

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198758

Luminaire Tested: **XNV-AF-01-LED-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T2
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6055.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

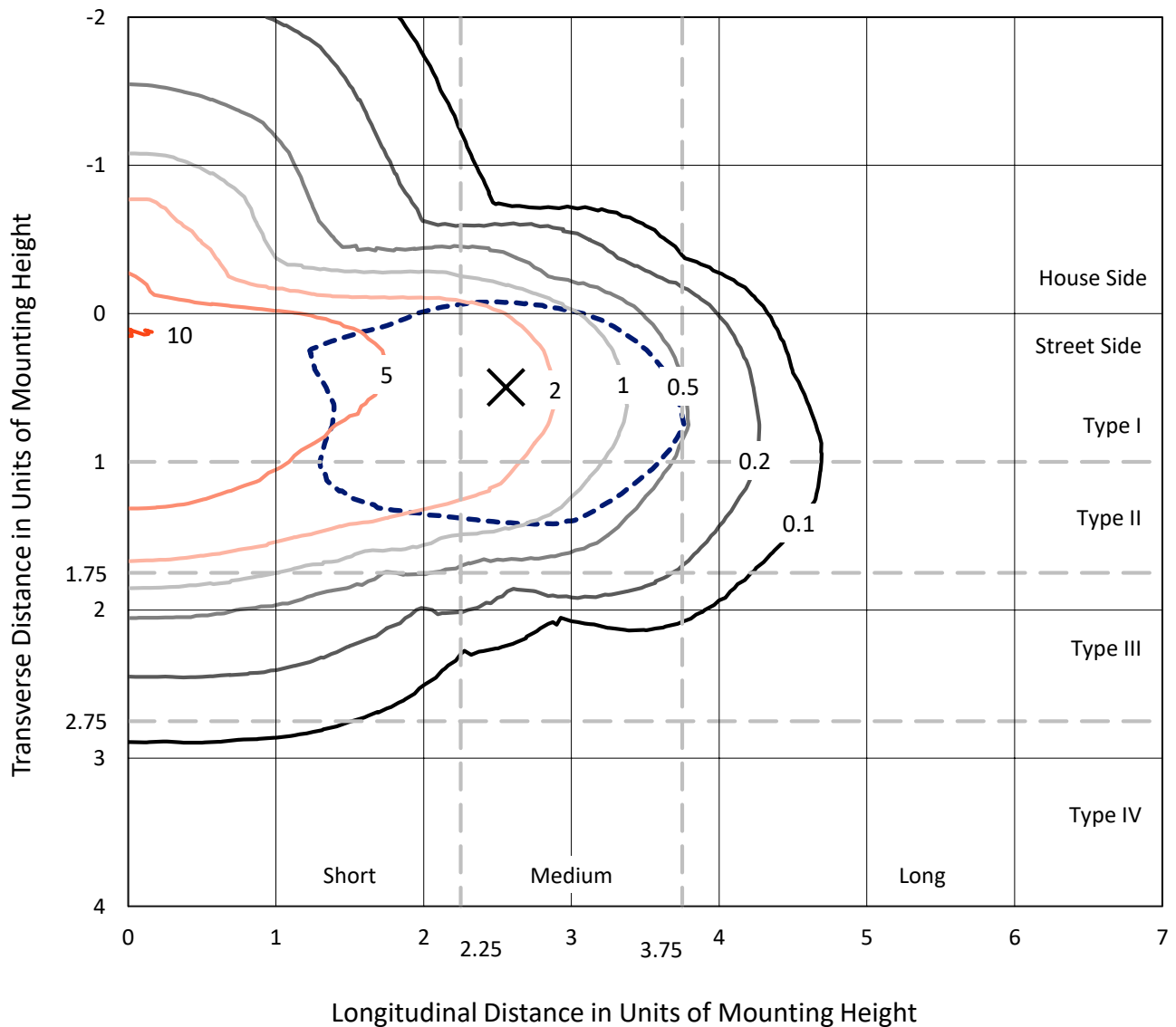


REPORT NUMBER: P198758

CATALOG NUMBER: XNV-AF-01-LED-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

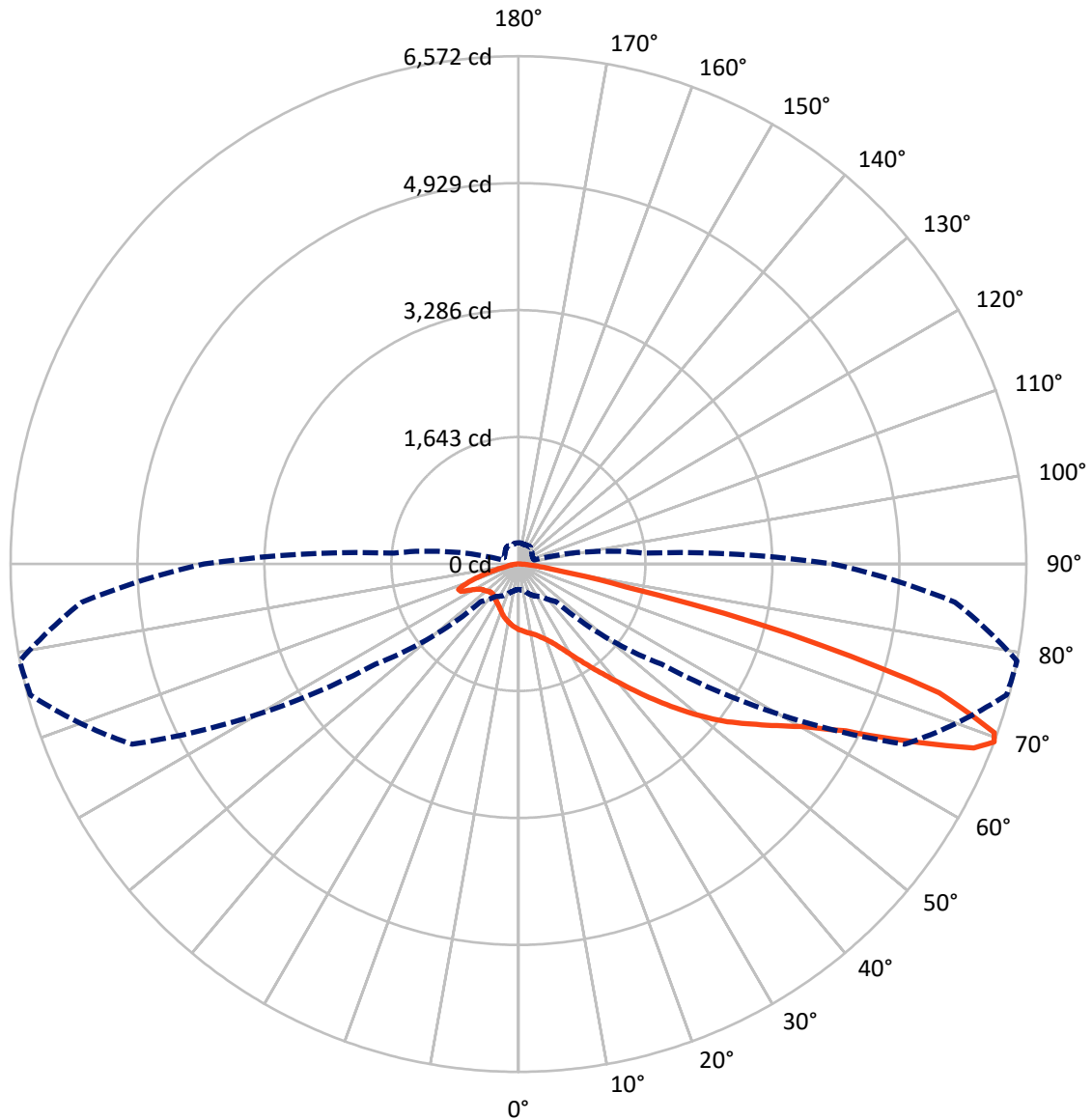


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P198758

CATALOG NUMBER: XNV-AF-01-LED-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P198758

CATALOG NUMBER: XNV-AF-01-LED-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1139.2	0.0	1139.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4916.7	0.0	4916.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	6055.9	0.0	6055.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.3
10°-20°	225.9	3.7
20°-30°	373.2	6.2
30°-40°	604.4	10.0
40°-50°	965.5	15.9
50°-60°	1382.6	22.8
60°-70°	1540.5	25.4
70°-80°	770.7	12.7
80°-90°	114.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6055.9	100.0
0°-180°	6055.9	100.0

Coefficient of Utilization



REPORT NUMBER: P198758

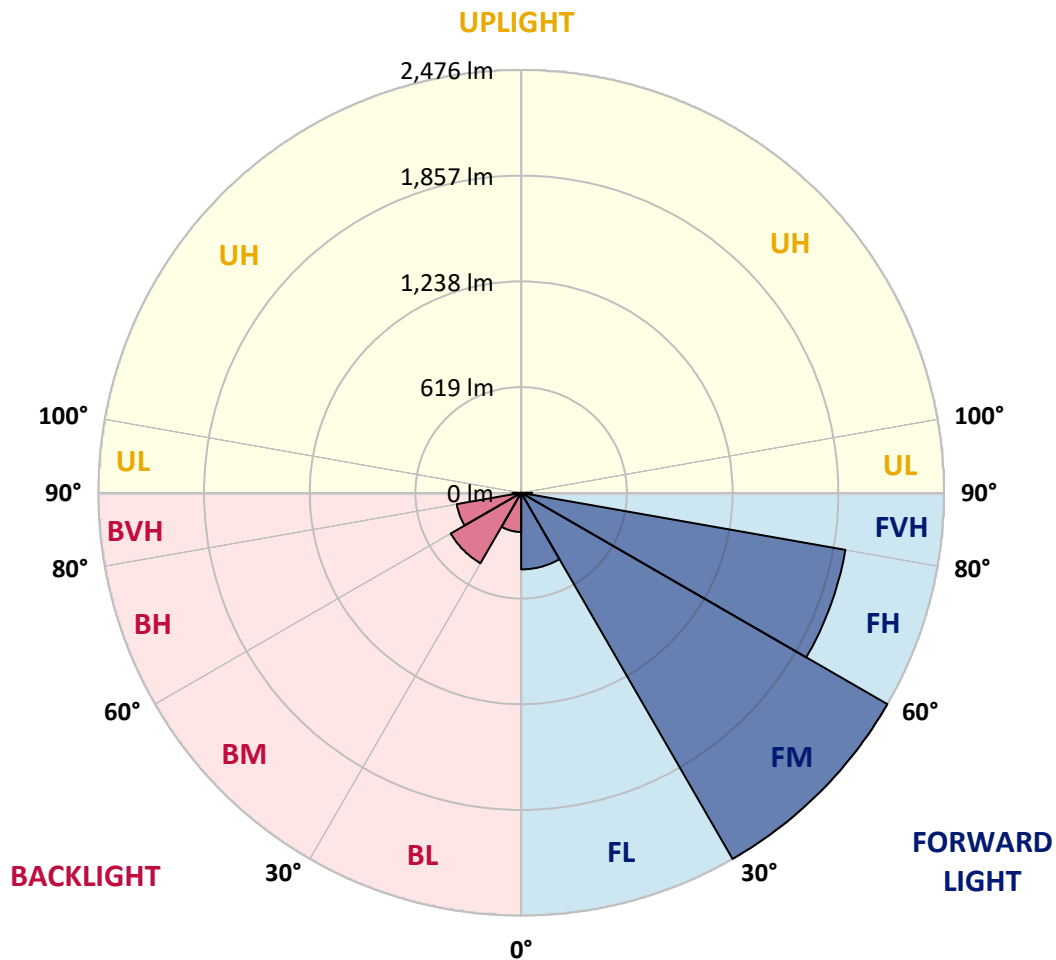
CATALOG NUMBER: XNV-AF-01-LED-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.4	7.4			
FM (30°-60°)	2476.3	40.9			
FH (60°-80°)	1928.1	31.8			G2/5000
FVH (80°-90°)	63.9	1.1			G1/100
BL (0°-30°)	229.5	3.8	B1/500		
BM (30°-60°)	476.2	7.9	B1/1000		
BH (60°-80°)	383.0	6.3	B1/500		G1/500
BVH (80°-90°)	50.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P198758

CATALOG NUMBER: XNV-AF-01-LED-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9
2.5°	933.0	931.1	930.7	924.7	921.6	914.8	899.0	882.7	867.7	859.7	851.4
5°	1011.1	1007.1	1005.2	995.2	986.5	971.5	946.5	920.8	893.9	879.9	863.3
7.5°	1058.2	1058.7	1058.7	1050.7	1042.0	1023.8	992.1	956.8	916.8	898.6	872.4
10°	1062.2	1062.5	1068.6	1070.5	1072.5	1062.9	1033.7	989.3	937.7	914.0	879.9
12.5°	1023.0	1025.7	1035.6	1050.0	1070.1	1080.4	1067.8	1024.2	964.7	935.8	894.2
15°	970.3	973.0	985.7	1007.5	1040.0	1074.5	1092.3	1064.2	1000.0	965.9	915.2
17.5°	944.5	947.7	956.4	973.8	1005.6	1051.9	1105.4	1106.9	1041.6	1002.4	940.2
20°	932.2	934.6	945.7	959.9	984.2	1028.5	1106.5	1152.1	1091.1	1045.6	970.7
22.5°	960.3	961.2	966.7	974.7	990.8	1025.0	1105.8	1198.9	1152.9	1099.9	1009.9
25°	1042.8	1037.6	1033.7	1023.8	1027.8	1051.9	1118.5	1248.8	1232.1	1171.2	1062.2
27.5°	1140.3	1139.5	1129.1	1106.1	1091.5	1106.9	1154.5	1304.7	1329.2	1261.9	1130.8
30°	1248.8	1249.2	1238.5	1210.4	1180.7	1182.2	1212.0	1369.2	1445.3	1371.3	1215.2
32.5°	1362.5	1369.6	1349.8	1321.7	1285.6	1274.2	1294.3	1447.3	1579.6	1500.4	1313.0
35°	1498.4	1499.5	1477.8	1436.6	1400.5	1382.3	1400.9	1544.8	1734.5	1652.1	1432.2
37.5°	1639.5	1640.2	1617.7	1564.9	1519.4	1507.5	1528.1	1663.2	1898.6	1824.8	1572.5
40°	1754.8	1763.1	1745.3	1695.7	1649.7	1642.7	1672.3	1805.0	2108.1	2029.3	1739.3
42.5°	1885.5	1895.0	1873.6	1822.1	1785.7	1783.2	1829.6	1966.7	2316.6	2265.8	1928.3
45°	2032.8	2046.3	2016.6	1958.7	1927.9	1980.1	1982.9	2145.7	2556.7	2530.5	2141.0
47.5°	2193.7	2204.8	2180.6	2118.4	2084.8	2160.5	2133.1	2339.5	2816.1	2814.1	2371.2
50°	2317.7	2330.0	2332.3	2305.0	2269.8	2279.2	2298.0	2543.2	3074.9	3105.8	2609.3
52.5°	2295.1	2307.1	2360.5	2432.2	2488.8	2464.3	2486.9	2759.5	3324.8	3390.2	2835.5
55°	2112.9	2119.2	2219.5	2389.8	2631.1	2748.4	2750.0	2994.8	3562.5	3654.1	3050.2
57.5°	1784.4	1785.3	1915.6	2166.8	2548.3	2932.6	3165.2	3290.3	3810.6	3945.6	3316.5
60°	1262.6	1265.8	1417.6	1746.0	2251.5	2910.4	3611.6	3819.3	4097.8	4273.3	3659.6
62.5°	749.6	756.7	871.2	1134.7	1672.3	2625.2	3875.6	4760.2	4520.9	4753.9	4208.7
65°	487.7	493.7	562.2	694.5	988.1	1910.1	3788.8	5671.4	5321.6	5509.8	4997.9
67.5°	375.6	380.3	434.2	514.2	606.2	1032.5	3029.3	5862.4	6296.3	6354.9	5664.0
69°	330.0	334.0	373.6	450.5	510.2	683.4	2257.4	5515.8	6539.9	6572.0	5672.3
70°	305.9	309.0	346.3	412.9	468.7	545.5	1727.8	5113.2	6450.8	6532.8	5508.6
72.5°	252.0	254.7	281.3	332.4	383.1	388.6	765.5	3733.7	5431.8	5694.1	4661.6
75°	210.4	212.0	229.3	266.7	310.3	309.4	391.1	2114.8	3314.6	3627.2	2878.4
77.5°	175.5	176.7	188.2	211.1	244.9	243.7	275.4	912.8	1463.5	1412.0	990.8
80°	154.9	155.7	161.6	167.6	188.9	187.8	204.1	419.2	595.5	550.3	374.8
82.5°	117.6	119.3	149.4	152.1	146.6	141.5	142.2	244.1	305.0	277.7	201.2
85°	66.6	67.0	95.9	112.1	127.6	95.9	92.3	126.0	150.6	132.0	88.0
87.5°	29.7	30.9	45.9	53.1	68.9	56.3	52.7	53.5	65.0	53.9	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198758

CATALOG NUMBER: XNV-AF-01-LED-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9
2.5°	843.5	836.8	820.9	804.7	788.4	778.2	767.4	757.5	753.5	753.2	745.6
5°	847.1	831.2	795.1	755.6	717.9	688.5	664.0	648.1	632.7	629.9	623.2
7.5°	848.2	822.5	763.8	700.5	643.0	602.6	578.1	567.3	559.9	557.8	555.5
10°	847.8	811.4	729.0	642.2	576.8	546.4	537.3	539.6	542.8	544.4	544.4
12.5°	854.2	806.3	694.2	587.6	534.1	519.5	526.5	538.8	548.3	552.3	553.1
15°	865.7	803.1	655.7	540.0	503.9	507.5	525.0	542.8	556.3	562.2	563.7
17.5°	879.9	798.7	611.3	500.7	486.5	498.8	521.4	544.0	560.2	567.7	569.0
20°	895.8	792.4	565.4	471.5	471.1	486.5	509.1	534.5	551.9	560.2	559.9
22.5°	917.2	786.4	522.6	450.1	454.0	468.3	486.9	509.9	526.1	533.7	532.0
25°	945.7	780.9	484.2	431.1	434.7	444.2	457.2	474.6	486.1	490.1	487.3
27.5°	984.2	776.5	454.0	413.6	413.3	417.6	425.5	435.1	440.6	439.4	435.1
30°	1031.2	772.2	431.9	398.1	392.6	392.2	395.8	401.3	404.9	397.8	394.2
32.5°	1084.0	764.7	412.0	384.7	374.8	371.2	372.9	380.3	395.0	387.9	385.1
35°	1146.2	756.0	392.2	370.0	362.5	355.8	357.0	373.2	417.6	412.5	409.7
37.5°	1221.1	748.0	374.0	354.1	353.8	345.5	344.7	364.1	423.5	412.5	410.1
40°	1311.0	746.4	357.7	336.8	343.1	339.9	337.2	349.0	390.7	368.1	363.7
42.5°	1419.5	753.5	345.9	320.1	330.8	338.4	333.2	335.9	353.0	332.8	329.2
45°	1546.3	772.9	337.2	305.5	317.7	337.2	331.2	328.9	331.6	320.5	318.1
47.5°	1694.1	807.4	331.2	293.2	305.5	334.0	330.4	325.7	324.5	318.1	316.6
50°	1852.2	853.8	327.2	282.1	294.4	328.5	330.0	323.3	321.3	318.5	317.7
52.5°	2009.1	904.1	322.5	272.6	285.3	321.7	330.4	320.9	318.1	316.6	315.8
55°	2165.2	956.4	313.7	264.2	278.5	313.7	330.0	317.7	314.6	314.6	314.6
57.5°	2367.6	1036.0	302.3	257.5	269.9	303.5	324.9	314.1	309.9	310.3	310.6
60°	2660.0	1169.5	289.6	250.0	258.3	291.6	316.9	307.8	302.7	304.2	304.6
62.5°	3148.5	1402.9	272.2	239.3	246.4	279.0	306.7	299.1	294.4	297.2	297.6
65°	3799.9	1685.4	249.2	225.9	234.2	264.6	293.6	288.8	283.7	290.4	290.0
67.5°	4197.3	1768.2	225.0	211.5	222.3	249.6	277.3	275.4	271.8	283.7	282.8
69°	4066.9	1618.4	211.1	202.4	213.9	239.3	267.0	266.3	263.5	275.0	274.2
70°	3864.4	1478.6	202.4	196.5	209.6	232.9	260.3	260.3	257.5	267.4	265.5
72.5°	3104.1	1096.7	182.3	181.5	194.6	215.5	242.0	244.1	242.4	246.0	244.1
75°	1822.5	660.8	162.4	164.8	176.3	196.9	221.9	223.4	221.9	221.5	221.9
77.5°	631.9	296.3	143.4	147.0	156.9	177.9	199.7	202.9	200.5	197.7	198.5
80°	247.2	172.4	122.9	128.0	136.3	156.5	177.5	179.4	175.9	175.5	172.4
82.5°	148.5	105.0	95.4	103.8	114.1	135.8	153.3	152.5	149.8	166.0	145.4
85°	64.5	58.2	69.8	78.1	83.2	101.8	129.5	126.0	119.3	105.0	102.6
87.5°	26.2	30.1	38.5	46.3	49.9	65.8	88.8	85.6	86.7	71.3	70.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)