

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: P271260

Luminaire Tested: **XNV-AF-01-LED-U-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271260
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-T2-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641.6 lumens
Efficiency: N/A
Efficacy: 85.5 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 - G1

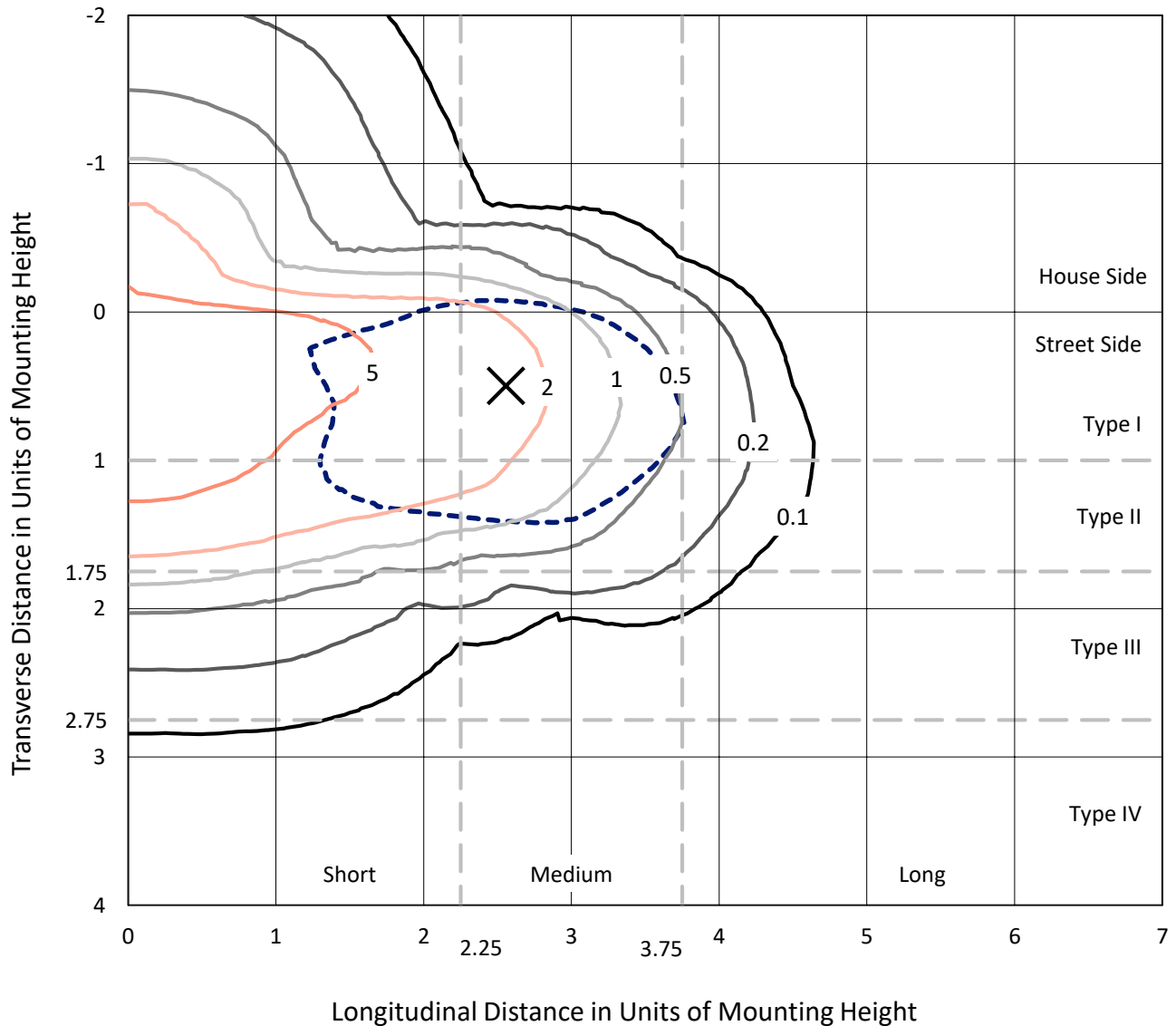
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

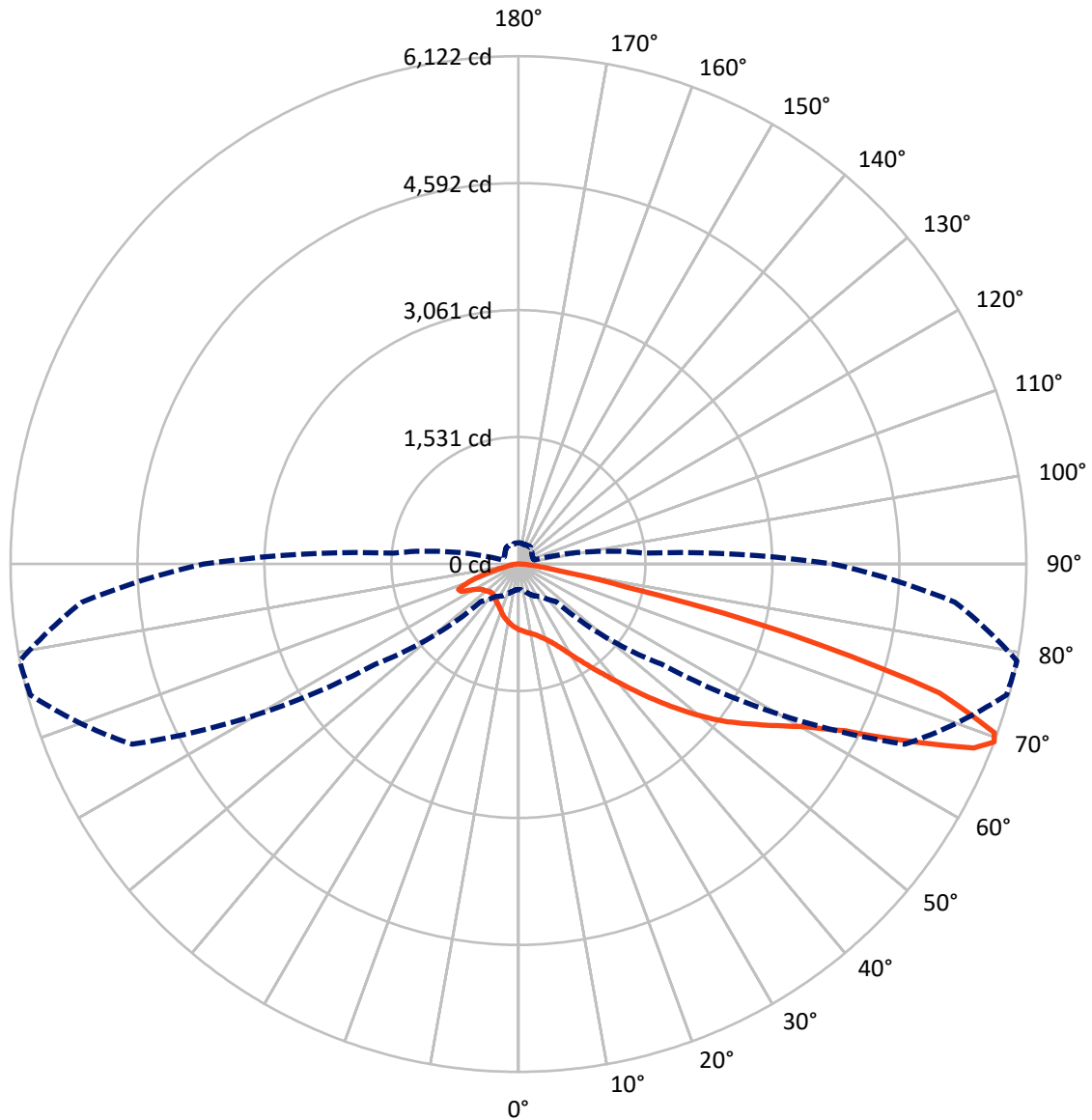
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.3	0.0	1061.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4580.3	0.0	4580.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	5641.6	0.0	5641.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.3
10°-20°	210.4	3.7
20°-30°	347.7	6.2
30°-40°	563.0	10.0
40°-50°	899.4	15.9
50°-60°	1288.1	22.8
60°-70°	1435.1	25.4
70°-80°	717.9	12.7
80°-90°	106.5	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°	5641.6	100.0
0°-180°	5641.6	100.0

Coefficient of Utilization



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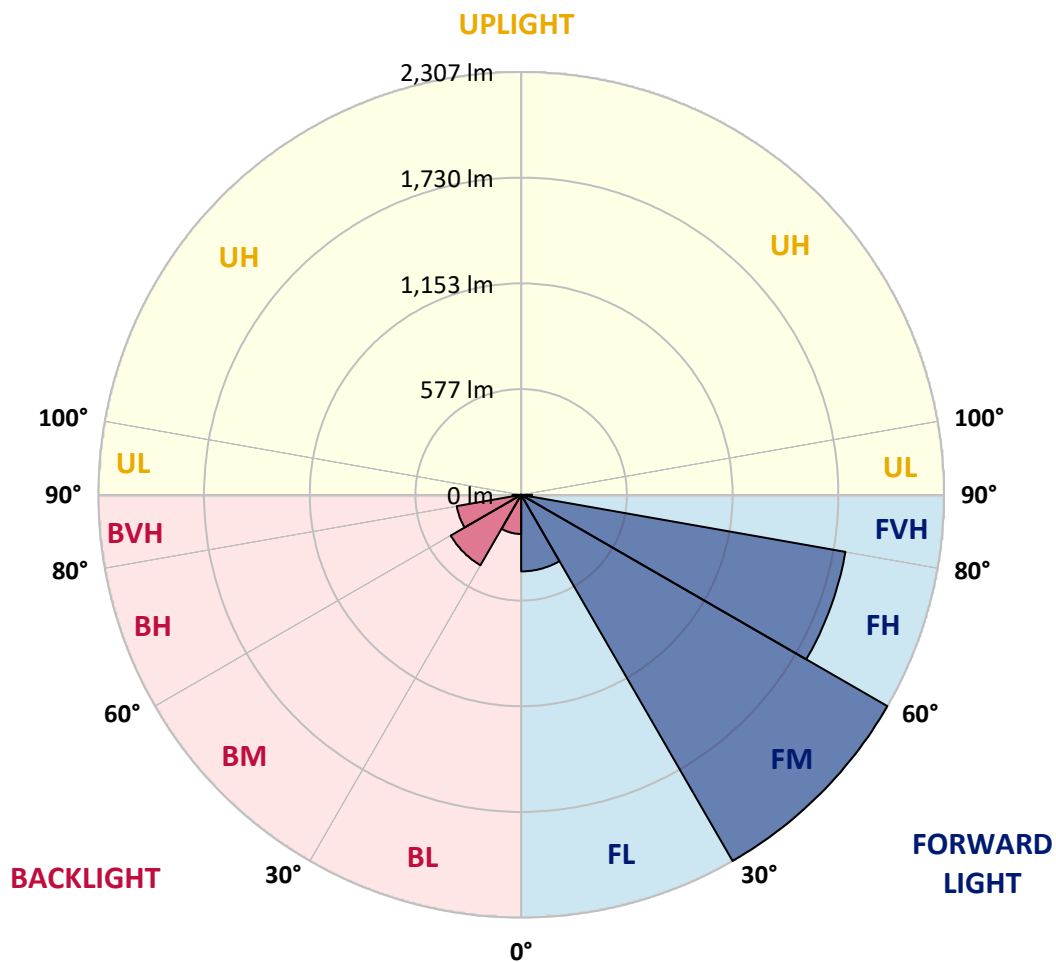
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.7	7.4			
FM (30°-60°)	2306.8	40.9			
FH (60°-80°)	1796.2	31.8			G1/1800
FVH (80°-90°)	59.5	1.1			G1/100
BL (0°-30°)	213.8	3.8	B1/500		
BM (30°-60°)	443.6	7.9	B1/1000		
BH (60°-80°)	356.8	6.3	B1/500		G1/500
BVH (80°-90°)	47.0	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	869.2	867.4	867.0	861.5	858.5	852.2	837.5	822.3	808.2	800.8	793.2
5°	942.0	938.2	936.4	927.1	919.1	905.0	881.7	857.7	832.6	819.8	804.3
7.5°	985.8	986.2	986.2	978.9	970.7	953.7	924.1	891.4	854.1	837.1	812.7
10°	989.6	989.9	995.4	997.3	999.2	990.2	963.0	921.7	873.6	851.5	819.8
12.5°	953.0	955.5	964.8	978.1	996.8	1006.6	994.8	954.1	898.8	871.7	833.0
15°	903.9	906.5	918.2	938.5	968.8	1000.9	1017.6	991.4	931.5	899.8	852.6
17.5°	879.9	882.9	890.9	907.2	936.8	980.0	1029.7	1031.3	970.3	933.8	875.8
20°	868.4	870.6	881.0	894.4	916.8	958.1	1030.8	1073.4	1016.4	974.0	904.2
22.5°	894.6	895.4	900.6	907.9	923.1	954.8	1030.1	1116.9	1074.1	1024.5	940.9
25°	971.4	966.7	963.0	953.7	957.5	980.0	1041.9	1163.3	1147.9	1091.0	989.6
27.5°	1062.2	1061.4	1051.8	1030.4	1016.8	1031.3	1075.5	1215.3	1238.3	1175.5	1053.4
30°	1163.3	1163.8	1153.8	1127.6	1099.9	1101.3	1129.0	1275.6	1346.4	1277.4	1132.0
32.5°	1269.2	1276.0	1257.4	1231.2	1197.7	1187.0	1205.9	1348.3	1471.6	1397.8	1223.1
35°	1395.8	1397.0	1376.7	1338.4	1304.7	1287.7	1305.1	1439.1	1615.8	1539.1	1334.3
37.5°	1527.3	1527.9	1506.9	1457.9	1415.4	1404.4	1423.5	1549.4	1768.7	1700.0	1464.9
40°	1634.6	1642.5	1625.8	1579.7	1536.9	1530.3	1557.9	1681.5	1964.0	1890.5	1620.4
42.5°	1756.5	1765.3	1745.3	1697.4	1663.5	1661.2	1704.4	1832.2	2158.1	2110.7	1796.3
45°	1893.7	1906.4	1878.6	1824.7	1796.0	1844.7	1847.3	1999.0	2381.6	2357.3	1994.5
47.5°	2043.6	2054.0	2031.4	1973.4	1942.1	2012.7	1987.2	2179.5	2623.5	2621.7	2209.0
50°	2159.2	2170.6	2172.8	2147.4	2114.5	2123.4	2140.8	2369.2	2864.4	2893.4	2430.9
52.5°	2138.1	2149.1	2199.1	2265.9	2318.5	2295.7	2316.8	2570.7	3097.4	3158.4	2641.6
55°	1968.4	1974.3	2067.5	2226.3	2451.0	2560.3	2561.8	2790.0	3318.8	3404.0	2841.6
57.5°	1662.4	1663.1	1784.6	2018.5	2374.0	2731.9	2948.6	3065.2	3549.8	3675.8	3089.6
60°	1176.3	1179.3	1320.6	1626.6	2097.5	2711.4	3364.6	3557.9	3817.4	3981.0	3409.2
62.5°	698.3	705.0	811.6	1057.0	1557.9	2445.5	3610.4	4434.6	4211.7	4428.6	3920.8
65°	454.4	459.9	523.7	647.0	920.6	1779.4	3529.6	5283.4	4957.6	5132.8	4656.1
67.5°	349.9	354.3	404.5	479.1	564.8	961.8	2822.0	5461.3	5865.6	5920.1	5276.5
69°	307.4	311.2	348.1	419.7	475.5	636.7	2103.0	5138.5	6092.5	6122.4	5284.2
70°	284.9	287.8	322.6	384.6	436.7	508.3	1609.7	4763.4	6009.4	6085.8	5131.7
72.5°	234.7	237.3	262.0	309.6	356.8	362.0	713.1	3478.2	5060.2	5304.5	4342.6
75°	196.0	197.4	213.6	248.4	289.0	288.3	364.4	1970.3	3087.7	3379.0	2681.4
77.5°	163.5	164.6	175.3	196.6	228.1	227.0	256.6	850.3	1363.4	1315.4	923.1
80°	144.3	145.0	150.6	156.1	176.1	174.9	190.1	390.6	554.8	512.7	349.1
82.5°	109.7	111.1	139.1	141.8	136.5	131.7	132.5	227.4	284.3	258.7	187.4
85°	62.1	62.4	89.3	104.5	118.8	89.3	86.0	117.4	140.2	122.9	81.9
87.5°	27.7	28.7	42.8	49.4	64.1	52.5	49.0	49.9	60.5	50.1	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	785.7	779.5	764.7	749.6	734.5	724.9	715.0	705.7	701.9	701.7	694.6
5°	789.2	774.3	740.7	703.8	668.8	641.5	618.7	603.8	589.5	586.9	580.6
7.5°	790.1	766.3	711.5	652.6	599.0	561.4	538.5	528.6	521.6	519.7	517.5
10°	789.8	755.8	679.1	598.4	537.4	509.0	500.4	502.7	505.7	507.2	507.2
12.5°	795.8	751.2	646.6	547.3	497.5	483.8	490.6	502.0	510.9	514.5	515.3
15°	806.5	748.2	610.8	503.1	469.5	472.8	489.0	505.7	518.2	523.7	525.1
17.5°	819.8	744.1	569.4	466.5	453.3	464.7	485.8	506.7	521.8	528.9	530.0
20°	834.4	738.1	526.6	439.2	438.8	453.3	474.2	497.9	514.1	521.8	521.6
22.5°	854.5	732.7	486.8	419.2	423.0	436.2	453.6	475.1	490.1	497.1	495.7
25°	881.0	727.4	450.9	401.5	404.9	413.8	425.9	442.1	452.8	456.6	454.0
27.5°	916.8	723.5	423.0	385.4	385.0	389.1	396.4	405.2	410.4	409.3	405.2
30°	960.7	719.4	402.4	370.9	365.8	365.4	368.8	373.9	377.2	370.6	367.2
32.5°	1009.9	712.4	383.8	358.3	349.1	345.8	347.4	354.3	367.9	361.4	358.8
35°	1067.7	704.2	365.4	344.7	337.8	331.5	332.6	347.6	389.1	384.2	381.6
37.5°	1137.6	696.8	348.5	329.9	329.6	321.9	321.1	339.2	394.5	384.2	382.0
40°	1221.2	695.4	333.4	313.7	319.6	316.7	314.0	325.1	364.0	342.9	338.8
42.5°	1322.5	701.9	322.2	298.1	308.2	315.1	310.5	313.0	328.9	310.1	306.7
45°	1440.5	720.1	314.0	284.6	296.0	314.0	308.6	306.3	308.9	298.5	296.4
47.5°	1578.2	752.2	308.6	273.2	284.6	311.2	307.8	303.4	302.3	296.4	295.0
50°	1725.5	795.4	304.9	262.8	274.3	306.0	307.4	301.2	299.3	296.7	296.0
52.5°	1871.6	842.3	300.5	254.0	265.8	299.8	307.8	299.0	296.4	295.0	294.1
55°	2017.1	890.9	292.3	246.1	259.5	292.3	307.4	296.0	293.0	293.0	293.0
57.5°	2205.7	965.1	281.6	239.8	251.3	282.7	302.6	292.7	288.6	289.0	289.3
60°	2478.1	1089.6	269.9	232.9	240.7	271.6	295.3	286.7	282.0	283.4	283.9
62.5°	2933.1	1306.9	253.5	222.9	229.5	259.8	285.8	278.7	274.3	276.8	277.1
65°	3540.0	1570.1	232.1	210.4	218.1	246.6	273.5	269.0	264.3	270.5	270.2
67.5°	3910.1	1647.2	209.7	197.1	207.1	232.5	258.4	256.6	253.2	264.3	263.6
69°	3788.6	1507.7	196.6	188.6	199.3	222.9	248.8	248.0	245.4	256.1	255.4
70°	3600.0	1377.5	188.6	183.1	195.2	217.0	242.5	242.5	239.8	249.1	247.4
72.5°	2891.7	1021.6	169.8	169.1	181.2	200.9	225.6	227.4	225.8	229.2	227.4
75°	1697.7	615.7	151.4	153.5	164.2	183.4	206.7	208.1	206.7	206.3	206.7
77.5°	588.7	276.0	133.6	136.9	146.2	165.6	185.9	189.0	186.8	184.2	185.0
80°	230.3	160.5	114.4	119.3	127.0	145.7	165.4	167.3	163.9	163.5	160.5
82.5°	138.3	97.8	88.9	96.7	106.3	126.7	142.8	142.1	139.4	154.7	135.5
85°	60.1	54.3	64.9	72.8	77.6	94.9	120.7	117.4	111.1	97.8	95.6
87.5°	24.3	28.0	35.8	43.2	46.5	61.3	82.6	79.7	80.8	66.5	66.0
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)