

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: P199262

Luminaire Tested: **XNV-AF-01-LED-U-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-8030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5020 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

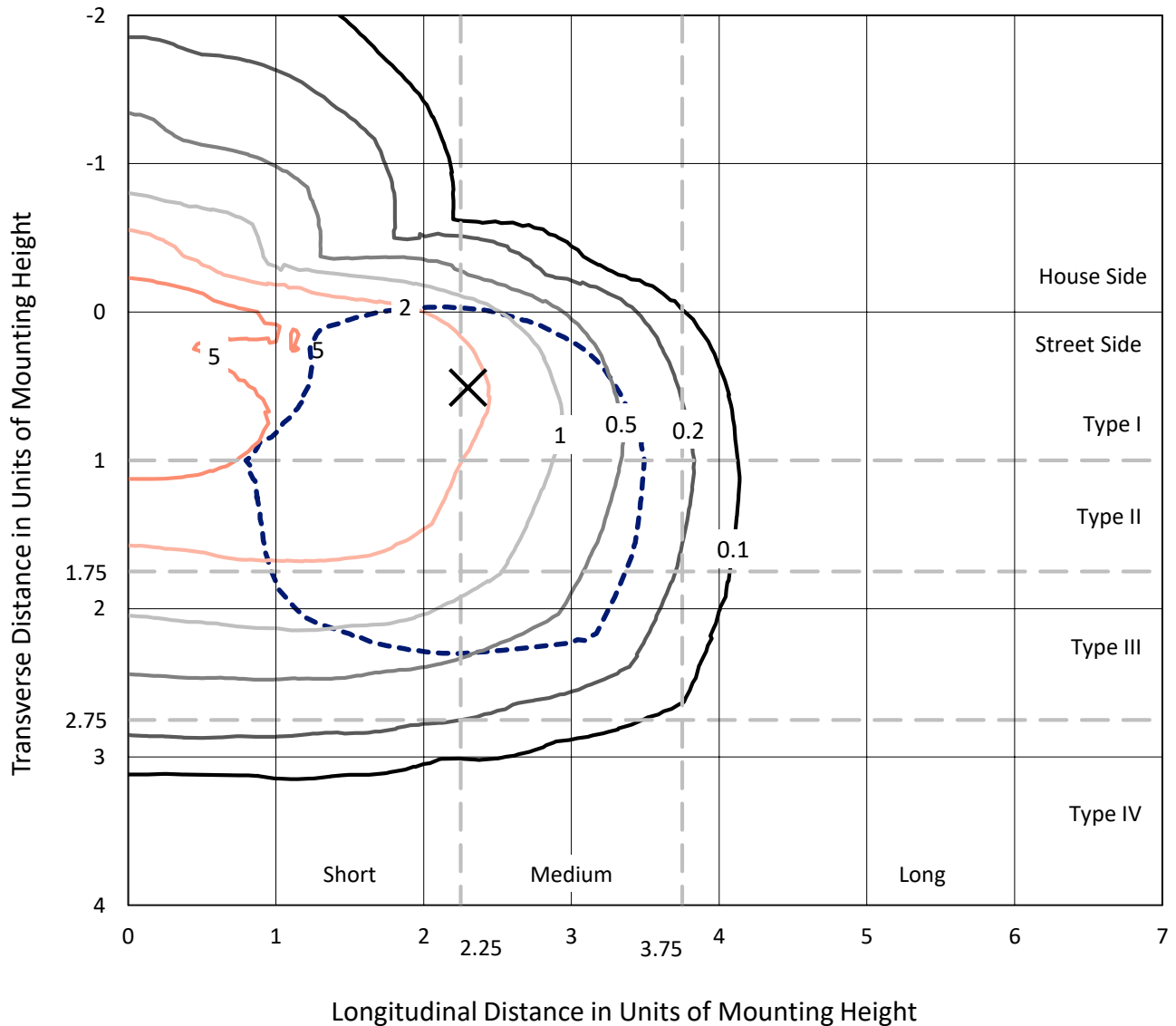
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

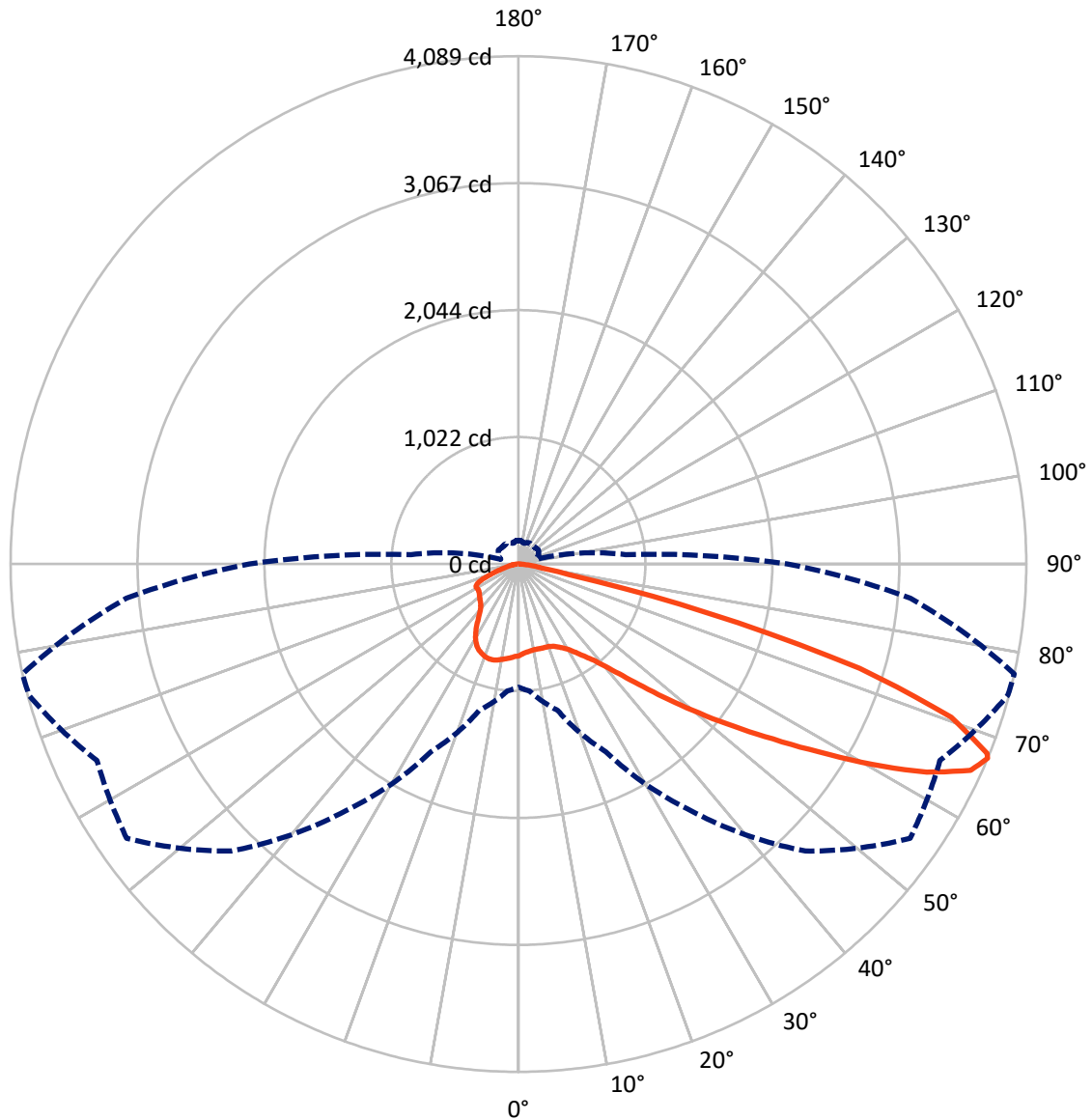
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	862.7	0.0	862.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4157.3	0.0	4157.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	5020.0	0.0	5020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.3
10°-20°	182.2	3.6
20°-30°	309.6	6.2
30°-40°	495.3	9.9
40°-50°	762.6	15.2
50°-60°	1058.0	21.1
60°-70°	1411.3	28.1
70°-80°	671.6	13.4
80°-90°	63.6	1.3
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°	5020.0	100.0
0°-180°	5020.0	100.0



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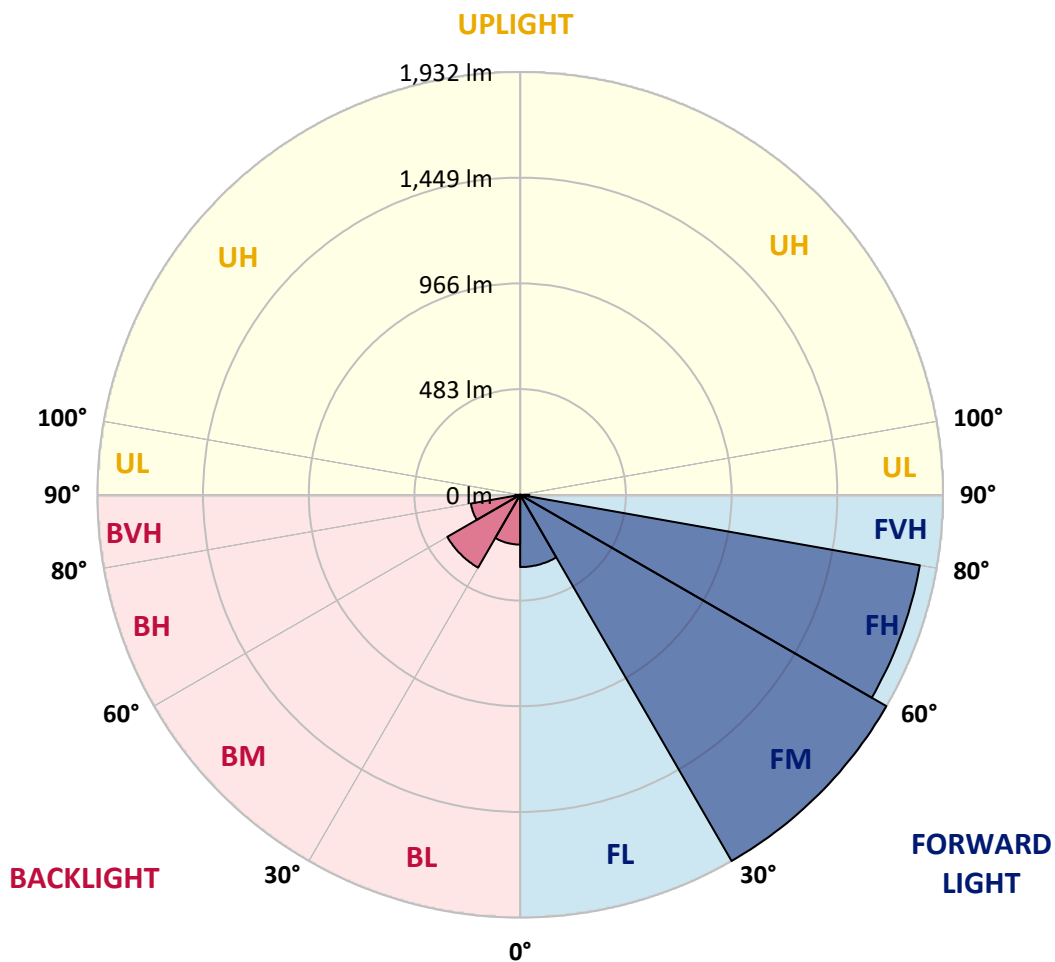
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.1	6.6			
FM	(30°-60°)	1931.8	38.5			
FH	(60°-80°)	1854.2	36.9			G2/5000
FVH	(80°-90°)	41.3	0.8			G1/100
BL	(0°-30°)	227.5	4.5	B1/500		
BM	(30°-60°)	384.1	7.7	B1/1000		
BH	(60°-80°)	228.7	4.6	B1/500		G1/500
BVH	(80°-90°)	22.3	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8
2.5°	662.5	665.6	665.9	674.9	678.9	689.2	700.3	710.3	719.0	722.1	727.6
5°	596.1	596.1	597.0	602.9	614.4	630.8	654.1	679.5	706.2	712.7	729.2
7.5°	561.3	561.9	562.6	568.5	577.5	592.0	615.3	650.1	694.4	705.3	734.2
10°	564.4	563.5	560.4	559.2	562.9	572.2	592.4	628.0	684.5	701.3	743.2
12.5°	613.1	611.3	601.0	586.1	572.5	569.1	583.0	616.9	679.9	701.3	758.4
15°	696.6	697.9	677.7	646.7	611.0	586.8	584.9	612.8	678.3	703.1	776.0
17.5°	805.2	805.8	777.9	732.9	673.7	623.7	597.6	612.8	678.3	705.0	793.1
20°	920.6	916.3	884.7	828.2	751.2	674.9	620.9	616.6	680.2	707.8	809.2
22.5°	1019.6	1015.6	982.4	923.1	835.0	735.4	652.2	629.0	690.4	719.3	831.9
25°	1106.2	1108.7	1076.4	1009.7	918.5	803.7	699.1	657.5	711.8	740.1	859.8
27.5°	1211.4	1206.7	1169.5	1105.9	1004.4	874.4	757.7	693.5	737.3	765.2	894.0
30°	1333.0	1330.9	1280.6	1215.1	1099.1	953.5	815.8	732.3	770.5	799.6	936.8
32.5°	1480.7	1480.4	1426.4	1346.1	1205.5	1042.9	884.3	785.4	818.9	848.3	993.6
35°	1648.0	1647.7	1591.8	1485.7	1328.1	1141.9	965.0	849.9	878.8	909.8	1061.2
37.5°	1764.0	1762.2	1733.0	1630.0	1463.7	1257.0	1065.9	936.8	946.7	981.5	1142.8
40°	1786.4	1797.5	1822.7	1761.9	1611.7	1384.8	1167.0	1030.2	1039.5	1084.2	1245.5
42.5°	1762.2	1776.7	1860.2	1877.3	1759.7	1539.7	1293.6	1159.6	1171.4	1226.9	1366.2
45°	1741.1	1753.8	1858.4	1941.2	1905.8	1708.5	1451.6	1317.5	1339.9	1408.7	1504.0
47.5°	1705.1	1716.9	1821.7	1952.7	1989.3	1871.1	1641.8	1507.4	1545.9	1629.4	1661.0
50°	1703.2	1708.5	1771.8	1914.2	2018.2	1994.6	1852.5	1729.6	1788.5	1884.7	1834.8
52.5°	1656.0	1693.0	1750.4	1852.8	2018.8	2066.6	2060.0	1973.2	2064.1	2170.5	2025.3
55°	1367.5	1410.0	1679.0	1822.7	2015.1	2128.3	2249.6	2232.3	2374.4	2486.4	2238.8
57.5°	1276.9	1294.9	1473.0	1831.7	2046.1	2230.4	2439.2	2510.6	2729.4	2851.6	2494.8
60°	1252.0	1271.0	1431.7	1836.0	2130.2	2416.3	2696.5	2824.9	3146.7	3276.4	2785.5
62.5°	1224.4	1248.9	1434.8	1840.0	2277.9	2691.2	3037.8	3165.9	3575.2	3691.0	3058.0
65°	1143.7	1176.3	1377.4	1814.6	2439.5	3036.2	3489.0	3521.5	3929.3	4002.8	3222.4
67°	990.8	1026.5	1219.8	1667.5	2424.6	3268.6	3849.8	3744.0	4079.8	4088.8	3169.0
67.5°	942.4	979.3	1166.4	1606.4	2382.1	3299.1	3913.7	3774.7	4078.5	4068.6	3119.4
70°	634.6	676.1	826.0	1179.4	1910.8	3070.4	3898.2	3680.1	3811.0	3697.2	2680.0
72.5°	314.9	316.2	412.1	646.0	1157.7	2202.2	3251.9	3148.3	3089.3	2874.3	1966.6
75°	151.7	154.5	194.6	285.5	488.1	1136.9	2217.7	2124.3	1808.7	1566.1	984.3
77.5°	115.7	118.5	151.1	185.9	203.6	370.8	1098.4	887.8	524.1	418.6	277.4
80°	89.4	94.6	127.5	142.7	134.7	148.6	345.4	271.8	203.9	187.1	137.5
82.5°	69.8	72.9	108.3	108.3	93.1	99.6	160.7	157.0	126.6	114.2	73.9
85°	49.3	55.5	87.2	80.7	61.1	61.7	96.2	92.2	65.2	52.4	28.9
87.5°	22.0	28.2	62.1	52.8	32.6	25.1	39.4	33.8	25.8	19.9	13.3
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°	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8	738.8
2.5°	733.8	738.8	746.6	751.2	757.4	759.9	762.4	766.7	770.2	769.2	767.7
5°	740.7	749.1	758.7	761.8	761.8	758.7	756.8	757.1	756.2	755.6	753.7
7.5°	750.6	762.1	768.9	765.8	756.2	744.1	732.6	725.8	719.3	715.2	716.5
10°	764.6	777.3	777.6	763.9	741.0	714.6	692.0	677.4	663.4	657.2	659.1
12.5°	784.7	797.5	786.6	757.1	716.8	675.5	633.9	603.8	576.8	570.3	568.5
15°	806.5	816.4	792.2	742.5	682.0	614.1	544.3	499.3	469.2	463.9	462.0
17.5°	825.4	831.0	789.4	716.5	627.1	520.1	438.8	408.3	402.1	405.2	405.2
20°	842.1	840.3	777.3	676.1	540.5	415.8	368.6	368.3	376.7	384.5	385.1
22.5°	863.2	848.7	758.1	616.2	437.2	346.9	338.8	346.9	356.2	364.9	365.8
25°	888.4	858.0	732.3	530.9	351.6	314.9	318.4	325.2	331.1	337.9	338.2
27.5°	913.5	865.1	696.0	430.7	305.0	294.5	298.2	301.0	302.5	306.9	306.9
30°	942.7	870.7	643.6	345.0	283.6	276.5	274.3	273.1	274.3	280.2	280.5
32.5°	979.3	880.6	571.9	296.0	273.7	263.8	252.6	246.4	250.7	261.3	263.1
35°	1020.9	892.4	485.9	276.5	270.3	257.5	237.1	227.4	229.0	238.6	240.2
37.5°	1073.0	907.6	401.2	271.8	273.7	256.9	229.9	216.3	209.4	209.8	209.4
40°	1139.7	922.8	334.2	273.1	281.1	258.5	226.5	205.1	190.8	191.5	192.7
42.5°	1209.5	932.7	291.7	276.8	290.1	260.6	225.3	194.2	181.8	192.4	202.0
45°	1291.1	930.0	269.6	280.2	297.0	261.6	220.6	193.0	182.8	214.4	232.4
47.5°	1384.8	917.9	257.2	281.7	298.8	261.3	217.2	197.0	190.5	245.4	265.9
50°	1486.6	898.9	247.3	279.3	297.9	260.0	220.9	202.0	193.6	252.3	268.1
52.5°	1598.0	881.5	237.1	273.7	293.2	256.3	225.6	199.8	184.9	232.4	244.5
55°	1729.9	877.5	225.6	264.1	285.5	252.3	223.1	193.0	175.3	206.0	213.5
57.5°	1880.7	902.6	210.7	252.3	274.9	244.2	217.2	189.3	171.9	187.4	191.5
60°	2072.1	958.2	194.9	239.9	261.9	232.1	211.9	190.2	172.8	184.6	185.6
62.5°	2221.7	1008.1	180.6	224.7	244.5	217.5	206.3	191.1	175.6	188.3	186.8
65°	2276.0	983.6	162.9	202.0	220.0	201.4	198.6	191.8	175.6	190.5	187.1
67°	2164.6	866.7	146.1	179.4	196.7	187.1	191.1	189.3	172.5	190.2	184.3
67.5°	2111.6	825.4	141.8	175.6	190.5	182.8	189.3	188.0	171.6	189.6	182.8
70°	1741.4	592.0	119.8	147.4	159.5	161.0	177.8	180.0	164.1	178.1	165.7
72.5°	1239.0	370.5	103.3	114.2	128.8	137.8	162.3	169.1	154.2	154.8	144.6
75°	613.1	198.9	92.2	88.1	100.2	114.8	141.5	154.2	139.6	129.1	125.7
77.5°	207.0	112.6	77.9	71.1	77.9	92.2	117.3	134.7	123.2	109.2	107.1
80°	107.1	81.9	60.8	57.1	61.4	71.4	91.8	112.0	105.2	105.8	87.2
82.5°	66.7	50.0	43.8	43.4	46.5	54.6	67.6	90.9	90.3	77.3	56.2
85°	31.0	28.9	27.9	28.9	29.8	31.0	44.1	64.9	68.6	41.6	36.9
87.5°	13.0	12.7	11.2	12.1	13.3	13.0	17.7	27.6	38.5	26.1	23.9
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)