

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: McGRAW-EDISON

Report Number: P193189

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6028.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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: 25 FT

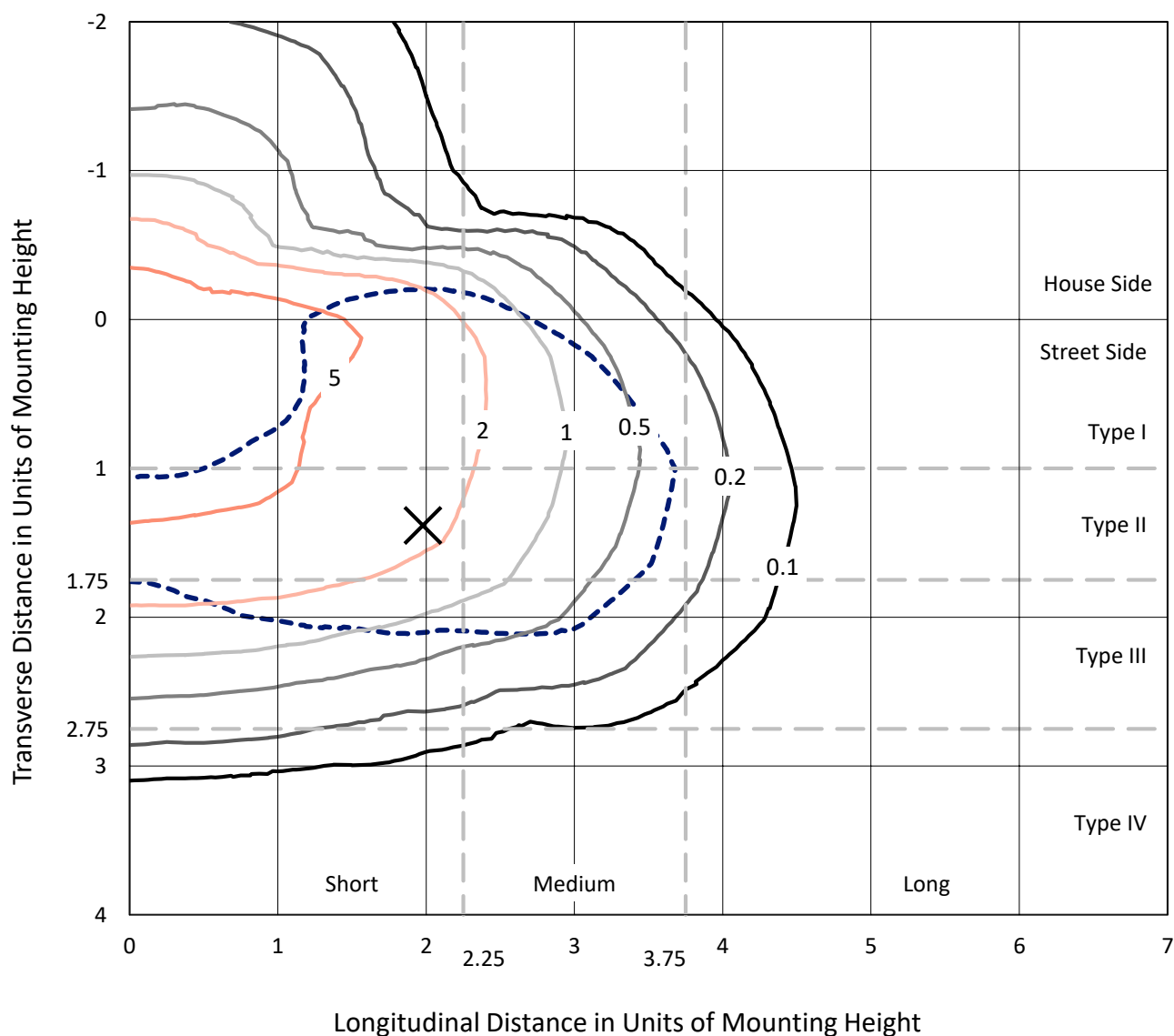


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

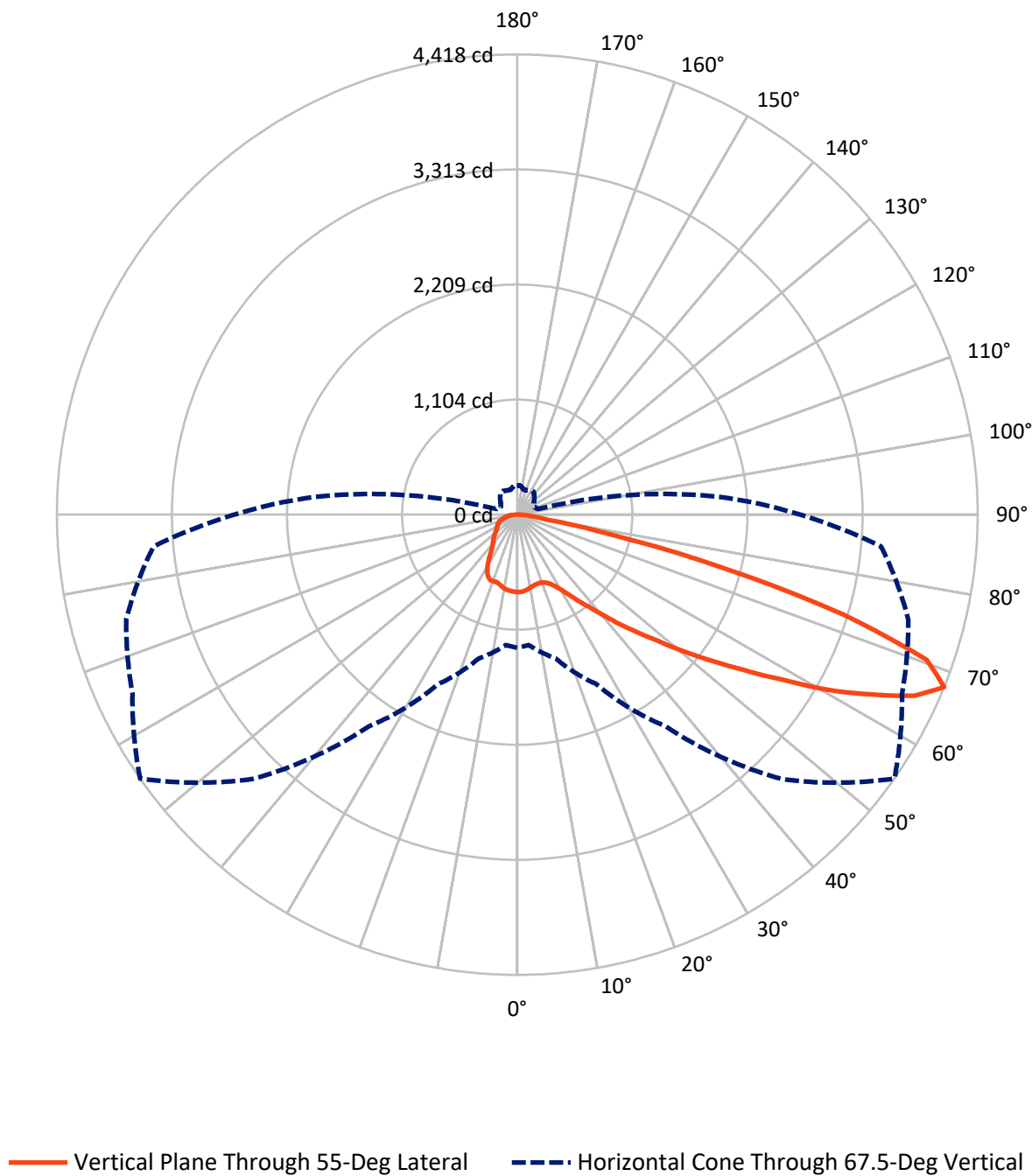


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.4	0.0	1302.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4726.6	0.0	4726.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	6028.9	0.0	6028.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.2
10°-20°	196.5	3.3
20°-30°	329.2	5.5
30°-40°	541.4	9.0
40°-50°	911.3	15.1
50°-60°	1434.3	23.8
60°-70°	1711.7	28.4
70°-80°	735.0	12.2
80°-90°	100.2	1.7
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°	6028.9	100.0
0°-180°	6028.9	100.0

Coefficient of Utilization



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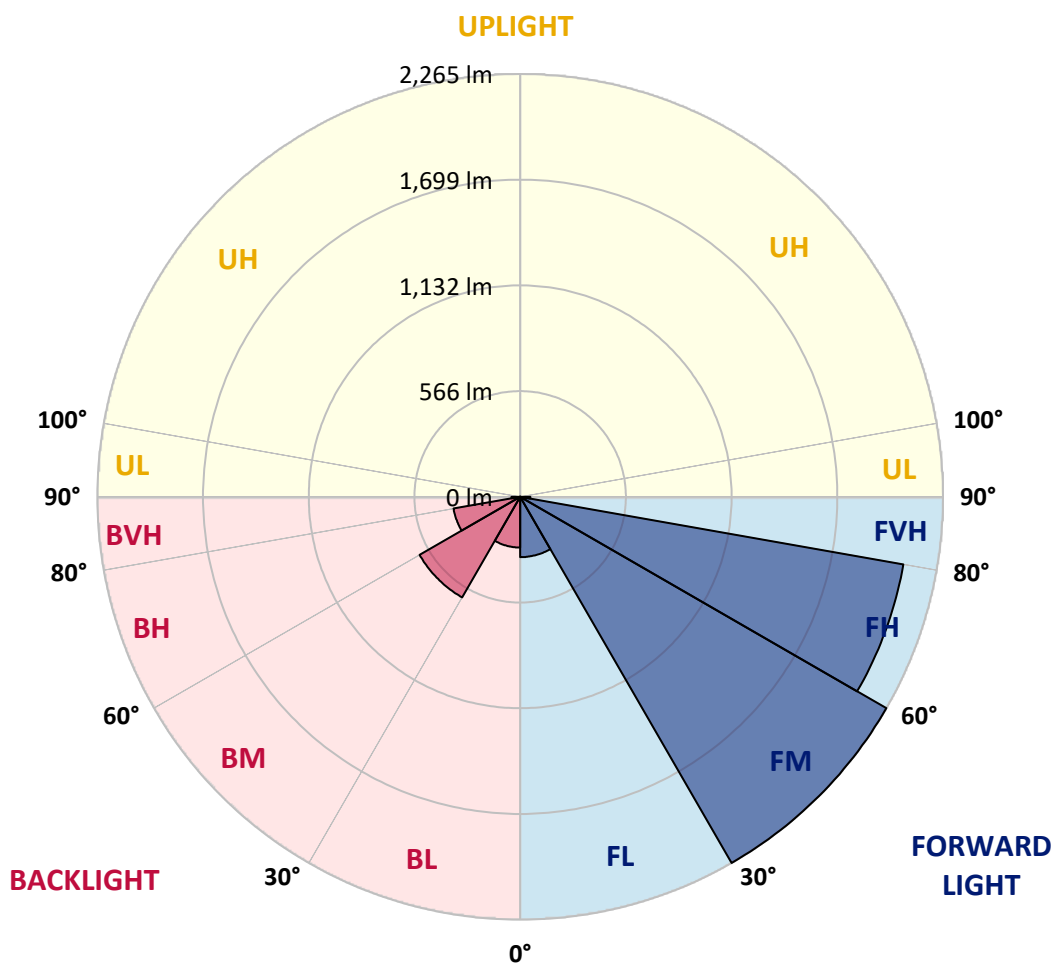
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.2	5.4			
FM	(30°-60°)	2264.9	37.6			
FH	(60°-80°)	2084.2	34.6			G2/5000
FVH	(80°-90°)	54.2	0.9			G1/100
BL	(0°-30°)	272.0	4.5	B1/500		
BM	(30°-60°)	622.0	10.3	B1/1000		
BH	(60°-80°)	362.4	6.0	B1/500		G1/500
BVH	(80°-90°)	46.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
2.5°	737.1	737.3	737.9	740.2	742.3	741.7	742.0	740.8	740.6	738.8	740.6
5°	727.6	728.5	728.9	732.7	735.0	735.6	734.7	733.2	731.5	729.8	730.6
7.5°	706.5	708.8	709.1	714.3	718.1	723.1	723.3	723.7	722.8	721.5	723.3
10°	693.0	693.7	693.4	697.2	700.1	705.6	708.8	714.3	716.6	717.2	718.4
12.5°	692.1	691.6	690.7	690.7	689.9	692.1	698.0	705.9	711.4	713.1	714.5
15°	701.6	701.2	698.2	693.9	688.5	686.7	691.6	700.4	707.6	711.4	712.8
17.5°	722.4	720.7	716.0	706.2	694.3	689.5	690.2	697.4	705.9	710.8	712.3
20°	760.9	760.9	751.0	732.4	711.1	700.1	694.8	699.1	707.4	714.0	716.0
22.5°	827.3	827.8	811.2	780.6	744.9	721.3	708.2	707.4	717.0	724.5	726.8
25°	921.4	919.0	895.7	852.0	797.6	758.6	735.9	730.6	738.8	747.3	750.2
27.5°	1030.9	1022.4	994.7	942.1	871.6	814.5	779.6	771.1	778.9	788.6	791.5
30°	1139.1	1130.4	1097.5	1039.8	961.6	889.4	839.2	825.6	836.6	850.2	852.0
32.5°	1247.5	1247.5	1210.8	1143.5	1058.1	978.8	918.8	902.5	920.7	937.3	941.2
35°	1377.1	1377.6	1342.1	1261.2	1169.5	1085.3	1019.2	1007.3	1034.9	1046.6	1055.6
37.5°	1536.4	1539.6	1493.9	1396.0	1295.6	1207.0	1128.4	1112.0	1139.8	1171.5	1200.6
40°	1708.5	1712.5	1662.2	1541.6	1441.1	1348.6	1263.5	1234.1	1280.1	1340.7	1378.2
42.5°	1872.7	1893.7	1845.1	1721.0	1613.0	1517.2	1431.0	1388.1	1445.8	1537.3	1569.8
45°	2110.1	2125.2	2040.4	1928.0	1826.4	1719.2	1605.1	1560.0	1640.6	1755.9	1762.7
47.5°	2268.1	2256.8	2213.7	2143.7	2079.4	1979.2	1807.4	1758.0	1865.2	2000.9	1963.3
50°	2352.4	2355.8	2349.9	2354.1	2356.4	2293.5	2055.6	1987.8	2115.6	2279.4	2193.1
52.5°	2430.9	2407.6	2426.8	2522.4	2637.7	2614.3	2325.5	2254.8	2384.0	2588.8	2435.9
55°	2429.2	2393.7	2456.2	2624.9	2875.0	2901.8	2628.7	2547.2	2668.0	2920.4	2693.3
57.5°	2343.3	2345.0	2441.4	2662.1	3040.4	3172.1	2980.4	2858.1	2969.1	3256.5	2928.2
60°	2225.1	2241.1	2380.0	2656.0	3172.9	3393.6	3411.9	3193.3	3264.0	3562.0	3122.8
62.5°	2034.3	2051.3	2242.8	2592.5	3152.7	3607.0	3802.2	3573.7	3572.4	3747.1	3179.9
65°	1733.5	1728.6	1929.7	2355.2	2984.2	3765.0	4189.8	3902.4	3804.9	3750.1	3065.2
67.5°	1278.4	1256.3	1428.9	1793.8	2480.4	3588.2	4417.8	4073.6	3884.0	3503.4	2714.5
70°	663.3	641.3	780.9	1047.5	1631.4	2800.5	4165.3	3985.0	3709.1	2936.8	2126.6
72.5°	283.6	279.8	336.6	459.6	789.2	1615.3	3266.1	3449.2	3182.5	2188.0	1462.1
75°	190.7	189.6	210.9	250.4	355.0	655.4	2043.9	2448.4	2328.5	1356.7	822.4
77.5°	149.6	148.3	160.7	180.0	230.1	258.6	907.1	1314.5	1216.6	590.5	359.9
80°	117.0	116.0	123.8	134.3	165.4	163.2	298.5	523.1	404.8	226.2	175.1
82.5°	92.4	92.4	98.8	99.0	117.4	111.2	155.8	230.3	202.1	131.8	107.2
85°	84.4	84.4	91.1	74.0	76.6	70.2	96.7	136.6	128.2	54.2	46.6
87.5°	42.5	41.3	76.6	65.5	41.6	37.2	47.2	66.1	71.0	30.0	23.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
2.5°	739.9	739.6	740.2	740.6	742.9	746.0	747.6	749.5	750.7	750.2
5°	731.2	731.8	734.1	735.9	739.9	745.1	748.1	750.4	752.5	751.6
7.5°	724.0	725.4	728.9	730.3	732.7	734.1	733.7	734.7	736.4	734.4
10°	719.8	721.5	724.2	722.2	716.6	708.8	701.6	697.7	698.9	697.4
12.5°	715.7	718.1	716.0	706.5	691.1	680.8	675.3	675.9	678.5	679.0
15°	713.5	714.3	705.6	687.6	671.8	670.3	673.2	672.7	672.9	672.9
17.5°	713.5	711.1	694.8	676.8	670.1	667.5	658.4	647.1	642.1	640.4
20°	717.2	711.1	691.3	679.4	664.9	642.3	618.5	597.5	588.3	585.6
22.5°	728.5	718.1	701.2	680.5	639.1	601.6	563.8	538.7	521.8	518.9
25°	751.6	739.9	720.7	665.1	598.4	544.8	501.7	473.7	456.9	454.5
27.5°	791.8	784.2	731.2	631.1	544.2	486.9	447.0	425.4	412.9	412.0
30°	852.3	848.5	725.9	580.6	477.6	430.7	411.5	398.9	389.6	389.3
32.5°	949.0	918.5	708.8	519.2	416.8	390.8	383.0	375.3	368.1	368.1
35°	1073.4	974.9	676.2	453.4	379.6	368.6	358.8	346.8	337.2	336.6
37.5°	1219.6	1009.9	617.7	400.4	362.3	353.8	339.2	321.4	304.7	301.7
40°	1367.2	1020.4	535.3	367.7	351.2	338.9	321.2	300.3	284.0	283.1
42.5°	1502.7	1000.3	447.9	345.4	340.2	323.9	305.2	286.6	273.7	273.4
45°	1616.2	948.2	374.4	324.1	328.5	310.1	293.6	278.4	268.4	266.5
47.5°	1723.0	874.5	323.0	301.7	316.9	302.5	288.6	274.3	264.7	263.2
50°	1847.0	795.0	286.8	279.8	306.6	299.9	292.7	277.8	261.7	260.0
52.5°	1997.4	726.2	258.6	260.6	298.9	303.4	303.0	287.7	259.7	257.5
55°	2165.1	650.0	237.3	244.8	295.5	309.9	305.7	297.0	261.4	258.0
57.5°	2330.2	560.8	222.5	232.9	290.9	309.2	293.3	280.7	265.6	260.6
60°	2454.0	441.2	211.1	222.5	280.7	299.7	279.6	263.0	264.7	260.9
62.5°	2462.0	341.0	197.4	213.5	265.3	290.1	270.5	255.1	268.4	265.0
65°	2317.4	257.8	184.3	202.6	248.7	284.0	261.7	250.7	276.3	272.6
67.5°	1951.1	207.4	173.2	191.6	232.0	271.1	253.9	246.6	283.3	276.7
70°	1408.6	176.8	162.5	178.2	217.2	256.5	246.9	239.4	264.4	253.9
72.5°	867.2	153.2	150.2	160.5	205.9	241.4	236.4	225.7	238.1	229.8
75°	433.0	132.8	136.6	143.0	189.9	224.2	218.9	208.2	210.0	208.2
77.5°	207.4	113.5	120.5	125.5	169.2	204.8	199.2	188.2	186.1	186.4
80°	131.3	94.9	101.6	105.1	151.1	182.0	176.5	165.4	188.7	175.1
82.5°	82.2	77.1	78.8	85.3	131.6	158.4	151.1	141.3	170.0	134.5
85°	45.5	53.9	56.2	61.7	101.3	132.5	125.2	112.6	101.1	99.3
87.5°	27.1	32.0	32.9	36.9	68.2	95.8	84.7	80.5	66.6	66.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)