

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: P194119

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5540 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

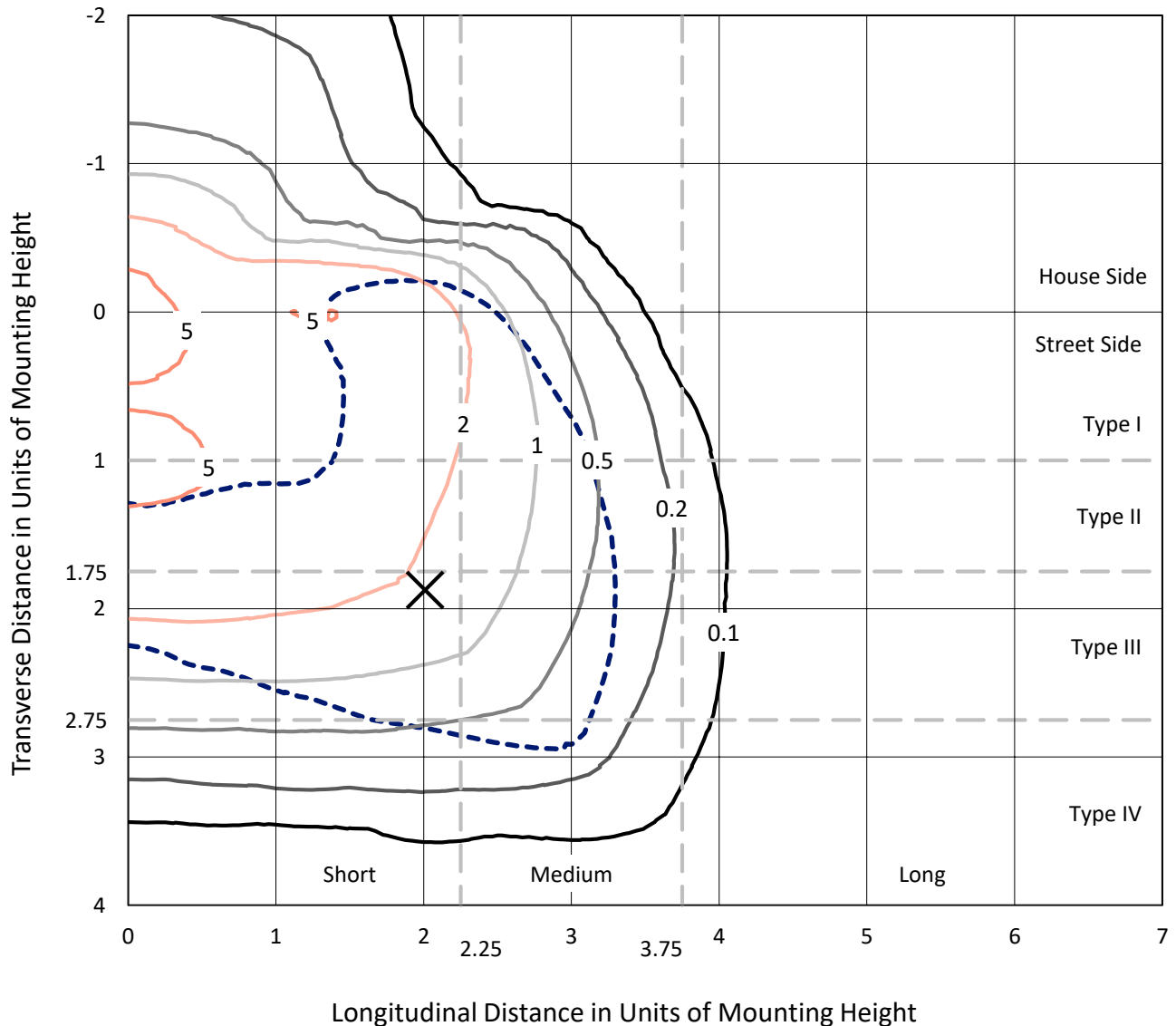


REPORT NUMBER: P194119

CATALOG NUMBER: GLEON-AF-01-LED-E1-T4W-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

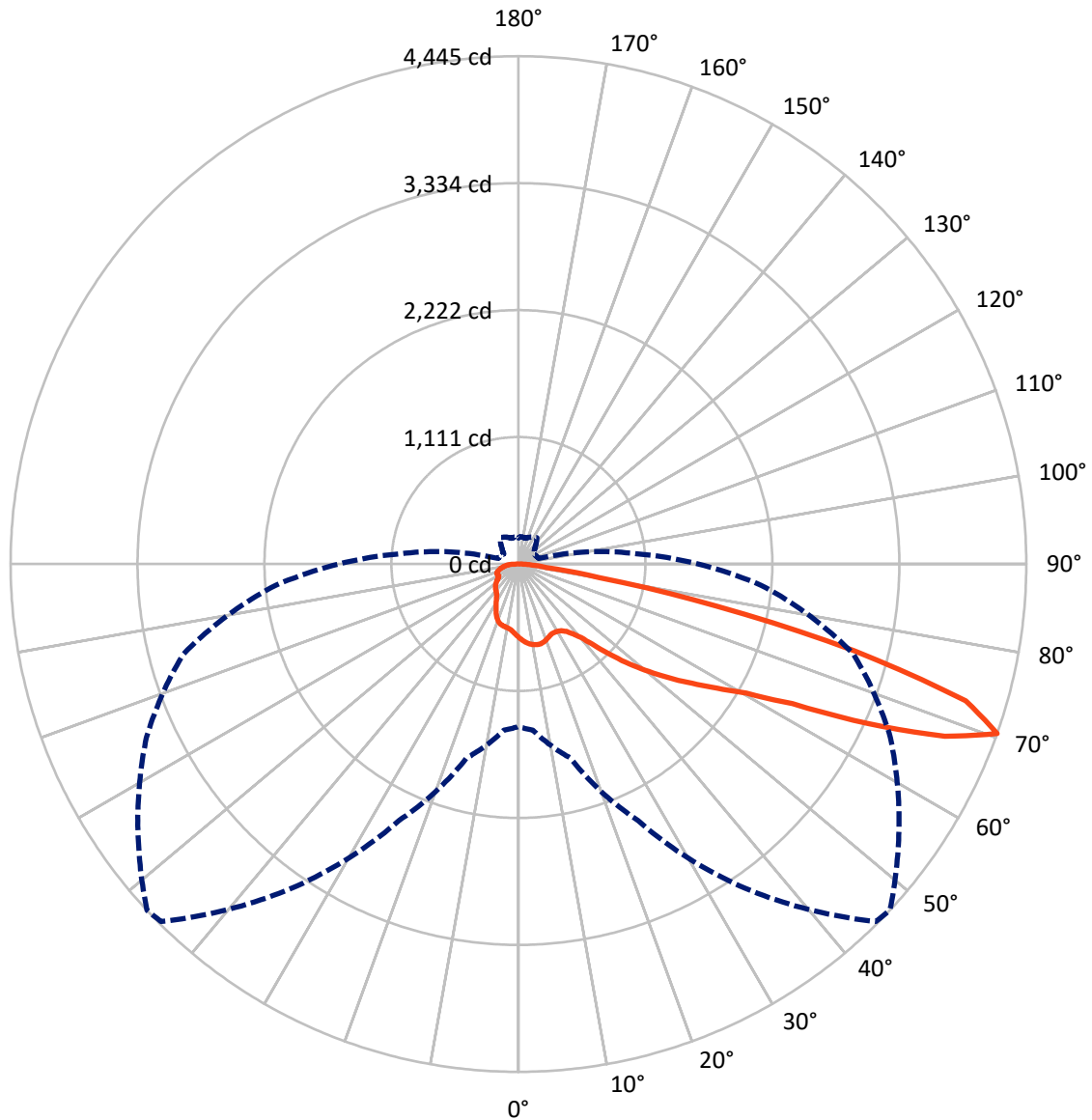
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P194119
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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P194119

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.8	0.0	1155.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4384.2	0.0	4384.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	5540.0	0.0	5540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.1
10°-20°	180.7	3.3
20°-30°	266.8	4.8
30°-40°	387.8	7.0
40°-50°	698.0	12.6
50°-60°	1209.2	21.8
60°-70°	1725.9	31.2
70°-80°	886.0	16.0
80°-90°	124.0	2.2
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°	5540.0	100.0
0°-180°	5540.0	100.0



REPORT NUMBER: P194119

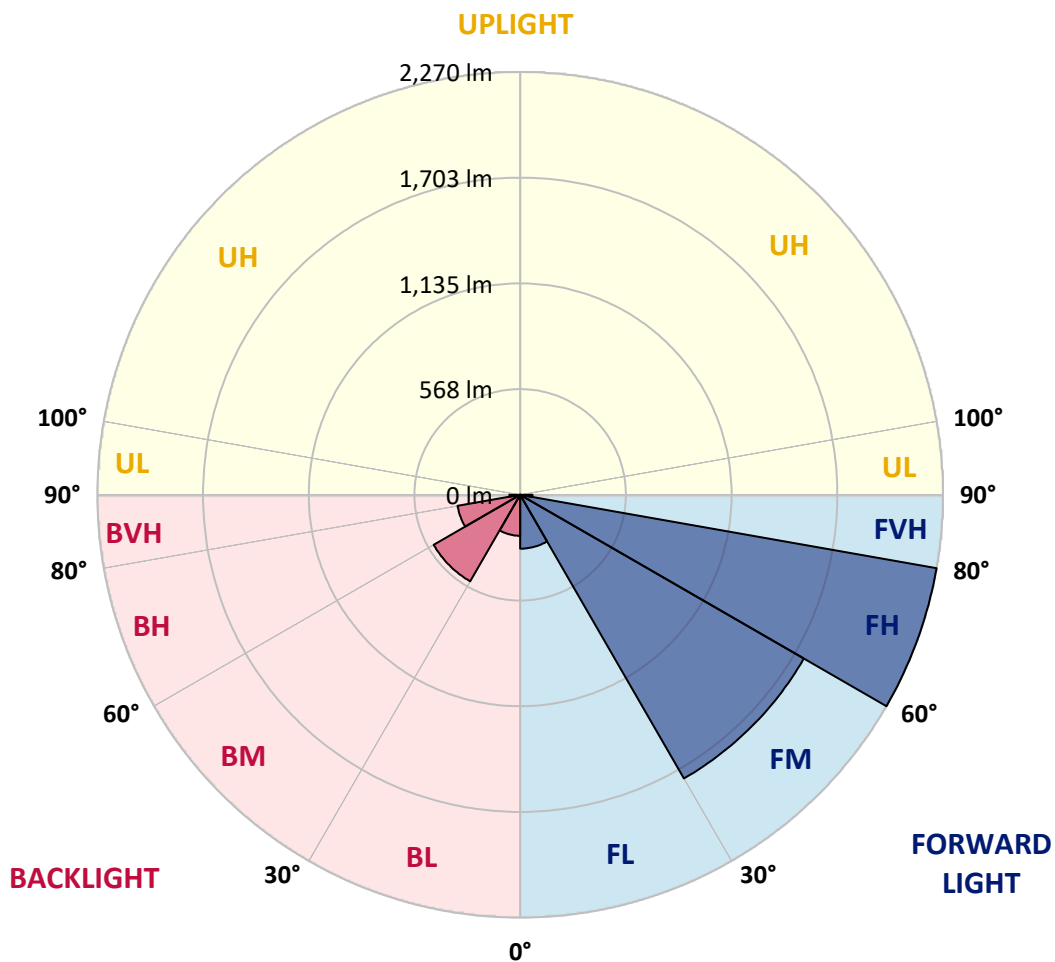
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.1	5.2			
FM (30°-60°)	1758.5	31.7			
FH (60°-80°)	2270.4	41.0			G2/5000
FVH (80°-90°)	66.2	1.2			G1/100
BL (0°-30°)	220.1	4.0	B1/500		
BM (30°-60°)	536.5	9.7	B1/1000		
BH (60°-80°)	341.4	6.2	B1/500		G1/500
BVH (80°-90°)	57.8	1.0			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 IV Short





REPORT NUMBER: P194119

CATALOG NUMBER: GLEON-AF-01-LED-E1-T4W-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
2.5°	680.5	679.2	678.7	677.6	676.2	669.5	668.1	663.3	656.6	649.6	642.3
5°	725.3	725.0	722.1	716.7	708.0	693.2	689.7	677.9	661.9	646.6	631.2
7.5°	764.6	762.2	756.6	745.8	730.7	710.5	705.6	689.2	667.3	646.3	625.6
10°	793.5	792.1	779.7	764.9	745.2	722.9	717.2	698.9	674.9	648.2	622.3
12.5°	809.9	807.2	792.9	775.1	751.7	729.9	724.2	705.6	678.7	648.2	617.7
15°	808.8	807.0	792.7	773.3	749.5	730.4	725.3	706.7	677.9	645.5	611.8
17.5°	787.3	788.1	776.0	756.8	737.4	722.9	718.3	701.0	672.5	640.1	604.8
20°	749.5	753.3	745.2	728.3	717.5	707.5	704.5	690.0	664.1	632.3	597.3
22.5°	711.8	715.3	712.1	697.8	696.2	690.2	688.6	678.1	656.8	627.4	592.7
25°	684.0	687.3	686.7	674.3	679.2	678.9	677.6	672.5	655.2	627.4	593.5
27.5°	676.5	677.6	676.5	665.2	671.9	677.3	676.2	675.4	660.1	635.3	603.7
30°	702.4	700.8	692.4	669.5	675.7	683.2	682.2	682.7	674.6	655.7	626.6
32.5°	805.6	798.3	771.9	707.5	691.1	695.1	695.6	704.5	705.9	687.3	662.2
35°	960.0	952.0	917.7	809.4	738.8	724.7	724.7	738.2	746.3	732.6	717.5
37.5°	1123.6	1114.7	1096.4	950.6	839.0	776.2	774.9	784.3	795.9	799.1	802.9
40°	1309.6	1300.2	1305.3	1109.1	978.9	865.4	846.3	839.6	870.8	891.6	921.8
42.5°	1513.1	1508.8	1510.7	1285.6	1138.2	998.9	971.6	936.9	974.6	1011.5	1074.9
45°	1701.5	1705.3	1703.4	1474.6	1315.5	1161.6	1132.8	1065.4	1102.3	1165.7	1268.9
47.5°	1866.4	1850.8	1875.1	1681.0	1514.2	1343.8	1308.3	1218.0	1255.4	1333.6	1508.3
50°	2066.7	2064.5	2029.0	1956.5	1754.3	1526.8	1480.2	1375.6	1433.9	1542.5	1809.8
52.5°	2277.2	2238.1	2205.5	2170.7	2009.0	1714.4	1657.3	1532.8	1643.6	1780.2	2177.5
55°	2320.3	2302.8	2343.2	2401.7	2254.6	1909.3	1842.7	1729.8	1879.7	2051.9	2601.4
57.5°	2412.5	2412.2	2495.8	2600.1	2507.4	2116.0	2048.9	1967.8	2145.1	2363.2	3051.5
60°	2474.8	2492.3	2647.5	2849.9	2755.6	2354.8	2293.1	2242.4	2447.0	2711.1	3470.9
62.5°	2507.4	2531.1	2742.9	2951.3	3106.5	2752.4	2690.6	2617.6	2846.4	3092.8	3716.2
65°	2371.8	2418.4	2728.1	3038.9	3413.8	3396.8	3369.0	3240.7	3345.9	3394.4	3627.5
67.5°	1996.6	2044.3	2405.0	2957.2	3633.2	4018.3	4024.2	3805.1	3653.1	3420.2	3049.9
70°	1422.5	1460.0	1758.4	2479.3	3466.1	4424.5	4444.7	4065.2	3591.9	3033.2	2130.8
72.5°	675.4	698.3	980.8	1613.6	2750.5	4053.9	4093.0	3733.2	3054.2	2245.7	1162.5
75°	248.2	255.2	331.5	686.5	1595.3	2989.5	3035.6	2676.1	2024.7	1118.0	442.8
77.5°	148.8	153.4	186.0	289.7	627.4	1708.8	1777.0	1455.4	884.8	416.1	217.8
80°	104.0	107.3	133.4	180.3	296.5	651.2	711.8	594.0	352.5	263.3	158.5
82.5°	70.3	72.0	93.8	121.8	197.0	232.6	250.9	264.1	237.7	195.9	100.5
85°	46.1	47.7	63.6	80.3	125.3	120.2	122.9	155.5	173.6	133.1	55.8
87.5°	26.4	27.5	38.3	42.9	61.5	50.9	51.5	81.9	111.0	89.8	34.0
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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CATALOG NUMBER: GLEON-AF-01-LED-E1-T4W-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
2.5°	640.4	636.9	629.1	624.2	619.6	618.6	616.7	616.4	616.1	616.1	615.3
5°	626.1	620.2	608.0	601.3	595.6	595.1	594.8	596.2	596.7	597.3	596.5
7.5°	616.9	608.9	593.8	584.1	577.3	575.7	578.4	584.6	588.6	590.3	589.4
10°	611.3	601.3	583.8	573.3	567.6	566.8	570.3	577.6	585.9	589.2	588.9
12.5°	604.8	593.5	574.9	563.8	560.6	562.2	566.8	573.5	582.2	587.3	587.6
15°	598.3	585.1	566.0	556.3	554.9	557.1	561.4	566.5	573.3	578.4	578.9
17.5°	590.5	576.8	557.6	547.7	546.6	547.7	547.9	550.6	554.9	559.8	561.1
20°	582.2	568.2	548.2	538.2	533.4	529.1	524.2	524.8	526.1	531.0	532.0
22.5°	576.2	562.2	540.9	527.2	514.2	501.3	491.6	490.3	490.8	494.8	496.2
25°	576.8	562.0	539.0	515.3	487.0	466.3	453.3	451.2	450.9	453.9	455.8
27.5°	587.3	572.5	546.1	503.2	457.4	426.7	412.9	411.3	409.1	409.9	412.1
30°	610.7	597.0	563.0	490.8	425.3	387.8	373.6	371.9	369.0	367.6	369.2
32.5°	649.0	637.7	587.8	478.9	393.2	354.7	340.1	336.6	334.7	333.1	334.5
35°	712.6	707.8	621.0	466.0	364.9	329.1	315.9	310.5	307.8	310.8	312.9
37.5°	812.3	815.0	664.4	445.8	343.1	312.1	301.1	294.9	290.8	293.2	295.7
40°	953.6	955.5	712.3	417.2	324.2	302.1	290.3	284.6	279.0	274.6	274.4
42.5°	1139.0	1119.9	759.5	386.2	302.4	295.9	282.7	275.7	267.1	255.2	252.8
45°	1358.9	1291.8	795.4	350.6	277.9	288.4	274.4	264.7	251.2	238.3	236.9
47.5°	1612.3	1476.4	812.9	313.7	255.0	277.3	264.1	248.8	231.8	225.3	224.5
50°	1921.7	1695.6	821.2	277.9	235.0	262.8	249.3	231.3	217.0	215.6	214.8
52.5°	2274.0	1959.2	823.9	248.5	218.6	243.9	237.2	219.7	208.3	209.4	209.4
55°	2642.7	2231.4	787.3	227.2	203.5	224.5	229.1	215.1	205.6	210.0	211.6
57.5°	2981.2	2472.6	671.9	210.8	189.2	209.7	226.1	219.4	212.9	230.4	231.5
60°	3241.0	2615.2	501.9	195.9	178.7	204.6	233.9	235.8	237.4	279.2	284.9
62.5°	3295.5	2567.7	345.0	184.4	173.8	208.9	248.2	248.5	246.6	275.7	279.2
65°	3045.6	2267.8	250.9	177.9	169.8	216.7	260.4	254.7	242.3	264.4	257.9
67.5°	2418.7	1708.5	208.9	173.0	163.9	216.2	273.3	260.4	239.9	259.0	248.5
70°	1570.0	1033.1	186.0	169.0	156.9	205.9	280.8	259.8	232.9	241.0	228.6
72.5°	766.0	462.0	170.6	163.1	149.6	191.6	280.6	255.0	225.6	225.1	218.3
75°	299.7	211.6	156.6	154.2	137.2	175.5	273.0	248.0	217.0	208.3	205.9
77.5°	175.5	150.9	138.8	141.0	122.4	159.3	262.0	235.8	205.1	194.9	192.2
80°	127.8	112.9	118.3	121.8	104.6	143.1	247.2	221.0	191.9	197.0	193.2
82.5°	81.9	72.8	96.0	99.5	87.1	126.7	231.0	205.4	173.3	157.4	153.6
85°	41.8	46.1	71.4	75.7	67.1	104.0	211.3	184.6	152.3	131.0	133.1
87.5°	23.4	31.5	45.5	50.9	47.4	80.0	171.4	152.3	124.3	101.1	88.9
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)