

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: P269118

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269118
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-02-LED-E1-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6922.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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: 25 FT

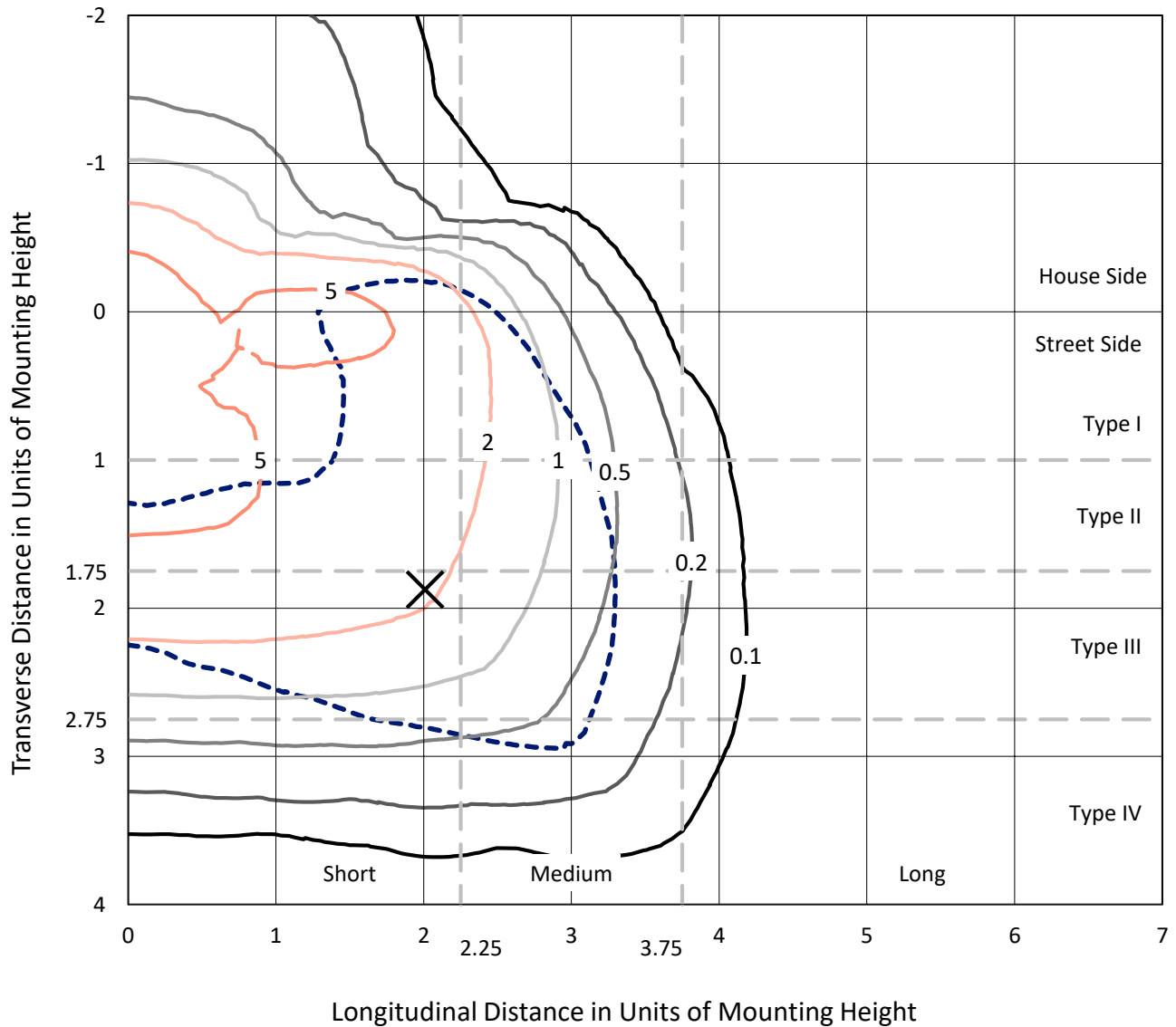


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

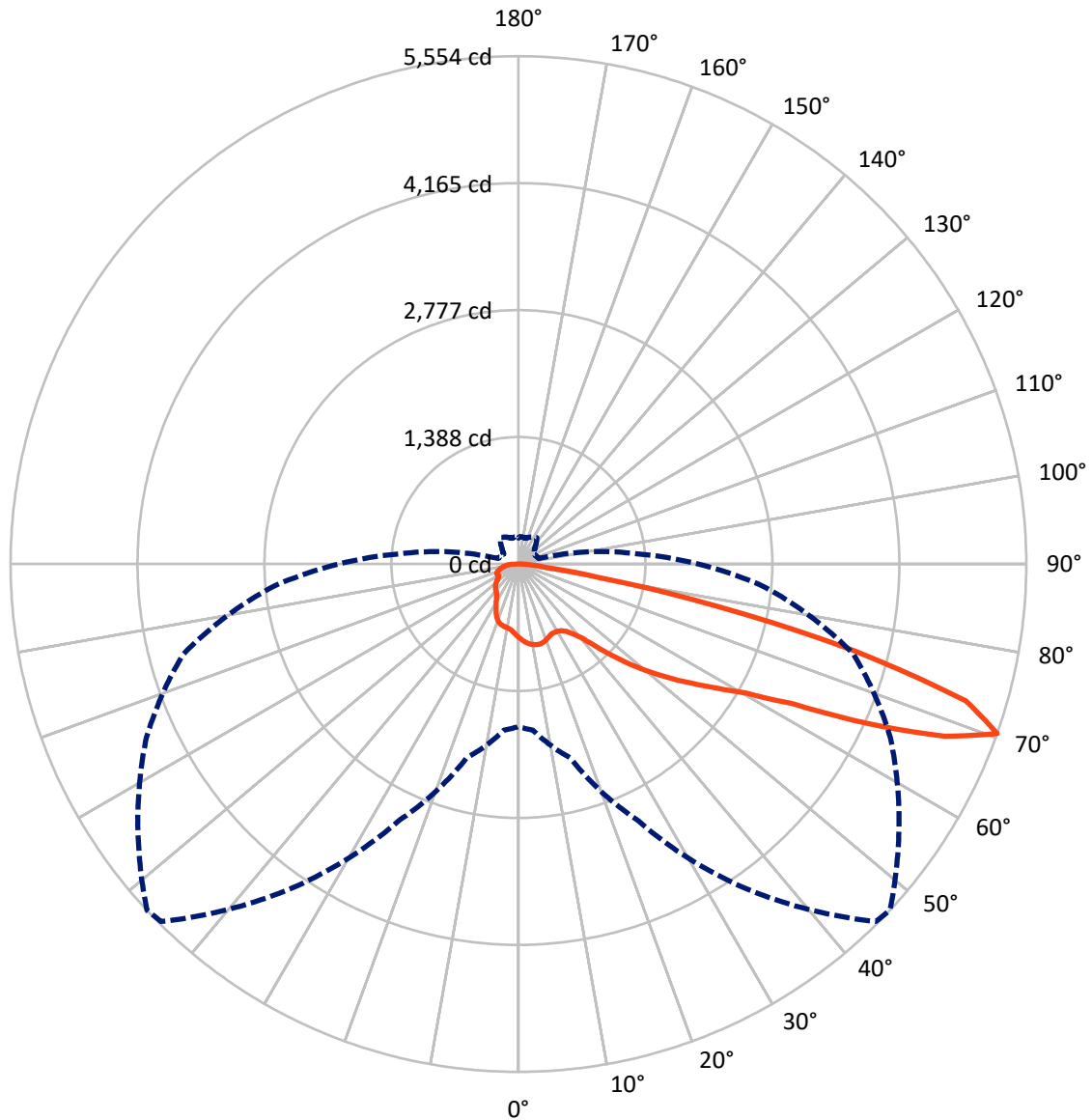


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.2	0.0	1444.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5478.2	0.0	5478.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	6922.4	0.0	6922.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.1
10°-20°	225.8	3.3
20°-30°	333.4	4.8
30°-40°	484.6	7.0
40°-50°	872.2	12.6
50°-60°	1510.9	21.8
60°-70°	2156.5	31.2
70°-80°	1107.0	16.0
80°-90°	155.0	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°	6922.4	100.0
0°-180°	6922.4	100.0



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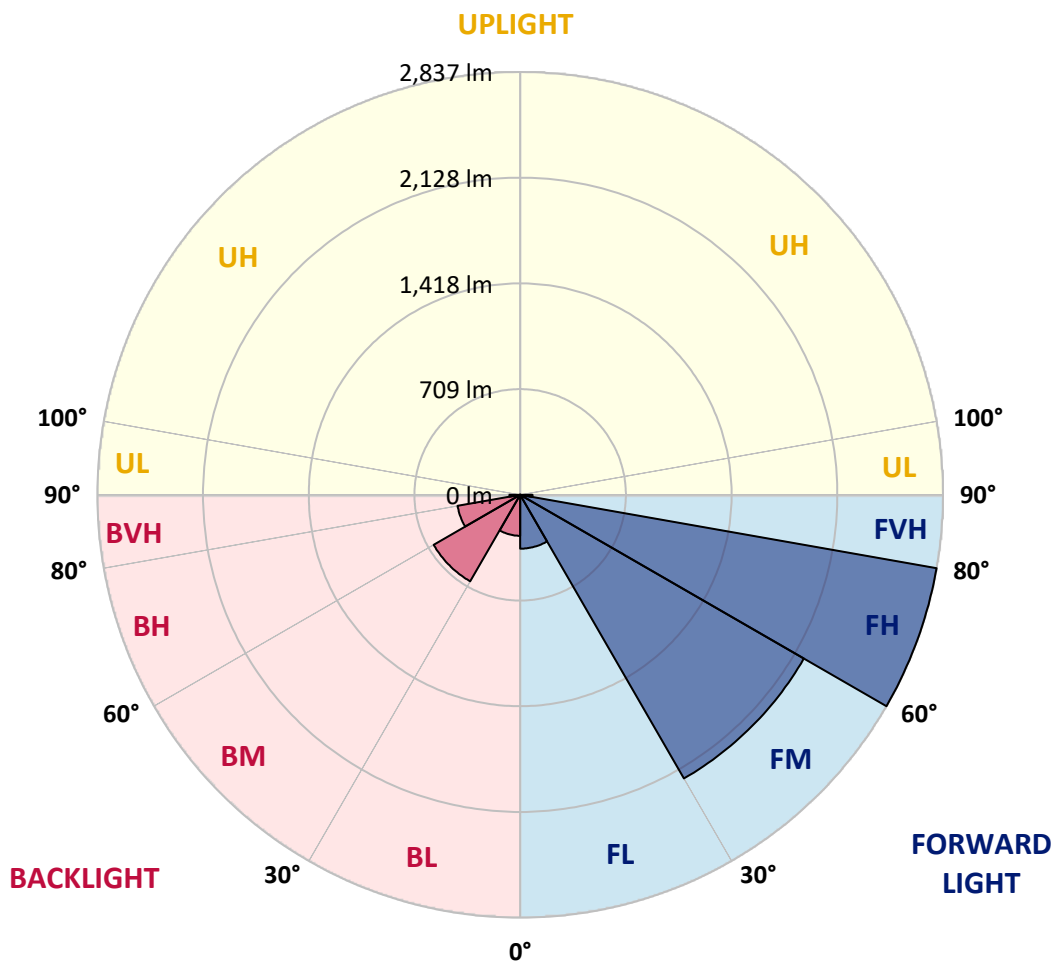
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.2	5.2			
FM (30°-60°)	2197.4	31.7			
FH (60°-80°)	2837.0	41.0			G2/5000
FVH (80°-90°)	82.7	1.2			G1/100
BL (0°-30°)	275.0	4.0	B1/500		
BM (30°-60°)	670.3	9.7	B1/1000		
BH (60°-80°)	426.6	6.2	B1/500		G1/500
BVH (80°-90°)	72.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	850.3	848.7	848.0	846.7	844.9	836.5	834.9	828.7	820.4	811.6	802.5
5°	906.3	905.9	902.2	895.5	884.7	866.1	861.8	847.0	827.1	807.9	788.7
7.5°	955.4	952.5	945.3	931.8	912.9	887.7	881.6	861.1	833.8	807.5	781.6
10°	991.5	989.8	974.3	955.7	931.3	903.2	896.1	873.2	843.2	809.9	777.7
12.5°	1012.0	1008.6	990.8	968.6	939.3	912.0	905.0	881.6	848.0	809.9	772.0
15°	1010.7	1008.3	990.4	966.1	936.6	912.7	906.3	883.0	847.0	806.6	764.5
17.5°	983.7	984.7	969.6	945.6	921.4	903.2	897.4	875.9	840.3	799.9	755.7
20°	936.6	941.3	931.3	910.0	896.5	884.0	880.2	862.2	829.9	790.1	746.3
22.5°	889.4	893.9	889.9	872.0	869.9	862.6	860.4	847.3	820.7	784.0	740.6
25°	854.7	858.8	858.2	842.6	848.7	848.3	846.7	840.3	818.7	784.0	741.6
27.5°	845.3	846.7	845.3	831.1	839.6	846.4	844.9	844.0	824.7	793.8	754.3
30°	877.6	875.6	865.2	836.5	844.2	853.7	852.4	853.1	843.0	819.3	783.1
32.5°	1006.6	997.6	964.5	884.0	863.5	868.5	869.2	880.2	882.0	858.8	827.5
35°	1199.5	1189.4	1146.7	1011.3	923.1	905.6	905.6	922.4	932.5	915.4	896.5
37.5°	1404.1	1392.9	1370.0	1187.7	1048.4	969.9	968.3	980.1	994.6	998.6	1003.2
40°	1636.4	1624.7	1631.1	1385.8	1223.2	1081.4	1057.5	1049.1	1088.1	1114.1	1151.7
42.5°	1890.7	1885.3	1887.6	1606.3	1422.1	1248.0	1214.1	1170.6	1217.8	1263.9	1343.1
45°	2126.1	2130.8	2128.4	1842.6	1643.8	1451.5	1415.5	1331.3	1377.5	1456.5	1585.6
47.5°	2332.2	2312.6	2343.0	2100.4	1892.0	1679.2	1634.7	1521.9	1568.7	1666.4	1884.6
50°	2582.4	2579.8	2535.2	2444.6	2192.0	1907.8	1849.6	1718.8	1791.7	1927.4	2261.5
52.5°	2845.4	2796.7	2755.8	2712.4	2510.4	2142.3	2070.9	1915.2	2053.6	2224.5	2720.8
55°	2899.3	2877.5	2927.9	3001.0	2817.2	2385.7	2302.5	2161.4	2348.7	2563.9	3250.5
57.5°	3014.5	3014.2	3118.6	3248.9	3133.0	2644.0	2560.2	2458.8	2680.5	2952.9	3812.9
60°	3092.2	3114.2	3308.2	3561.2	3443.3	2942.4	2865.4	2802.1	3057.7	3387.7	4336.9
62.5°	3133.0	3162.7	3427.4	3687.7	3881.7	3439.3	3362.0	3270.8	3556.7	3864.5	4643.5
65°	2963.7	3021.9	3408.9	3797.1	4265.6	4244.4	4209.6	4049.4	4180.7	4241.3	4532.7
67.5°	2494.9	2554.4	3005.1	3695.1	4539.8	5020.9	5028.4	4754.5	4564.6	4273.6	3811.0
70°	1777.4	1824.3	2197.2	3098.1	4331.0	5528.4	5553.9	5079.6	4488.2	3790.0	2662.5
72.5°	844.0	872.7	1225.6	2016.2	3436.8	5065.5	5114.3	4664.7	3816.4	2806.0	1452.5
75°	310.2	318.9	414.3	857.8	1993.3	3735.5	3793.2	3343.9	2529.8	1397.0	553.4
77.5°	185.9	191.6	232.4	362.0	784.0	2135.2	2220.4	1818.6	1105.6	519.9	272.0
80°	130.0	134.0	166.6	225.4	370.5	813.7	889.4	742.3	440.4	329.0	198.0
82.5°	87.9	89.9	117.1	152.3	246.1	290.6	313.6	330.0	297.0	244.9	125.7
85°	57.6	59.6	79.5	100.4	156.7	150.1	153.6	194.4	216.9	166.4	69.7
87.5°	33.0	34.3	47.8	53.5	76.7	63.7	64.3	102.3	138.8	112.2	42.4
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°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	800.2	795.8	786.0	780.0	774.2	772.9	770.6	770.1	769.8	769.8	768.9
5°	782.3	774.9	759.7	751.3	744.2	743.5	743.3	745.0	745.7	746.3	745.2
7.5°	770.8	760.8	741.9	729.9	721.3	719.4	722.7	730.5	735.5	737.6	736.5
10°	763.7	751.3	729.5	716.3	709.2	708.3	712.6	721.7	732.2	736.3	735.8
12.5°	755.7	741.6	718.4	704.5	700.5	702.6	708.3	716.7	727.4	733.8	734.2
15°	747.7	731.1	707.2	695.1	693.4	696.1	701.4	708.0	716.3	722.7	723.3
17.5°	737.9	720.7	696.7	684.2	683.0	684.2	684.7	688.0	693.4	699.5	701.1
20°	727.4	709.9	685.0	672.6	666.5	661.2	655.0	655.8	657.4	663.5	664.7
22.5°	720.0	702.6	676.0	658.7	642.6	626.4	614.4	612.6	613.3	618.4	620.0
25°	720.7	702.1	673.5	643.9	608.5	582.6	566.4	563.7	563.4	567.1	569.4
27.5°	733.8	715.3	682.4	628.8	571.5	533.1	515.9	513.9	511.2	512.3	514.9
30°	763.1	746.0	703.6	613.3	531.4	484.6	466.8	464.8	461.0	459.4	461.4
32.5°	811.0	796.7	734.5	598.5	491.4	443.3	425.0	420.6	418.3	416.3	417.9
35°	890.4	884.4	776.0	582.3	456.0	411.2	394.6	388.0	384.7	388.2	391.0
37.5°	1015.1	1018.4	830.2	556.9	428.8	390.0	376.2	368.5	363.4	366.4	369.5
40°	1191.5	1193.8	890.1	521.3	405.1	377.5	362.7	355.5	348.5	343.2	342.9
42.5°	1423.3	1399.3	949.0	482.6	377.8	369.8	353.3	344.5	333.7	318.9	315.9
45°	1698.1	1614.2	993.9	438.2	347.3	360.4	342.9	330.8	313.9	297.7	296.0
47.5°	2014.5	1844.8	1015.8	392.0	318.5	346.6	330.0	310.9	289.7	281.6	280.5
50°	2401.2	2118.7	1026.1	347.3	293.7	328.4	311.5	289.0	271.1	269.4	268.5
52.5°	2841.3	2448.1	1029.5	310.5	273.2	304.7	296.4	274.5	260.2	261.6	261.6
55°	3302.1	2788.2	983.7	284.0	254.3	280.5	286.3	268.8	256.9	262.3	264.5
57.5°	3725.1	3089.6	839.6	263.4	236.4	262.0	282.5	274.2	266.1	287.9	289.3
60°	4049.7	3267.8	627.0	244.9	223.3	255.6	292.3	294.6	296.7	348.9	356.0
62.5°	4117.8	3208.4	431.0	230.3	217.2	261.0	310.2	310.5	308.2	344.5	348.9
65°	3805.6	2833.7	313.6	222.3	212.2	270.7	325.4	318.3	302.8	330.3	322.3
67.5°	3022.3	2134.8	261.0	216.2	204.8	270.1	341.4	325.4	299.8	323.6	310.5
70°	1961.7	1290.9	232.4	211.1	196.0	257.4	350.9	324.6	291.1	301.1	285.7
72.5°	957.1	577.3	213.2	203.7	186.8	239.5	350.6	318.5	281.9	281.2	272.7
75°	374.6	264.5	195.7	192.6	171.4	219.2	341.1	309.8	271.1	260.2	257.4
77.5°	219.2	188.6	173.5	176.2	152.9	199.1	327.3	294.6	256.2	243.5	240.1
80°	159.5	141.2	147.9	152.3	130.7	178.9	308.8	276.1	239.8	246.1	241.5
82.5°	102.3	90.9	120.0	124.2	108.8	158.3	288.6	256.6	216.5	196.6	192.0
85°	52.2	57.6	89.2	94.6	83.8	130.0	264.0	230.7	190.4	163.8	166.4
87.5°	29.4	39.3	57.0	63.7	59.3	100.0	214.2	190.4	155.2	126.3	111.1
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)