

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: P191559

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191559  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5114.8 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

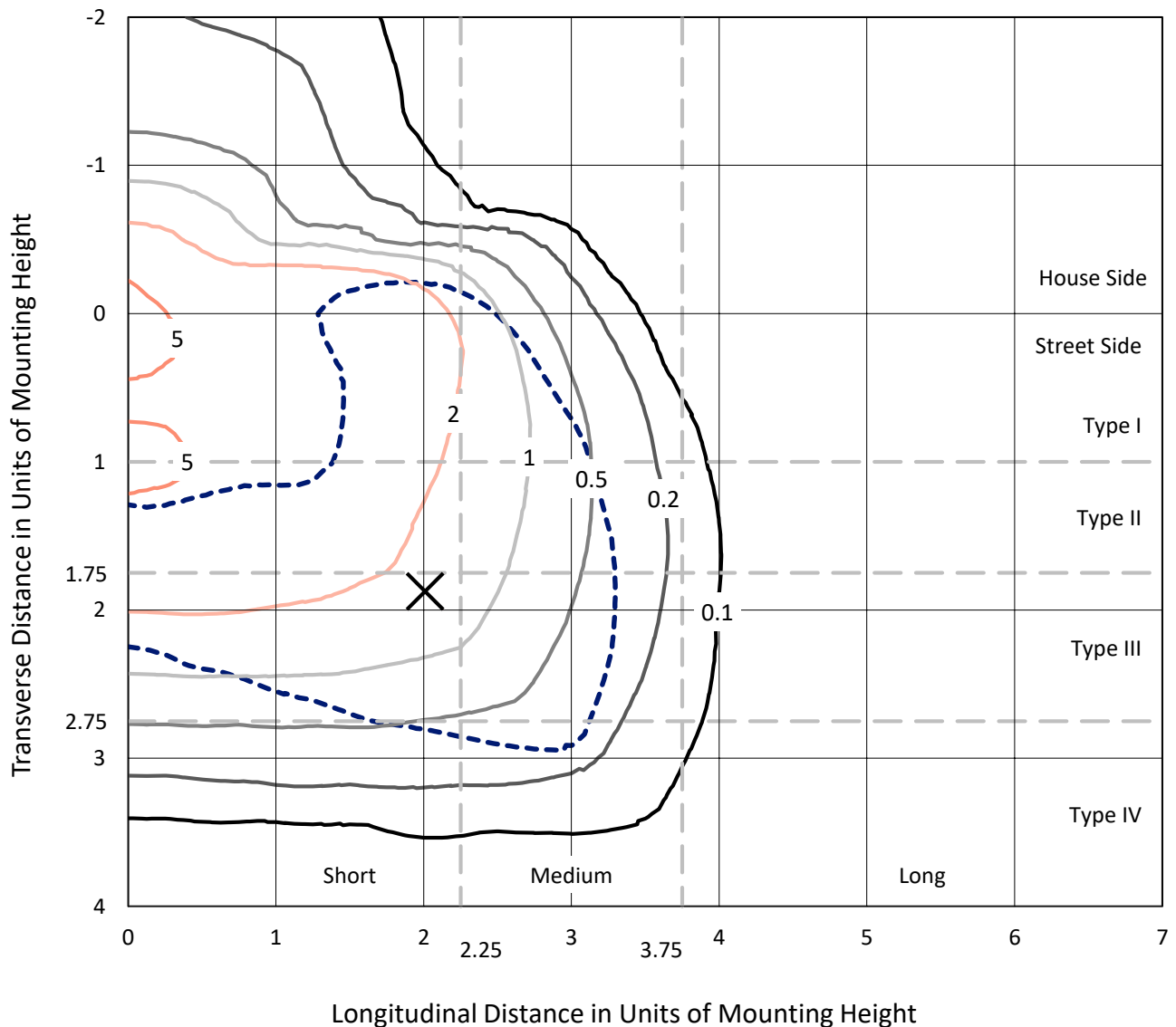
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

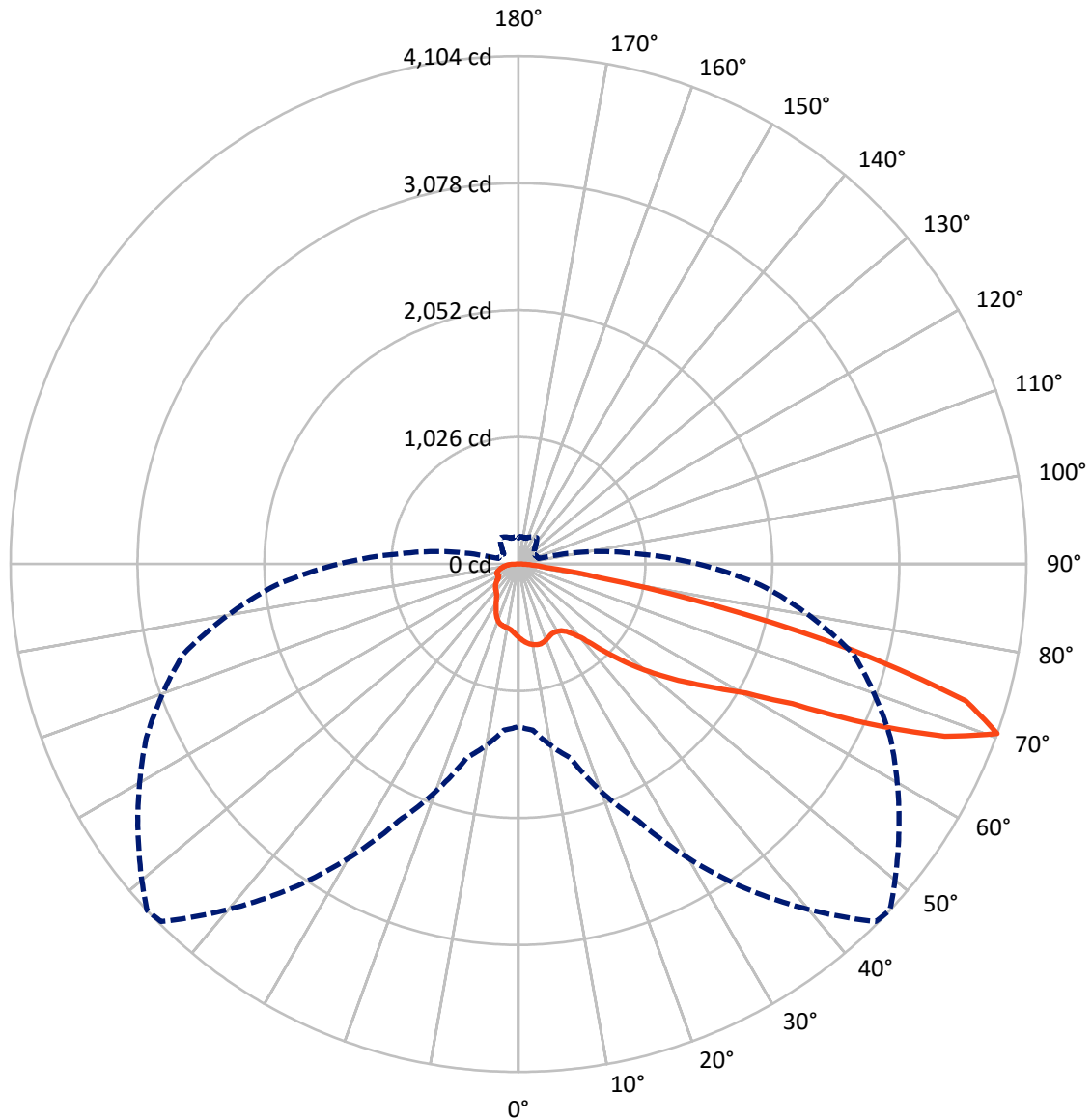
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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
<b>House Side</b>	Lumens	1067.1	0.0	1067.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	4047.7	0.0	4047.7
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	5114.8	0.0	5114.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	1.1
10°-20°	166.8	3.3
20°-30°	246.4	4.8
30°-40°	358.1	7.0
40°-50°	644.4	12.6
50°-60°	1116.4	21.8
60°-70°	1593.4	31.2
70°-80°	818.0	16.0
80°-90°	114.5	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°	5114.8	100.0
0°-180°	5114.8	100.0

**Coefficient of Utilization**



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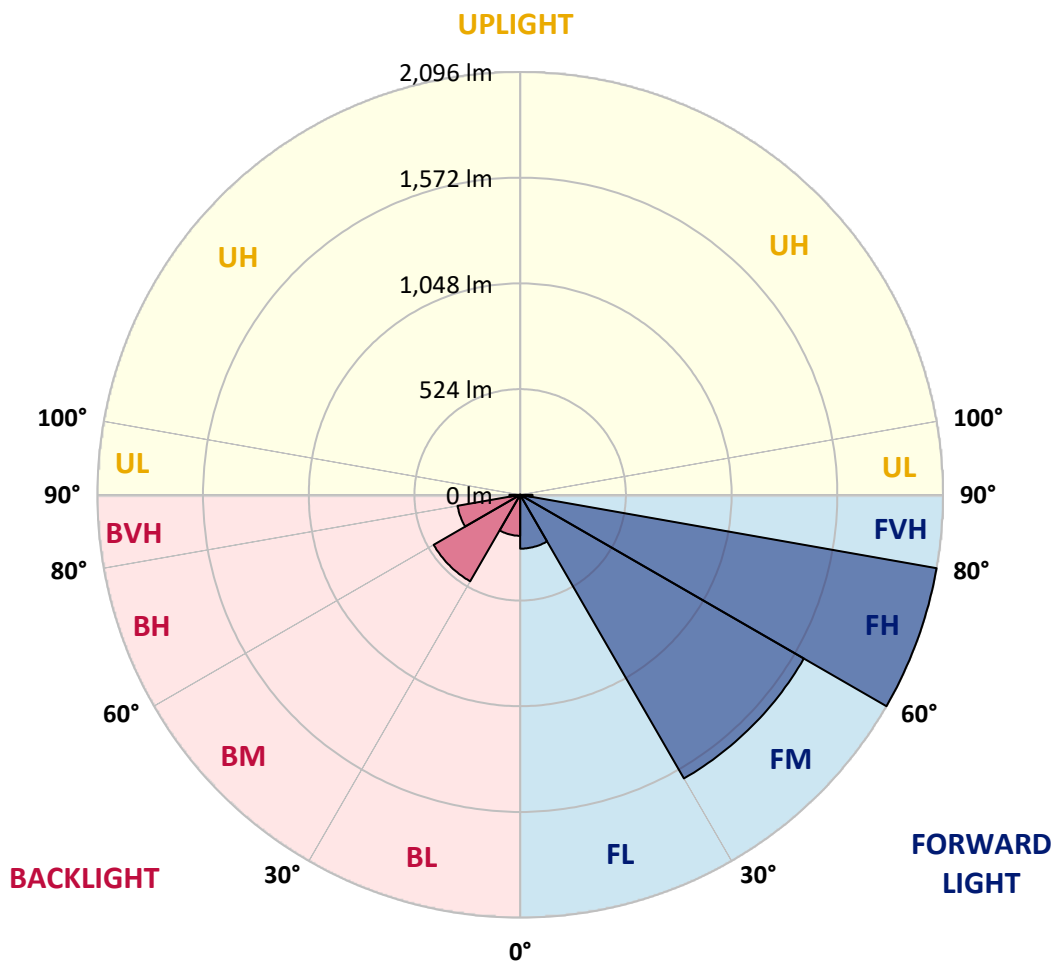
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.9	5.2			
FM	(30°-60°)	1623.6	31.7			
FH	(60°-80°)	2096.2	41.0			G2/5000
FVH	(80°-90°)	61.1	1.2			G1/100
BL	(0°-30°)	203.2	4.0	B1/500		
BM	(30°-60°)	495.3	9.7	B1/1000		
BH	(60°-80°)	315.2	6.2	B1/500		G1/500
BVH	(80°-90°)	53.4	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°	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
2.5°	628.3	627.1	626.6	625.5	624.3	618.1	616.8	612.3	606.2	599.7	593.0
5°	669.6	669.3	666.7	661.6	653.7	640.0	636.8	625.8	611.1	597.0	582.8
7.5°	705.9	703.7	698.5	688.5	674.6	655.9	651.4	636.3	616.1	596.7	577.6
10°	732.5	731.3	719.9	706.1	688.0	667.4	662.2	645.3	623.1	598.4	574.6
12.5°	747.8	745.2	732.0	715.7	694.0	673.8	668.6	651.4	626.6	598.4	570.3
15°	746.8	745.0	731.8	713.9	692.0	674.3	669.6	652.4	625.8	596.0	564.9
17.5°	726.8	727.6	716.4	698.8	680.8	667.4	663.2	647.2	620.8	591.0	558.4
20°	692.0	695.5	688.0	672.4	662.4	653.2	650.5	637.0	613.2	583.8	551.4
22.5°	657.1	660.4	657.5	644.3	642.7	637.3	635.8	626.0	606.4	579.3	547.2
25°	631.6	634.5	634.0	622.6	627.1	626.9	625.5	620.8	604.9	579.3	547.9
27.5°	624.6	625.5	624.6	614.1	620.3	625.3	624.3	623.6	609.4	586.5	557.4
30°	648.4	647.0	639.2	618.1	623.8	630.8	629.8	630.3	622.9	605.4	578.6
32.5°	743.8	737.0	712.7	653.2	638.0	641.7	642.2	650.5	651.7	634.5	611.4
35°	886.4	878.9	847.3	747.3	682.1	669.1	669.1	681.6	689.1	676.4	662.4
37.5°	1037.4	1029.2	1012.2	877.6	774.6	716.7	715.3	724.1	734.8	737.8	741.2
40°	1209.1	1200.3	1205.1	1024.0	903.8	799.0	781.3	775.1	803.9	823.2	851.0
42.5°	1396.9	1393.0	1394.7	1186.9	1050.9	922.2	897.0	864.9	899.8	933.9	992.4
45°	1570.8	1574.4	1572.7	1361.3	1214.5	1072.5	1045.9	983.7	1017.7	1076.2	1171.5
47.5°	1723.2	1708.7	1731.1	1552.0	1398.0	1240.7	1207.8	1124.5	1159.1	1231.2	1392.4
50°	1908.1	1906.1	1873.2	1806.3	1619.6	1409.6	1366.6	1270.1	1323.8	1424.0	1670.9
52.5°	2102.4	2066.4	2036.2	2004.2	1854.8	1582.8	1530.1	1415.2	1517.3	1643.6	2010.3
55°	2142.3	2126.0	2163.3	2217.3	2081.5	1762.7	1701.3	1597.0	1735.3	1894.4	2401.8
57.5°	2227.3	2227.1	2304.2	2400.6	2314.9	1953.6	1891.6	1816.8	1980.4	2181.7	2817.3
60°	2284.8	2300.9	2444.3	2631.1	2544.1	2174.1	2117.1	2070.4	2259.2	2503.1	3204.5
62.5°	2314.9	2336.8	2532.4	2724.7	2868.0	2541.1	2484.1	2416.7	2628.0	2855.4	3431.0
65°	2189.7	2232.8	2518.7	2805.6	3151.7	3136.1	3110.4	2992.0	3089.0	3133.8	3349.0
67.5°	1843.4	1887.4	2220.3	2730.3	3354.3	3709.8	3715.4	3513.0	3372.7	3157.7	2815.8
70°	1313.4	1347.9	1623.4	2289.1	3200.0	4084.8	4103.6	3753.2	3316.2	2800.4	1967.2
72.5°	623.6	644.8	905.5	1489.7	2539.4	3742.8	3778.8	3446.6	2819.8	2073.3	1073.2
75°	229.1	235.7	306.1	633.8	1472.8	2760.0	2802.6	2470.6	1869.2	1032.2	408.9
77.5°	137.4	141.6	171.7	267.5	579.3	1577.6	1640.6	1343.7	816.9	384.2	201.0
80°	96.1	99.0	123.2	166.4	273.7	601.2	657.1	548.4	325.5	243.2	146.3
82.5°	65.0	66.4	86.6	112.4	181.9	214.7	231.7	243.9	219.4	180.9	92.8
85°	42.6	44.1	58.7	74.2	115.7	111.0	113.4	143.6	160.3	123.0	51.6
87.5°	24.3	25.4	35.3	39.6	56.8	47.1	47.6	75.6	102.5	82.9	31.3
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°	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
2.5°	591.3	588.0	580.7	576.3	572.0	571.1	569.4	569.1	568.9	568.9	568.0
5°	578.1	572.5	561.4	555.2	549.9	549.4	549.2	550.4	551.0	551.4	550.7
7.5°	569.6	562.1	548.2	539.2	533.0	531.5	534.0	539.7	543.5	544.9	544.2
10°	564.4	555.2	539.0	529.3	524.1	523.3	526.5	533.3	540.9	543.9	543.7
12.5°	558.4	547.9	530.8	520.6	517.6	519.0	523.3	529.5	537.5	542.2	542.5
15°	552.4	540.2	522.5	513.6	512.4	514.3	518.3	523.0	529.3	534.0	534.5
17.5°	545.2	532.5	514.9	505.6	504.6	505.6	505.8	508.4	512.4	516.8	518.1
20°	537.5	524.6	506.2	496.9	492.4	488.5	484.0	484.5	485.7	490.2	491.2
22.5°	532.0	519.0	499.4	486.7	474.8	462.8	453.9	452.7	453.2	456.8	458.1
25°	532.5	518.8	497.7	475.8	449.7	430.5	418.5	416.5	416.3	419.0	420.7
27.5°	542.2	528.6	504.1	464.6	422.3	393.9	381.3	379.7	377.8	378.5	380.4
30°	563.9	551.2	519.9	453.2	392.7	358.0	344.8	343.4	340.6	339.4	340.9
32.5°	599.2	588.7	542.7	442.2	363.0	327.4	314.0	310.8	309.0	307.6	308.8
35°	658.0	653.5	573.4	430.3	337.0	303.8	291.6	286.6	284.2	286.9	288.9
37.5°	750.0	752.5	613.4	411.5	316.8	288.2	277.9	272.2	268.5	270.8	272.9
40°	880.4	882.1	657.7	385.2	299.3	279.0	268.0	262.8	257.6	253.6	253.3
42.5°	1051.6	1033.9	701.2	356.6	279.2	273.2	261.1	254.5	246.6	235.7	233.4
45°	1254.6	1192.7	734.3	323.8	256.6	266.3	253.3	244.4	231.9	219.9	218.7
47.5°	1488.5	1363.1	750.4	289.6	235.4	256.0	243.9	229.7	214.0	208.1	207.2
50°	1774.2	1565.4	758.2	256.6	217.0	242.6	230.2	213.5	200.3	199.1	198.4
52.5°	2099.4	1808.8	760.7	229.4	201.8	225.2	219.0	202.9	192.3	193.3	193.3
55°	2439.8	2060.1	726.8	209.8	187.9	207.2	211.5	198.6	189.9	193.8	195.4
57.5°	2752.4	2282.8	620.3	194.6	174.7	193.5	208.8	202.5	196.6	212.8	213.8
60°	2992.2	2414.5	463.3	180.9	165.0	188.8	215.9	217.7	219.2	257.8	263.0
62.5°	3042.5	2370.7	318.5	170.2	160.5	192.8	229.1	229.4	227.7	254.5	257.8
65°	2811.8	2093.7	231.7	164.2	156.7	200.1	240.4	235.2	223.7	244.1	238.1
67.5°	2233.0	1577.4	192.8	159.8	151.3	199.6	252.4	240.4	221.5	239.2	229.4
70°	1449.4	953.8	171.7	156.0	144.8	190.1	259.3	239.9	215.0	222.5	211.0
72.5°	707.2	426.5	157.5	150.6	138.1	177.0	259.0	235.4	208.3	207.8	201.5
75°	276.7	195.4	144.5	142.3	126.6	162.0	252.1	228.9	200.3	192.3	190.1
77.5°	162.0	139.3	128.2	130.1	112.9	147.1	241.8	217.7	189.3	179.9	177.4
80°	117.9	104.2	109.3	112.4	96.6	132.2	228.2	204.1	177.2	181.9	178.4
82.5°	75.6	67.2	88.6	91.9	80.4	116.9	213.3	189.7	160.0	145.4	141.9
85°	38.6	42.6	66.0	70.0	62.0	96.1	195.1	170.4	140.6	120.9	123.0
87.5°	21.7	29.2	42.0	47.1	43.8	73.9	158.3	140.6	114.7	93.3	82.1
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)