

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: P191579

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191579  
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-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6944.8 lumens  
Efficiency: N/A  
Efficacy: 103.7 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

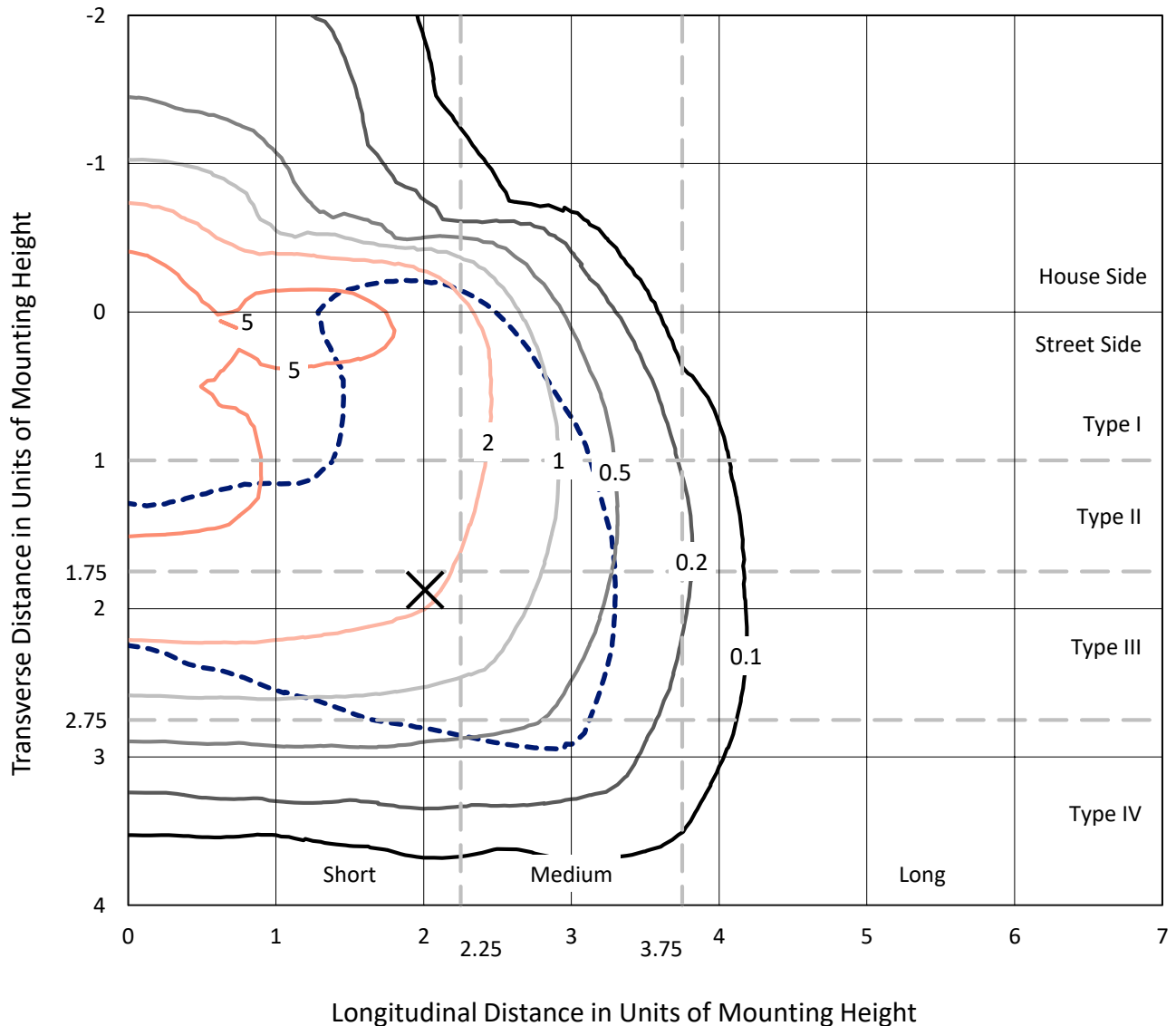
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

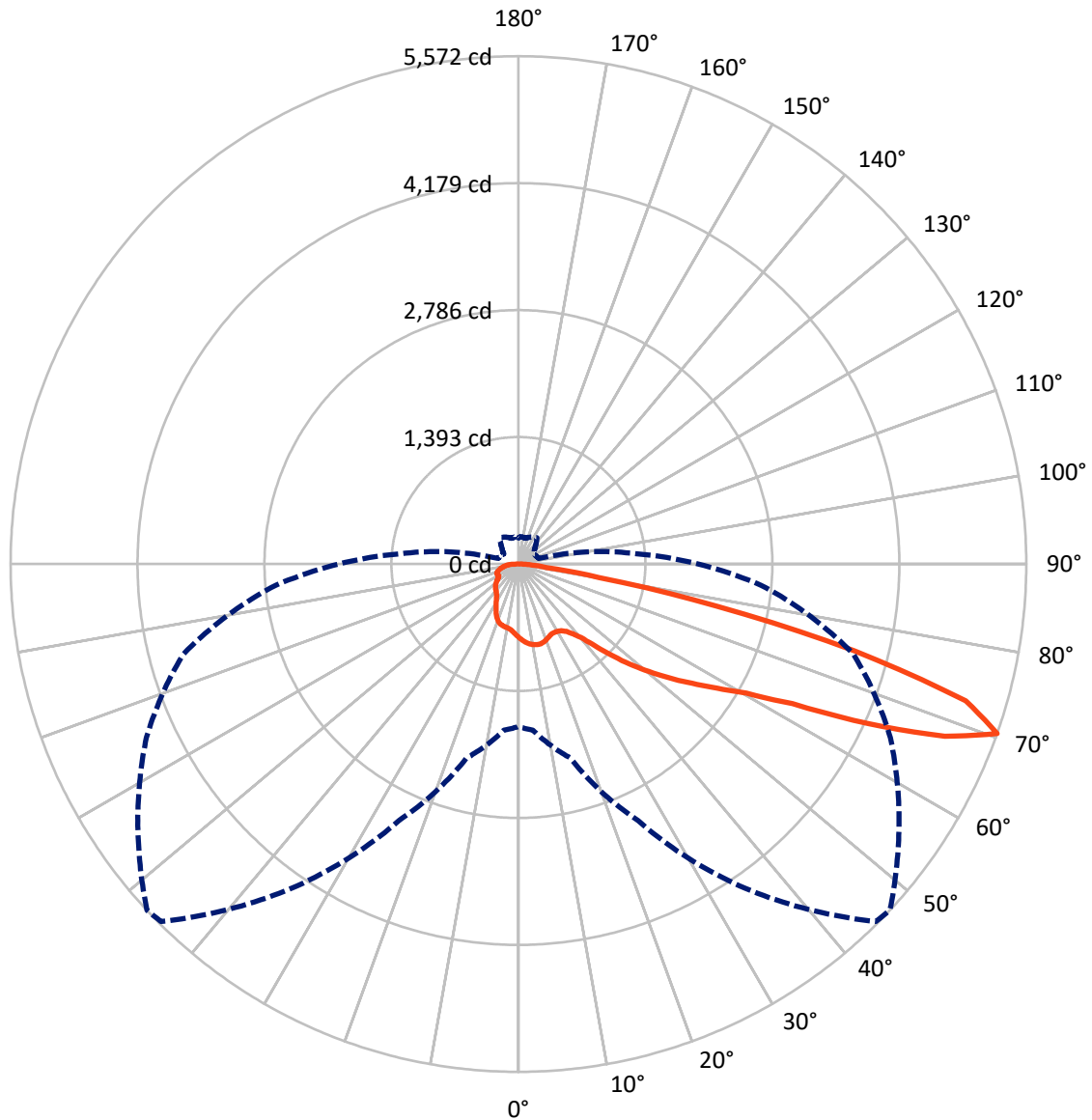
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1448.8	0.0	1448.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	5496.0	0.0	5496.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	6944.8	0.0	6944.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	1.1
10°-20°	226.5	3.3
20°-30°	334.5	4.8
30°-40°	486.2	7.0
40°-50°	875.0	12.6
50°-60°	1515.8	21.8
60°-70°	2163.5	31.2
70°-80°	1110.6	16.0
80°-90°	155.5	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°	6944.8	100.0
0°-180°	6944.8	100.0



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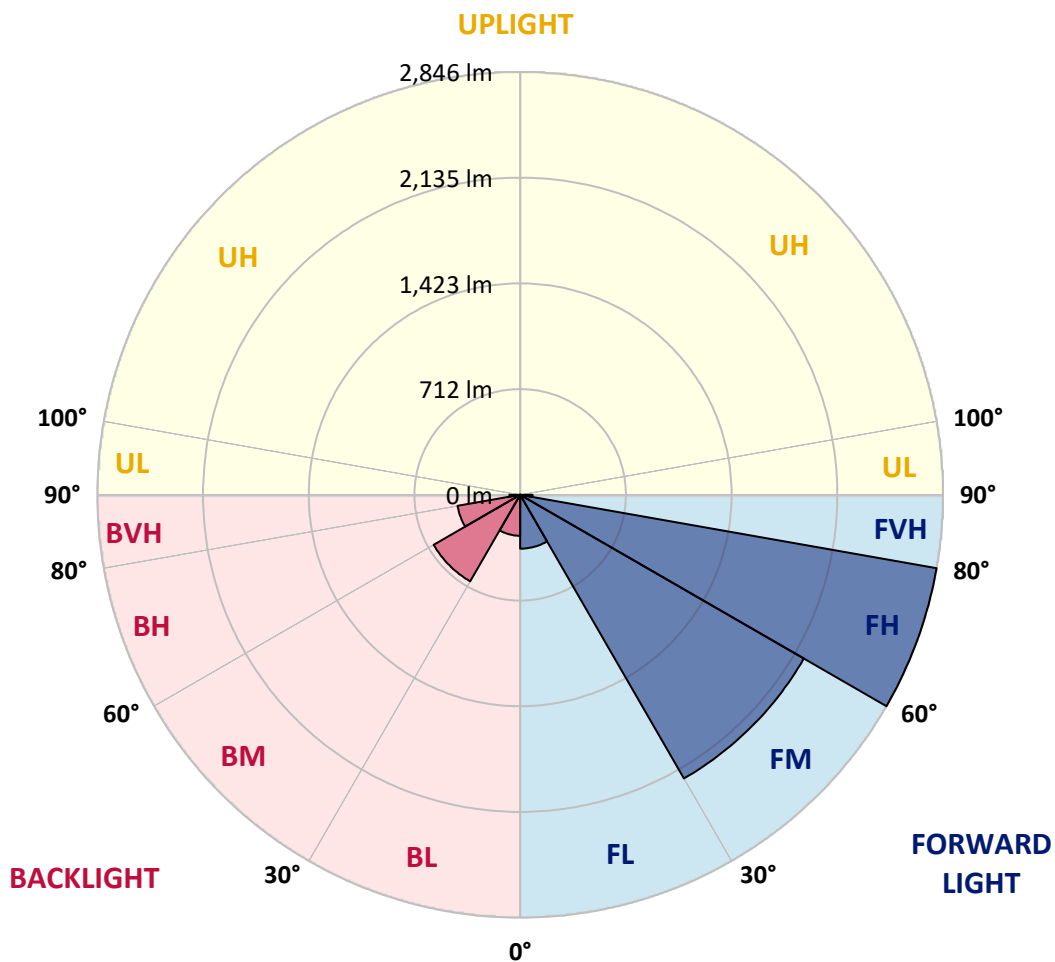
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.4	5.2			
FM	(30°-60°)	2204.5	31.7			
FH	(60°-80°)	2846.2	41.0			G2/5000
FVH	(80°-90°)	83.0	1.2			G1/100
BL	(0°-30°)	275.9	4.0	B1/500		
BM	(30°-60°)	672.5	9.7	B1/1000		
BH	(60°-80°)	427.9	6.2	B1/500		G1/500
BVH	(80°-90°)	72.5	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°	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8
2.5°	853.1	851.4	850.8	849.4	847.7	839.2	837.6	831.5	823.1	814.3	805.2
5°	909.2	908.9	905.1	898.4	887.6	869.0	864.6	849.8	829.8	810.6	791.3
7.5°	958.5	955.5	948.4	934.9	916.0	890.6	884.5	863.9	836.6	810.2	784.2
10°	994.7	993.0	977.4	958.9	934.2	906.1	899.1	876.1	846.0	812.5	780.1
12.5°	1015.3	1011.9	994.0	971.7	942.3	914.9	907.9	884.5	850.8	812.5	774.4
15°	1013.9	1011.6	993.7	969.3	939.6	915.6	909.2	885.9	849.8	809.2	767.0
17.5°	986.9	988.0	972.7	948.7	924.4	906.1	900.4	878.8	843.0	802.4	758.2
20°	939.6	944.4	934.2	912.9	899.4	886.9	883.2	864.9	832.5	792.7	748.7
22.5°	892.3	896.7	892.6	874.7	872.7	865.3	863.3	850.1	823.4	786.5	743.0
25°	857.5	861.5	860.9	845.4	851.4	851.1	849.4	843.0	821.3	786.5	744.0
27.5°	848.0	849.4	848.0	833.8	842.3	849.0	847.7	846.7	827.5	796.4	756.8
30°	880.5	878.4	868.0	839.2	847.0	856.5	855.2	855.8	845.7	822.0	785.5
32.5°	1009.9	1000.8	967.6	886.9	866.3	871.3	872.1	883.2	884.9	861.5	830.1
35°	1203.5	1193.4	1150.4	1014.7	926.1	908.5	908.5	925.5	935.6	918.3	899.4
37.5°	1408.6	1397.5	1374.4	1191.6	1051.8	973.0	971.4	983.2	997.7	1001.8	1006.5
40°	1641.7	1629.9	1636.3	1390.3	1227.1	1084.9	1060.9	1052.4	1091.7	1117.7	1155.5
42.5°	1896.8	1891.3	1893.8	1611.7	1426.8	1252.1	1218.0	1174.4	1221.7	1268.0	1347.4
45°	2133.0	2137.7	2135.3	1848.5	1649.1	1456.2	1420.1	1335.6	1381.9	1461.3	1590.7
47.5°	2339.7	2320.2	2350.5	2107.3	1898.2	1684.6	1640.0	1526.9	1573.8	1671.8	1890.7
50°	2590.7	2588.1	2543.5	2452.6	2199.1	1914.0	1855.5	1724.5	1797.4	1933.6	2268.8
52.5°	2854.6	2805.6	2764.7	2721.2	2518.5	2149.2	2077.5	1921.4	2060.3	2231.6	2729.6
55°	2908.7	2886.8	2937.4	3010.7	2826.3	2393.5	2310.0	2168.5	2356.3	2572.2	3261.1
57.5°	3024.3	3023.9	3128.7	3259.4	3143.2	2652.6	2568.4	2466.7	2689.1	2962.5	3825.3
60°	3102.3	3124.3	3318.9	3572.7	3454.4	2951.9	2874.6	2811.1	3067.5	3398.7	4351.0
62.5°	3143.2	3172.9	3438.4	3699.6	3894.3	3450.3	3373.0	3281.4	3568.3	3877.0	4658.5
65°	2973.2	3031.7	3419.9	3809.5	4279.4	4258.1	4223.4	4062.5	4194.3	4255.1	4547.3
67.5°	2503.0	2562.7	3014.8	3707.1	4554.5	5037.3	5044.7	4770.0	4579.4	4287.5	3823.3
70°	1783.3	1830.3	2204.3	3108.0	4345.0	5546.4	5571.8	5096.0	4502.7	3802.4	2671.2
72.5°	846.7	875.4	1229.5	2022.8	3448.0	5081.9	5130.8	4679.8	3828.7	2815.2	1457.2
75°	311.2	320.0	415.6	860.5	1999.9	3747.6	3805.4	3354.7	2538.0	1401.4	555.2
77.5°	186.5	192.2	233.1	363.2	786.5	2142.1	2227.6	1824.5	1109.2	521.7	273.0
80°	130.4	134.5	167.3	226.1	371.6	816.3	892.3	744.7	441.9	330.1	198.7
82.5°	88.2	90.2	117.5	152.7	246.9	291.5	314.6	331.1	298.0	245.6	126.0
85°	57.8	59.8	79.7	100.7	157.1	150.7	154.1	195.0	217.6	166.9	70.0
87.5°	33.1	34.5	48.0	53.7	77.0	63.8	64.5	102.7	139.2	112.5	42.6
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°	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8	805.8
2.5°	802.8	798.4	788.6	782.5	776.7	775.4	773.0	772.7	772.3	772.3	771.3
5°	784.9	777.4	762.2	753.8	746.7	746.0	745.6	747.4	748.1	748.7	747.7
7.5°	773.4	763.2	744.3	732.1	723.7	721.7	725.1	732.8	737.9	739.9	738.9
10°	766.3	753.8	731.8	718.6	711.6	710.5	714.9	724.0	734.5	738.6	738.3
12.5°	758.2	744.0	720.7	706.9	702.8	704.8	710.5	719.0	729.8	736.2	736.5
15°	750.0	733.6	709.5	697.3	695.7	698.4	703.8	710.2	718.6	725.1	725.8
17.5°	740.3	723.0	699.1	686.5	685.2	686.5	686.9	690.3	695.7	701.7	703.5
20°	729.8	712.2	687.2	674.7	668.6	663.3	657.1	657.9	659.5	665.6	667.0
22.5°	722.4	704.8	678.1	660.8	644.7	628.4	616.2	614.6	615.3	620.3	622.1
25°	723.0	704.4	675.8	646.0	610.5	584.5	568.2	565.6	565.3	569.0	571.3
27.5°	736.2	717.6	684.6	630.8	573.4	534.8	517.6	515.6	512.9	513.9	516.6
30°	765.6	748.4	705.8	615.3	533.2	486.2	468.3	466.3	462.6	460.8	462.9
32.5°	813.6	799.4	736.9	600.4	493.0	444.7	426.4	422.0	419.6	417.6	419.3
35°	893.3	887.2	778.5	584.2	457.5	412.6	396.0	389.2	385.9	389.5	392.3
37.5°	1018.3	1021.7	832.9	558.8	430.2	391.3	377.4	369.6	364.6	367.6	370.6
40°	1195.4	1197.8	892.9	523.0	406.4	378.8	363.9	356.8	349.6	344.3	343.9
42.5°	1427.8	1403.8	952.1	484.2	379.1	371.0	354.5	345.7	334.8	320.0	316.9
45°	1703.5	1619.4	997.1	439.6	348.3	361.5	343.9	331.7	314.9	298.7	297.0
47.5°	2021.1	1850.8	1019.0	393.3	319.7	347.7	331.1	311.9	290.5	282.4	281.4
50°	2408.9	2125.5	1029.5	348.3	294.6	329.4	312.5	289.9	272.0	270.3	269.2
52.5°	2850.6	2456.0	1032.9	311.5	274.0	305.8	297.4	275.4	261.2	262.5	262.5
55°	3312.8	2797.2	986.9	284.8	255.1	281.4	287.1	269.6	257.8	263.2	265.3
57.5°	3737.1	3099.6	842.3	264.2	237.2	262.9	283.5	275.1	266.9	288.9	290.2
60°	4062.9	3278.4	629.1	245.6	224.0	256.5	293.3	295.6	297.7	350.1	357.1
62.5°	4131.1	3218.8	432.5	231.1	217.9	261.9	311.2	311.5	309.1	345.7	350.1
65°	3817.9	2842.8	314.6	223.0	212.9	271.7	326.4	319.3	303.7	331.4	323.4
67.5°	3032.0	2141.8	261.9	216.9	205.4	271.0	342.6	326.4	300.7	324.7	311.5
70°	1968.1	1295.1	233.1	211.9	196.6	258.1	352.1	325.7	292.0	302.1	286.5
72.5°	960.2	579.1	213.9	204.4	187.5	240.2	351.7	319.7	282.8	282.1	273.6
75°	375.7	265.3	196.3	193.2	172.0	219.9	342.3	310.9	272.0	261.2	258.1
77.5°	219.9	189.2	174.0	176.7	153.4	199.7	328.4	295.6	257.1	244.3	240.9
80°	160.2	141.6	148.3	152.7	131.1	179.4	309.9	277.0	240.6	246.9	242.2
82.5°	102.7	91.2	120.3	124.7	109.1	158.8	289.6	257.5	217.3	197.3	192.6
85°	52.4	57.8	89.5	94.9	84.1	130.4	264.8	231.4	190.9	164.2	166.9
87.5°	29.4	39.5	57.1	63.8	59.4	100.4	214.9	190.9	155.8	126.7	111.5
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)