

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: P647760

Luminaire Tested: **GALN-SA2A-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7270.9 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

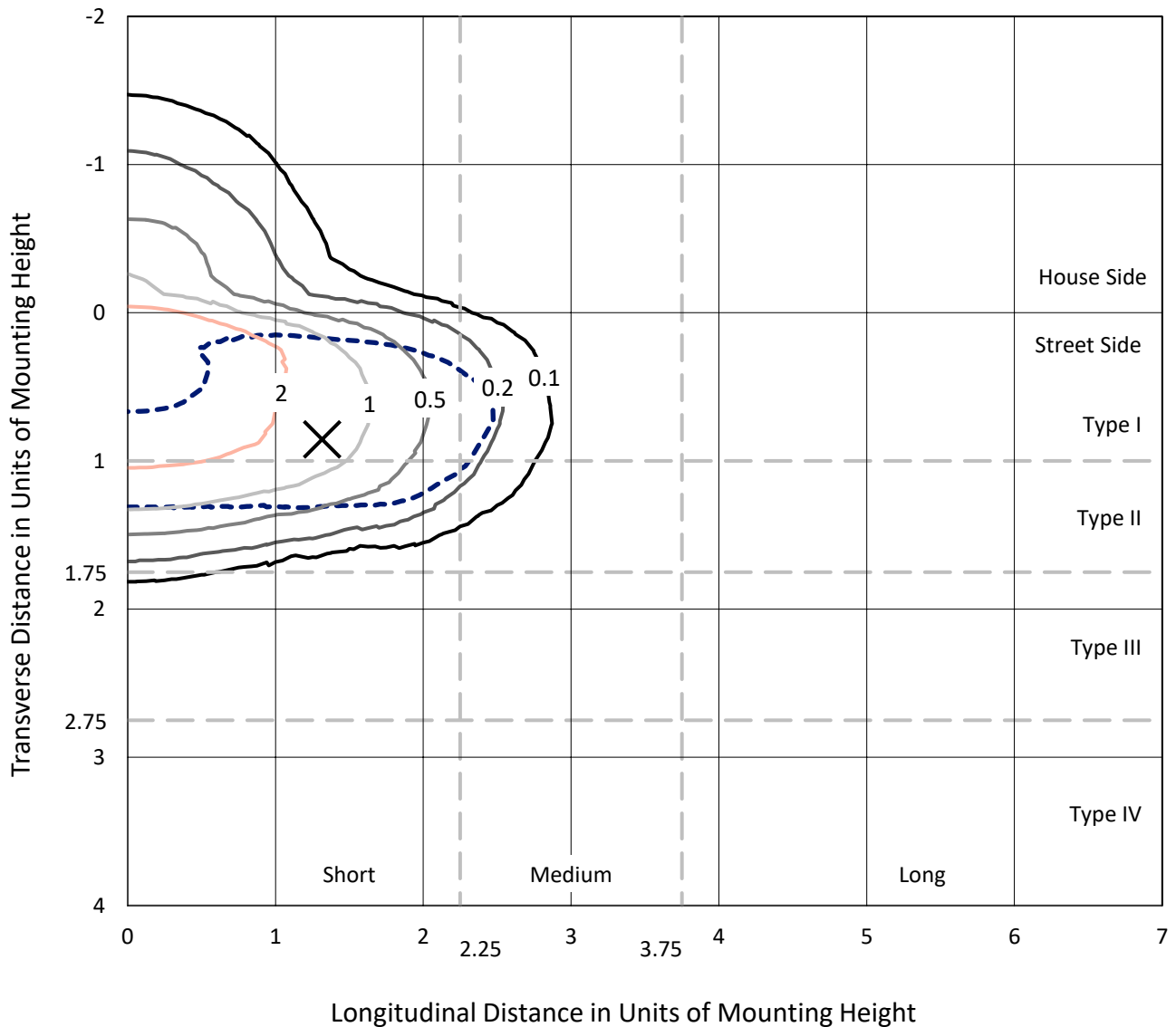
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

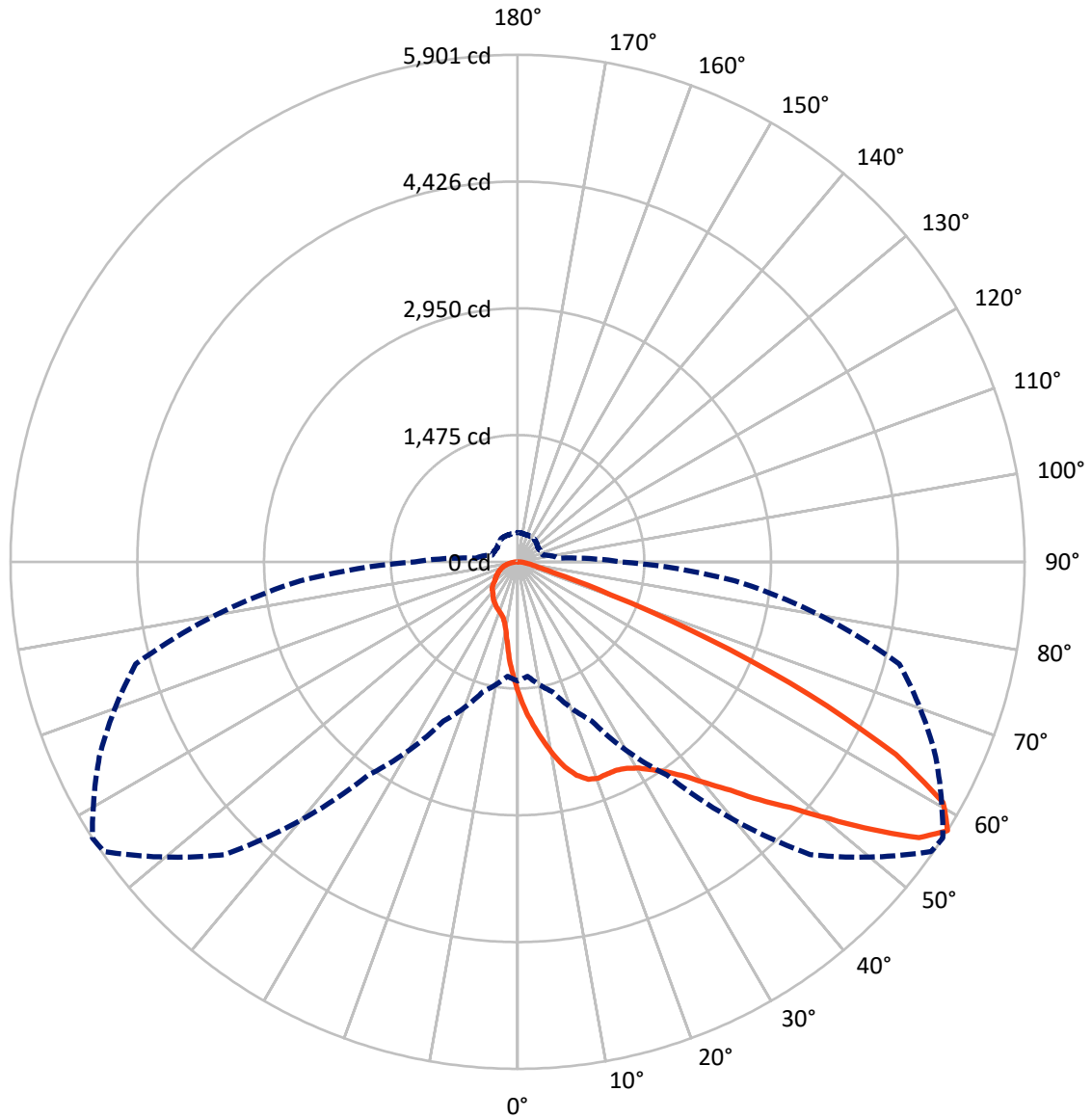
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1105.7	0.0	1105.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	6165.2	0.0	6165.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	7270.9	0.0	7270.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	2.0
10°-20°	432.7	6.0
20°-30°	718.4	9.9
30°-40°	1082.2	14.9
40°-50°	1624.8	22.3
50°-60°	1821.2	25.0
60°-70°	1065.9	14.7
70°-80°	315.3	4.3
80°-90°	63.7	0.9
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°	7270.9	100.0
0°-180°	7270.9	100.0

**Coefficient of Utilization**

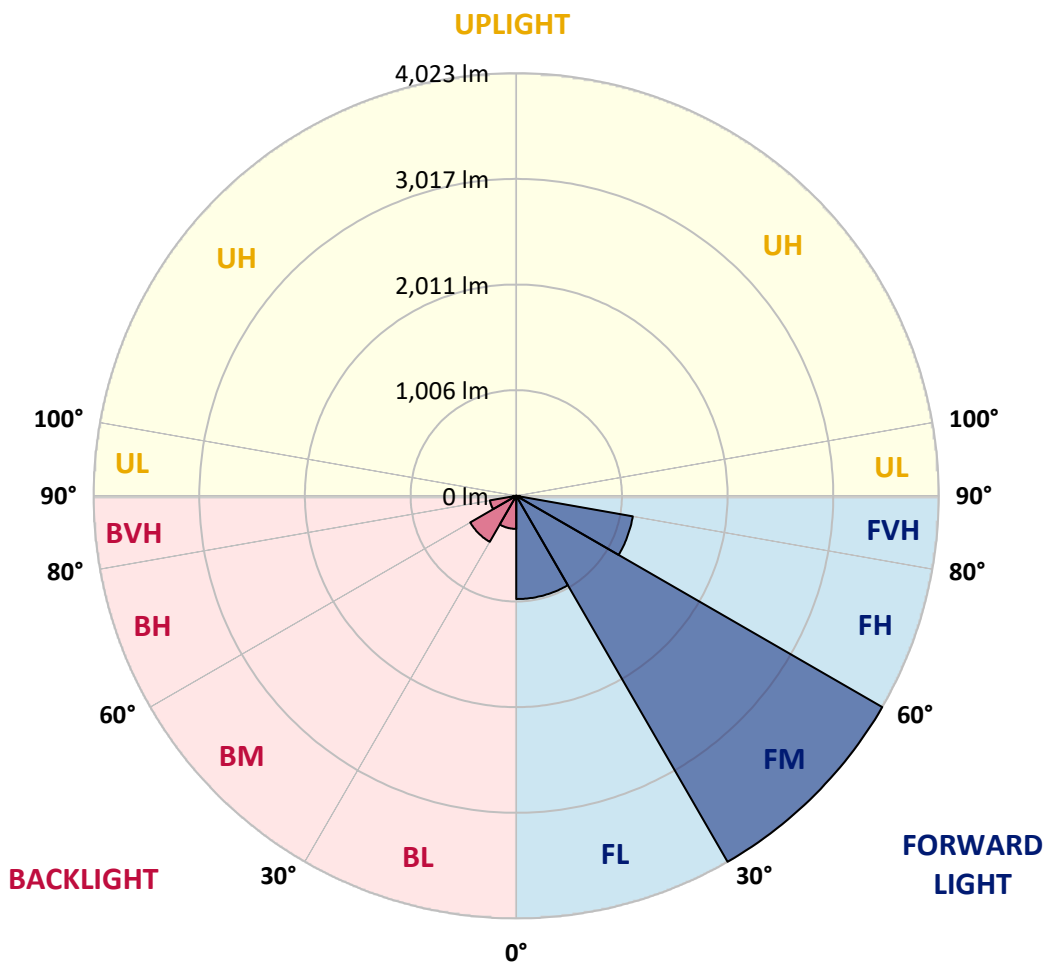


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.9	13.5			
FM (30°-60°)	4022.6	55.3			
FH (60°-80°)	1126.7	15.5			G1/1800
FVH (80°-90°)	33.1	0.5			G1/100
BL (0°-30°)	315.1	4.3	B1/500		
BM (30°-60°)	505.6	7.0	B1/1000		
BH (60°-80°)	254.4	3.5	B1/500		G1/500
BVH (80°-90°)	30.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1898.1	1877.4	1861.0	1846.7	1828.1	1777.5	1726.9	1726.1	1686.0	1623.9	1560.2
5°	2207.4	2179.5	2183.1	2138.5	2093.9	2020.7	1913.6	1908.0	1822.4	1706.2	1588.0
7.5°	2408.7	2409.1	2397.9	2372.5	2324.3	2241.2	2119.7	2092.3	1973.3	1797.0	1619.9
10°	2398.4	2409.1	2427.8	2449.7	2464.4	2423.5	2312.8	2279.4	2124.5	1906.8	1655.3
12.5°	2260.7	2277.4	2304.1	2358.9	2447.7	2515.4	2477.6	2450.5	2299.7	2016.3	1694.3
15°	2174.7	2184.6	2199.4	2236.4	2331.9	2493.9	2591.8	2577.5	2464.8	2140.1	1738.1
17.5°	2148.4	2158.3	2163.1	2185.8	2253.9	2419.9	2636.8	2662.3	2611.3	2253.9	1782.3
20°	2174.7	2179.5	2179.5	2193.0	2246.3	2376.5	2634.8	2686.2	2731.5	2390.4	1823.7
22.5°	2243.5	2245.6	2242.7	2247.5	2287.3	2388.5	2616.1	2679.7	2828.6	2506.2	1855.9
25°	2355.4	2358.6	2340.2	2329.1	2358.2	2440.9	2626.4	2684.9	2904.6	2616.9	1877.4
27.5°	2482.3	2486.3	2464.0	2438.2	2451.7	2505.8	2667.1	2719.6	2961.5	2725.9	1890.9
30°	2638.0	2639.6	2602.1	2571.1	2562.4	2602.5	2736.3	2785.2	3032.4	2854.5	1911.2
32.5°	2797.2	2809.1	2760.9	2717.2	2702.4	2714.8	2838.5	2885.9	3116.8	2992.6	1943.9
35°	3013.7	3015.6	2957.9	2904.6	2856.1	2872.0	2969.5	3003.7	3233.4	3152.2	1990.0
37.5°	3283.9	3302.2	3222.7	3123.2	3063.4	3040.4	3127.9	3165.4	3397.0	3348.0	2059.7
40°	3584.0	3590.8	3522.7	3460.6	3351.6	3284.8	3345.2	3385.8	3598.7	3581.7	2140.5
42.5°	3772.7	3787.4	3792.6	3786.2	3704.2	3592.0	3615.1	3634.2	3837.6	3800.9	2223.3
45°	3836.4	3858.2	3932.3	4089.1	4097.8	3987.2	3933.5	3951.8	4097.8	4022.3	2302.5
47.5°	3730.9	3768.3	3904.8	4226.4	4467.2	4475.5	4313.5	4273.4	4335.1	4205.7	2359.8
50°	3458.3	3466.2	3675.2	4140.8	4640.4	4942.5	4774.9	4700.0	4560.3	4341.4	2399.2
52.5°	3036.4	3045.6	3220.6	3743.2	4533.6	5268.8	5314.5	5180.8	4789.2	4446.9	2425.0
55°	2253.9	2306.8	2499.5	3004.5	4028.2	5238.1	5743.6	5667.6	5065.8	4530.5	2465.7
57.5°	1385.8	1337.3	1565.8	2044.2	3029.6	4817.0	5876.1	5900.8	5370.3	4600.5	2533.7
60°	637.6	647.1	741.5	1054.3	1846.7	3768.3	5534.6	5690.7	5538.6	4598.2	2550.8
62.5°	439.4	430.6	406.8	462.9	842.2	2383.2	4675.0	4939.2	5201.2	4455.3	2482.7
65°	392.8	384.1	337.9	322.4	386.9	1038.8	3398.5	3732.1	4379.2	4094.7	2313.2
67.5°	367.0	355.0	307.2	277.0	276.2	413.5	2003.9	2405.5	3248.1	3461.9	2004.3
70°	339.9	330.3	283.0	249.5	235.2	259.9	880.8	1153.0	2109.0	2494.7	1561.4
72.5°	312.8	301.7	259.1	223.3	204.6	194.7	337.5	439.0	1191.6	1495.7	957.2
75°	273.4	267.9	231.6	202.2	181.9	157.2	214.2	244.4	569.9	686.9	480.4
77.5°	239.2	233.3	205.8	176.7	162.0	127.8	152.1	166.0	240.4	278.6	216.9
80°	175.2	181.1	173.5	156.1	144.5	100.3	102.3	113.8	142.9	158.0	132.6
82.5°	111.0	122.2	133.7	120.2	109.5	79.2	70.9	75.2	97.5	103.5	58.9
85°	46.6	47.4	77.6	73.2	62.5	47.0	42.6	44.9	52.1	54.5	27.5
87.5°	17.9	17.5	27.5	25.4	19.5	13.5	13.5	15.1	20.7	19.1	8.8
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°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1532.7	1504.5	1448.3	1378.7	1327.7	1270.4	1219.9	1183.7	1170.1	1163.8	1151.8
5°	1531.5	1475.8	1359.6	1237.8	1139.9	1039.6	954.8	899.9	895.1	858.5	854.9
7.5°	1531.9	1446.7	1261.6	1082.6	933.3	830.6	760.6	742.3	720.4	714.8	717.6
10°	1533.1	1409.7	1156.6	929.0	784.5	717.2	690.9	683.8	684.6	686.9	687.3
12.5°	1534.7	1373.9	1047.6	812.4	700.9	673.0	670.2	676.6	683.4	688.6	689.7
15°	1536.7	1332.9	941.2	718.4	659.1	656.7	665.9	676.6	686.1	693.7	694.9
17.5°	1534.3	1285.1	852.1	660.7	636.0	647.5	662.7	676.2	685.0	692.1	693.0
20°	1528.7	1231.8	766.2	620.1	621.7	640.4	656.7	669.5	679.0	682.5	685.4
22.5°	1507.3	1168.2	691.3	588.7	604.6	630.5	650.0	657.5	646.8	639.2	641.2
25°	1470.6	1085.4	621.7	563.2	589.1	616.5	636.4	618.1	609.3	606.2	607.8
27.5°	1424.8	994.6	569.2	536.5	569.2	601.0	595.4	592.3	588.3	583.1	584.3
30°	1375.5	905.9	524.5	515.8	547.6	566.0	568.4	573.5	569.2	561.2	564.4
32.5°	1329.8	822.3	490.7	498.3	532.5	529.8	547.6	553.7	533.3	506.7	507.9
35°	1290.7	744.6	465.3	481.2	506.7	507.9	525.8	505.0	483.2	470.4	471.2
37.5°	1261.3	684.2	448.6	466.4	473.6	488.7	479.2	468.5	465.7	456.9	457.3
40°	1243.8	631.3	437.8	454.9	453.7	464.1	433.4	444.2	448.2	445.4	445.8
42.5°	1226.3	593.8	426.7	439.0	438.6	418.3	411.5	420.7	431.0	432.2	431.4
45°	1212.3	564.8	415.1	414.8	422.7	390.9	388.8	394.4	409.1	416.3	415.9
47.5°	1196.8	540.5	397.6	386.5	388.8	373.7	370.5	372.9	390.9	402.4	405.6
50°	1177.3	516.2	375.7	360.6	350.6	357.8	358.6	359.0	376.9	390.0	392.8
52.5°	1161.7	497.9	350.6	339.5	327.5	343.5	349.5	350.2	361.0	371.8	373.7
55°	1170.9	487.6	326.0	318.0	307.2	328.8	340.3	341.9	344.3	352.3	353.4
57.5°	1198.4	489.9	306.1	295.7	287.8	311.2	330.7	331.9	330.3	339.9	341.5
60°	1206.8	488.7	291.4	271.1	266.3	292.5	316.8	319.2	318.8	332.7	335.5
62.5°	1171.8	473.6	276.6	250.3	247.2	273.4	297.3	306.9	308.8	328.8	332.3
65°	1089.3	442.6	257.1	228.5	228.5	253.1	278.6	291.7	297.3	324.0	327.9
67.5°	980.7	406.0	237.2	209.8	209.0	233.6	258.7	272.2	281.0	317.2	319.6
70°	813.9	356.6	212.5	189.5	189.5	211.7	234.4	250.7	263.5	304.5	304.5
72.5°	557.6	296.5	182.7	166.4	166.8	187.5	210.5	228.9	244.0	279.0	279.8
75°	352.7	231.6	150.0	141.7	143.3	162.8	186.7	205.8	236.0	275.9	277.0
77.5°	187.5	162.8	119.4	117.4	119.4	137.3	164.0	190.3	236.8	239.2	235.2
80°	121.4	115.4	94.4	90.4	91.1	110.6	146.0	180.7	190.3	192.6	183.8
82.5°	66.1	73.2	66.9	62.9	62.9	86.4	124.6	143.7	136.5	113.5	108.3
85°	28.3	34.2	34.6	30.2	29.0	53.3	83.5	78.4	72.8	69.7	68.8
87.5°	8.0	11.1	11.1	8.4	6.3	14.7	16.7	4.8	0.0	0.4	0.8
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)