

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: P527032

Luminaire Tested: **GALN-SA2A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7731 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

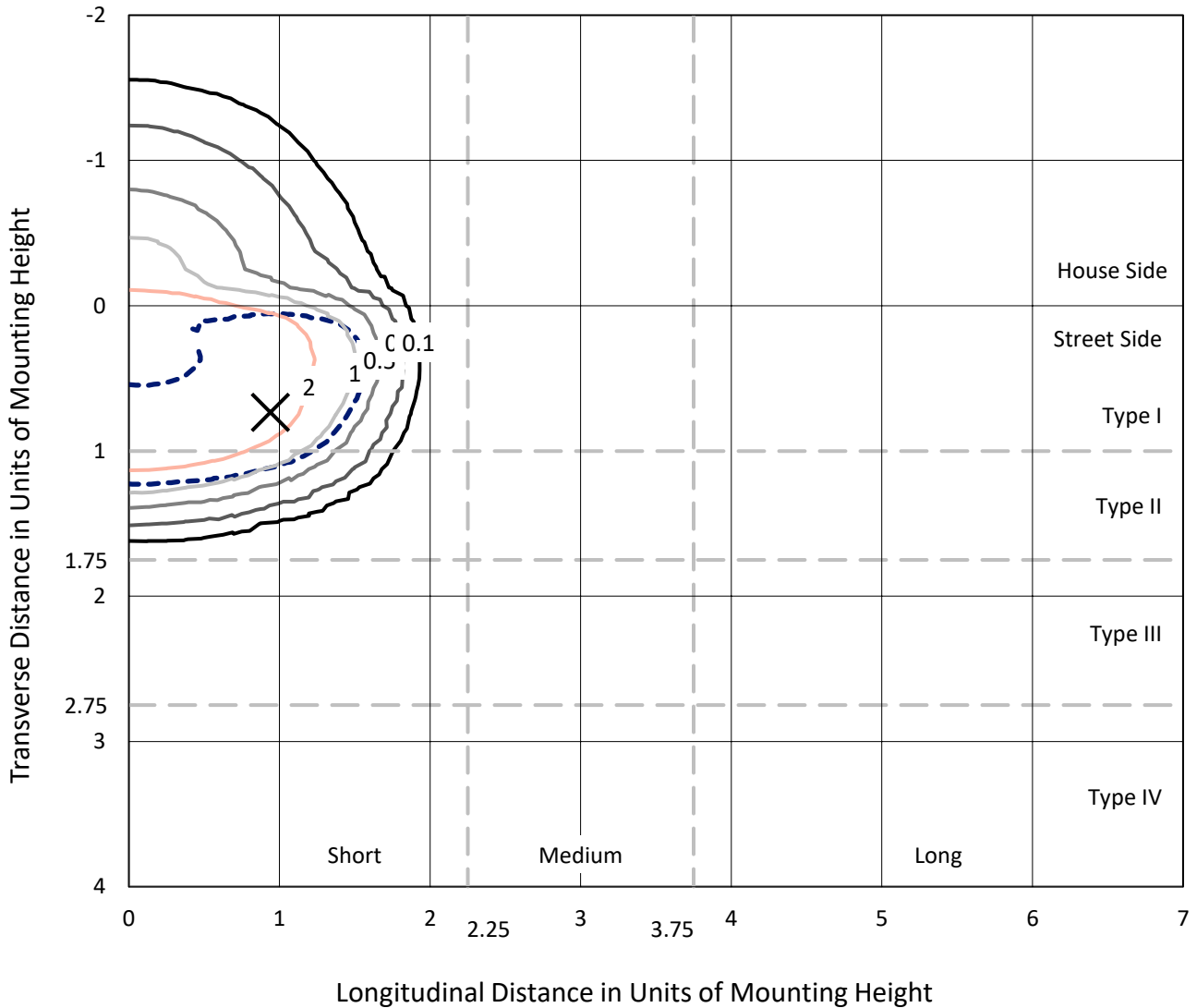
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

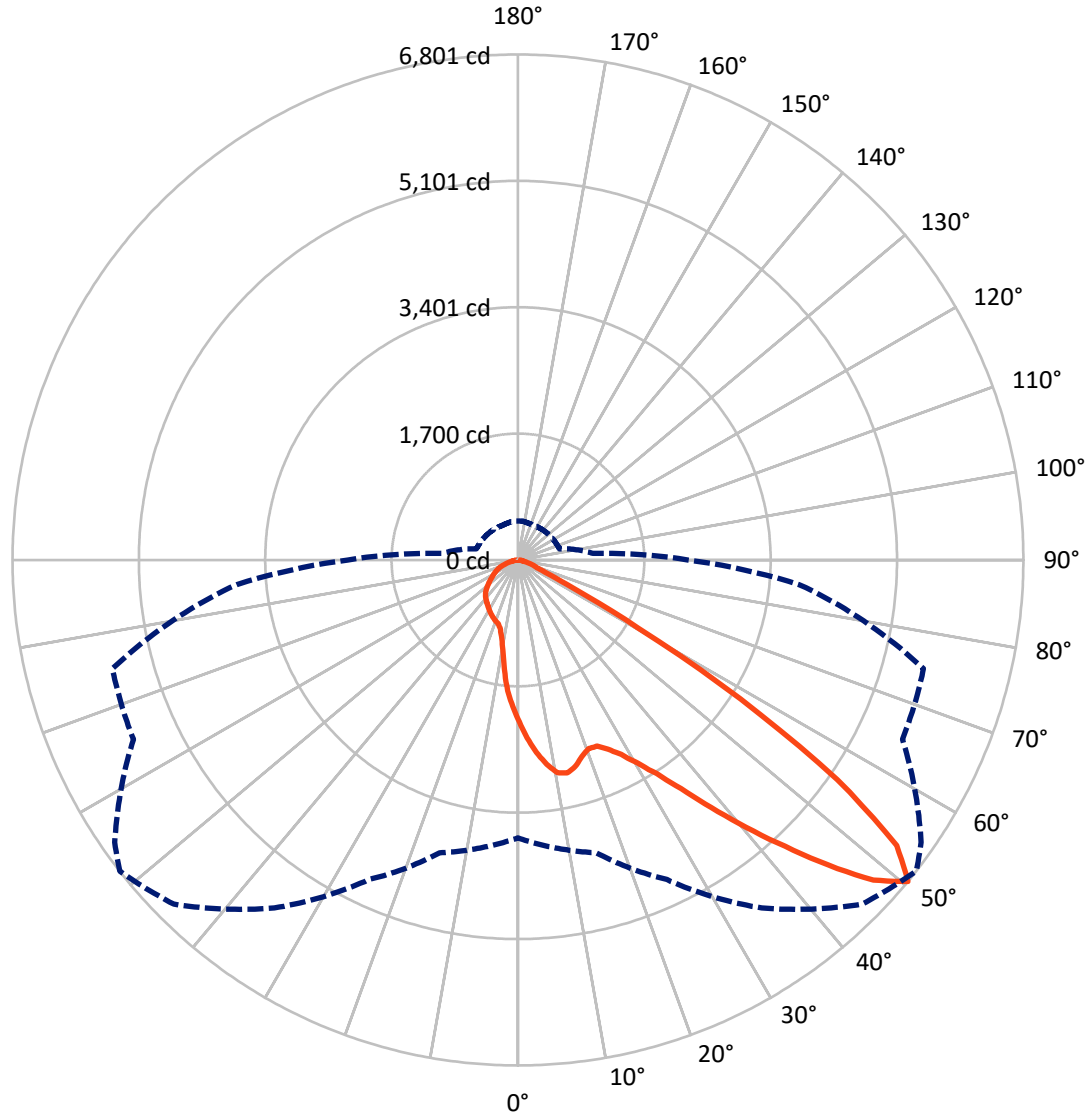
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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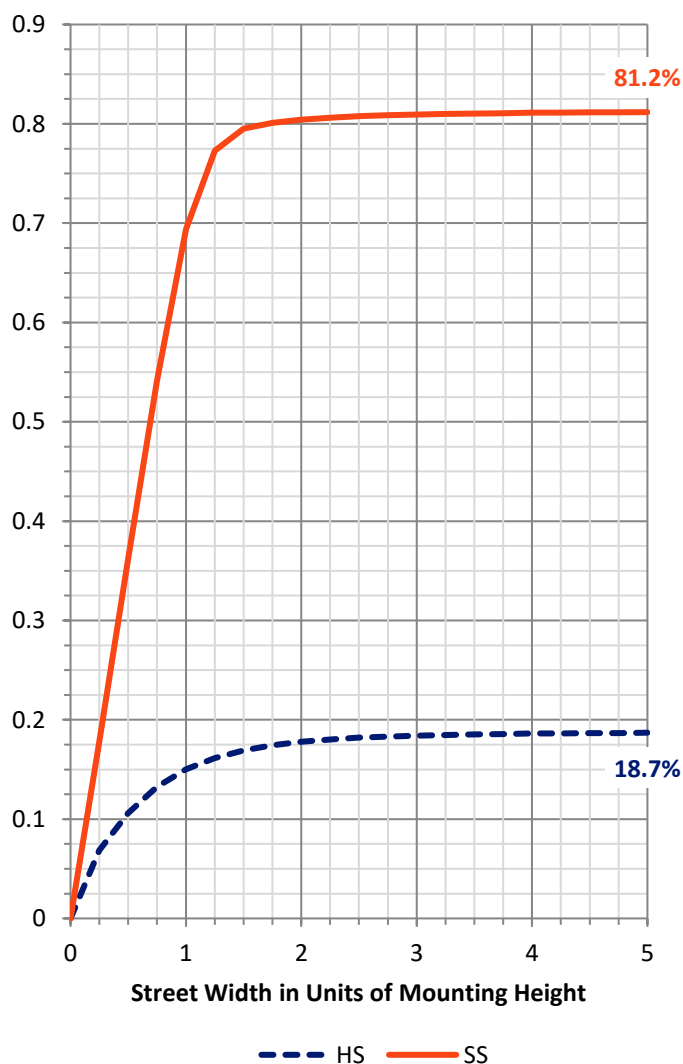
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1453.2	0.0	1453.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	6277.7	0.0	6277.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	7731.0	0.0	7731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	2.6
10°-20°	538.4	7.0
20°-30°	906.8	11.7
30°-40°	1521.7	19.7
40°-50°	2327.9	30.1
50°-60°	1697.2	22.0
60°-70°	377.7	4.9
70°-80°	136.2	1.8
80°-90°	24.1	0.3
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°	7731.0	100.0
0°-180°	7731.0	100.0

**Coefficient of Utilization**



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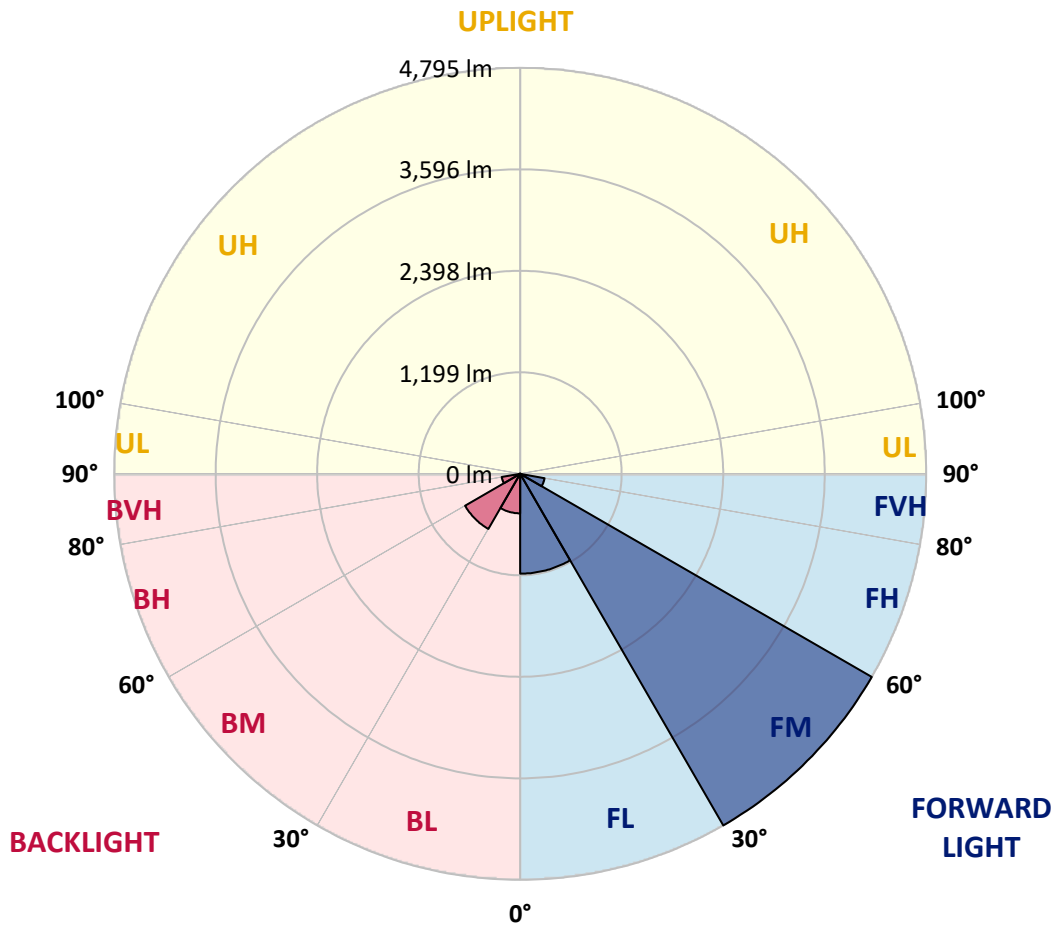
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.2	15.3			
FM (30°-60°)	4795.2	62.0			
FH (60°-80°)	292.5	3.8			G0/660
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	466.8	6.0	B1/500		
BM (30°-60°)	751.7	9.7	B1/1000		
BH (60°-80°)	221.4	2.9	B1/500		G1/500
BVH (80°-90°)	13.3	0.2			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°	52°	55°	65°	75°	85°
0°	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2565.9	2516.5	2522.1	2486.7	2448.5	2437.3	2398.2	2360.9	2333.0	2273.3	2218.4
5°	2804.4	2789.5	2767.1	2739.2	2710.3	2639.5	2599.4	2552.9	2450.4	2358.1	2266.8
7.5°	2838.9	2836.1	2848.2	2848.2	2858.4	2831.4	2774.6	2742.0	2633.0	2483.0	2313.4
10°	2596.6	2605.0	2663.7	2740.1	2846.3	2919.9	2910.6	2902.2	2783.0	2578.0	2368.4
12.5°	2403.8	2385.1	2419.6	2484.8	2644.2	2822.1	2942.3	2943.2	2912.5	2729.9	2408.4
15°	2294.8	2307.8	2317.1	2347.9	2468.1	2674.0	2885.5	2947.9	3083.0	2837.0	2471.8
17.5°	2364.6	2320.9	2319.0	2326.4	2387.9	2542.6	2780.2	2887.3	3176.2	2974.9	2550.1
20°	2456.0	2455.0	2428.9	2419.6	2418.7	2556.6	2711.2	2856.6	3225.5	3153.8	2629.3
22.5°	2616.2	2616.2	2573.3	2552.9	2509.1	2621.8	2720.6	2819.3	3307.5	3276.8	2667.5
25°	2884.5	2840.7	2767.1	2716.8	2691.7	2731.7	2819.3	2907.8	3379.3	3407.2	2746.6
27.5°	3132.4	3063.4	3027.1	2940.4	2906.9	2883.6	2963.7	3053.2	3463.1	3610.3	2789.5
30°	3413.7	3401.6	3336.4	3224.6	3141.7	3098.8	3172.4	3260.9	3616.9	3818.1	2888.3
32.5°	3916.9	3806.9	3718.4	3581.4	3446.3	3355.0	3427.7	3486.4	3872.1	4035.2	2996.3
35°	4460.0	4424.6	4271.8	4024.9	3818.1	3736.1	3779.0	3822.8	4169.3	4366.9	3178.0
37.5°	4993.9	4945.5	4819.7	4611.9	4360.3	4193.6	4224.3	4275.6	4502.9	4814.1	3399.8
40°	5377.8	5318.1	5254.8	5224.0	4974.3	4746.1	4728.4	4741.4	4953.8	5233.3	3645.7
42.5°	5405.7	5479.3	5498.9	5622.8	5564.1	5376.8	5267.8	5270.6	5384.3	5648.0	3894.5
45°	5347.0	5279.0	5423.4	5761.6	5955.4	6043.0	5859.4	5836.2	5650.7	5888.3	4018.4
47.5°	4731.2	4749.8	4993.9	5528.7	6088.6	6480.0	6437.1	6359.8	5793.3	5879.9	3998.8
50°	3739.8	3852.6	4079.0	4745.1	5716.0	6548.9	6801.4	6622.5	5708.5	5648.9	3799.5
52.5°	2490.4	2537.0	2686.1	3546.0	4596.1	5853.9	6382.1	6423.1	5630.2	5346.1	3547.0
55°	1108.7	1105.0	1314.6	1852.2	2883.6	4454.4	5214.7	5464.4	5329.3	5037.7	3301.0
57.5°	469.6	485.4	571.1	800.3	1418.0	2687.9	3533.0	3751.9	4098.5	4136.7	2532.4
60°	317.7	319.6	342.9	400.6	593.5	1262.5	1853.1	2115.9	2363.7	2346.9	1343.5
62.5°	249.7	256.2	273.9	297.2	352.2	573.0	829.2	975.5	991.3	833.9	509.6
65°	213.4	214.3	232.0	251.6	275.8	333.5	399.7	407.2	411.8	396.9	374.5
67.5°	176.1	178.0	191.9	214.3	236.7	255.3	273.9	283.2	304.7	346.6	341.0
70°	139.8	142.5	154.7	173.3	193.8	205.0	228.3	236.7	256.2	288.8	301.9
72.5°	106.2	107.1	117.4	130.4	149.1	160.3	179.8	189.1	202.2	230.1	242.2
75°	76.4	79.2	86.6	93.2	96.0	103.4	122.1	132.3	150.9	163.0	164.0
77.5°	40.1	41.9	43.8	43.8	53.1	67.1	79.2	84.8	97.8	107.1	102.5
80°	15.8	16.8	21.4	28.9	37.3	48.4	56.8	59.6	70.8	76.4	79.2
82.5°	9.3	10.2	14.0	20.5	27.0	34.5	41.0	43.8	51.2	57.8	59.6
85°	4.7	5.6	8.4	13.0	17.7	21.4	20.5	19.6	19.6	18.6	19.6
87.5°	1.9	1.9	2.8	2.8	2.8	3.7	4.7	4.7	4.7	5.6	5.6
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°	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2182.0	2144.8	2110.3	2046.9	1978.0	1958.4	1878.3	1849.4	1828.9	1804.7	1797.2
5°	2193.2	2143.8	2033.0	1905.3	1803.8	1673.3	1587.6	1495.4	1428.3	1411.5	1406.9
7.5°	2216.5	2131.7	1940.7	1747.9	1540.1	1363.1	1228.0	1155.3	1091.0	1087.3	1080.8
10°	2242.6	2095.4	1840.1	1537.3	1271.8	1107.8	1026.7	995.1	979.2	975.5	973.6
12.5°	2264.0	2087.9	1727.4	1332.3	1081.7	982.9	958.7	955.9	962.4	964.3	968.0
15°	2273.3	2058.1	1591.3	1148.8	963.4	927.0	937.3	948.5	953.1	965.2	955.9
17.5°	2291.0	2019.9	1423.6	1003.4	897.2	903.7	921.4	934.5	941.9	950.3	938.2
20°	2300.4	1985.4	1266.2	916.8	873.9	886.0	910.3	920.5	929.8	933.6	919.6
22.5°	2292.0	1914.6	1127.4	846.9	851.6	867.4	888.8	900.0	894.4	879.5	871.1
25°	2269.6	1814.9	982.9	802.2	819.9	847.8	864.6	856.2	846.0	837.6	834.8
27.5°	2268.7	1692.9	878.6	761.2	792.9	831.1	825.5	818.0	822.7	816.2	808.7
30°	2273.3	1574.6	792.9	737.9	773.3	791.9	798.5	791.0	796.6	784.5	788.2
32.5°	2249.1	1459.0	737.0	710.9	750.0	749.1	770.5	776.1	763.1	737.9	741.6
35°	2259.4	1365.9	689.5	698.8	723.9	723.9	740.7	734.2	699.7	684.8	688.5
37.5°	2330.2	1274.6	666.2	682.0	698.8	706.2	700.6	672.7	664.3	664.3	666.2
40°	2397.3	1196.3	652.2	678.3	675.5	680.1	639.1	641.9	641.9	642.9	638.2
42.5°	2456.9	1143.2	641.0	655.9	660.6	636.3	611.2	608.4	614.9	614.0	610.3
45°	2478.3	1099.4	625.2	630.8	634.5	594.4	582.3	576.7	584.2	587.0	590.7
47.5°	2396.3	1063.1	607.5	596.3	588.8	562.7	546.9	536.7	546.0	561.8	565.5
50°	2291.0	1015.6	579.5	558.1	542.2	531.1	519.9	509.6	516.2	527.3	524.5
52.5°	2135.5	941.0	544.1	521.8	494.7	497.5	487.3	481.7	485.4	485.4	482.6
55°	1913.7	773.3	484.5	468.6	446.3	453.7	455.6	448.1	440.7	447.2	441.6
57.5°	1306.2	546.0	432.3	432.3	409.9	420.2	419.3	401.6	383.9	385.7	382.0
60°	755.6	435.1	398.8	395.0	371.7	380.1	382.0	369.9	342.9	344.7	341.0
62.5°	429.5	371.7	348.5	342.9	338.2	345.7	345.7	329.8	306.5	308.4	304.7
65°	365.2	344.7	311.2	310.3	308.4	310.3	302.8	286.0	265.5	257.1	258.1
67.5°	331.7	318.6	286.0	277.6	272.1	271.1	257.1	241.3	232.0	224.5	223.6
70°	290.7	280.4	256.2	245.0	239.4	226.4	212.4	202.2	189.1	185.4	189.1
72.5°	230.1	229.2	219.9	207.8	195.7	185.4	173.3	159.3	147.2	144.4	137.9
75°	159.3	161.2	163.0	161.2	150.9	137.9	123.9	112.7	97.8	89.4	87.6
77.5°	104.4	107.1	109.9	106.2	99.7	87.6	78.3	64.3	53.1	46.6	45.7
80°	76.4	80.1	82.0	79.2	71.7	62.4	52.2	41.0	32.6	27.0	27.0
82.5°	58.7	62.4	64.3	59.6	52.2	44.7	37.3	28.9	22.4	17.7	16.8
85°	20.5	19.6	23.3	24.2	28.9	27.0	22.4	16.8	13.0	9.3	8.4
87.5°	5.6	5.6	6.5	6.5	5.6	4.7	4.7	4.7	3.7	2.8	2.8
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)