

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: P528557

Luminaire Tested: **GALN-SA3C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9383 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

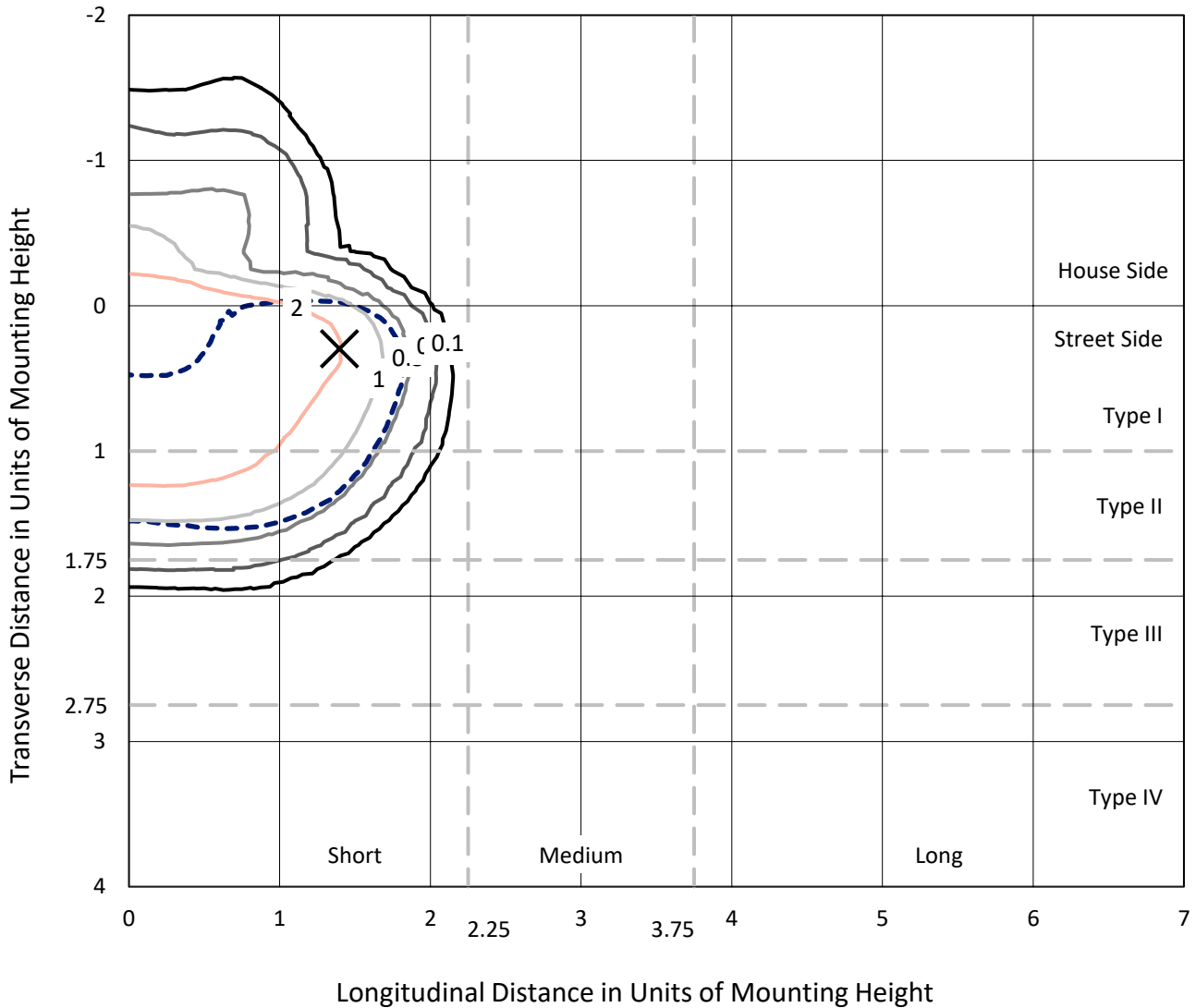
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

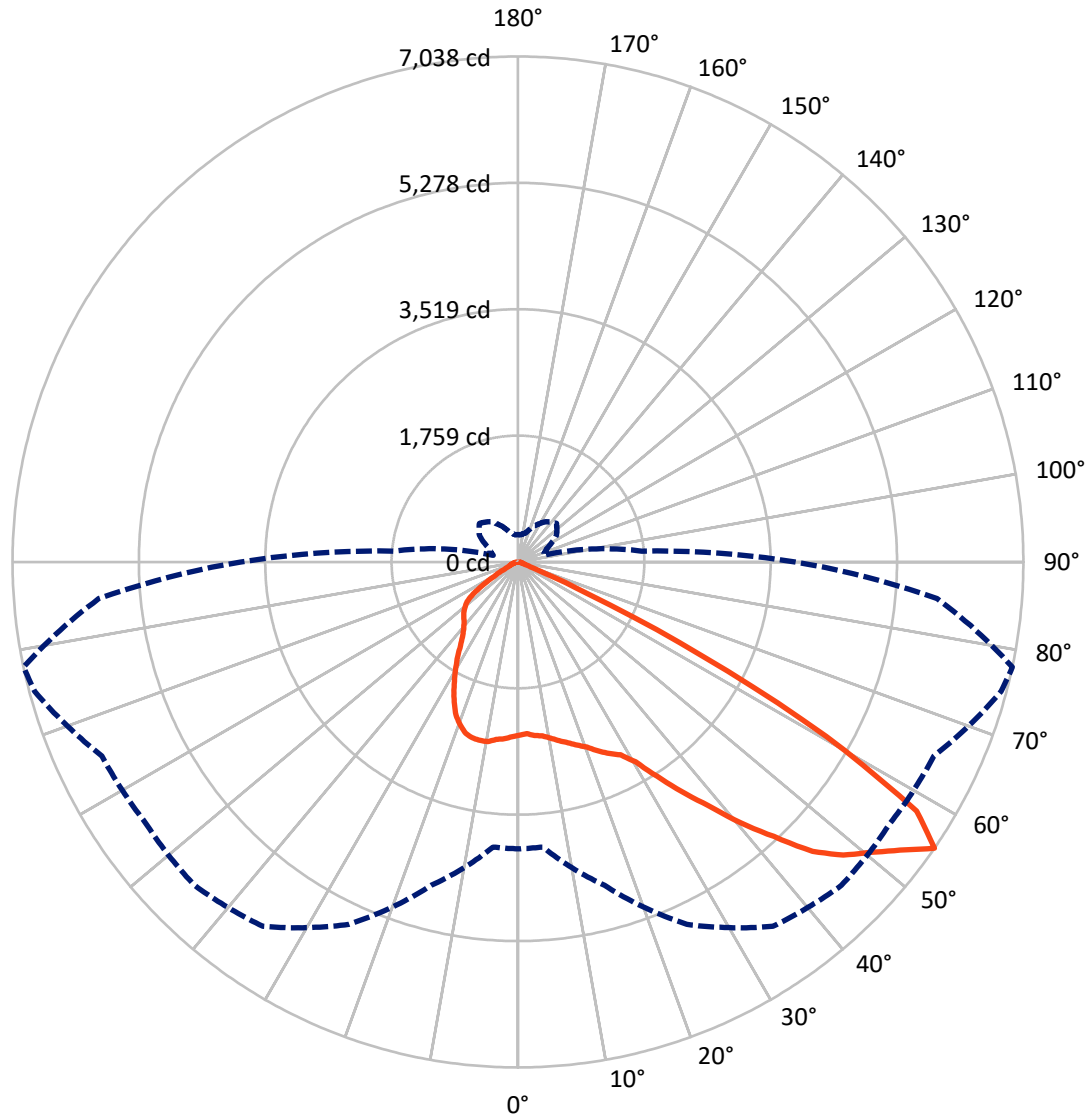
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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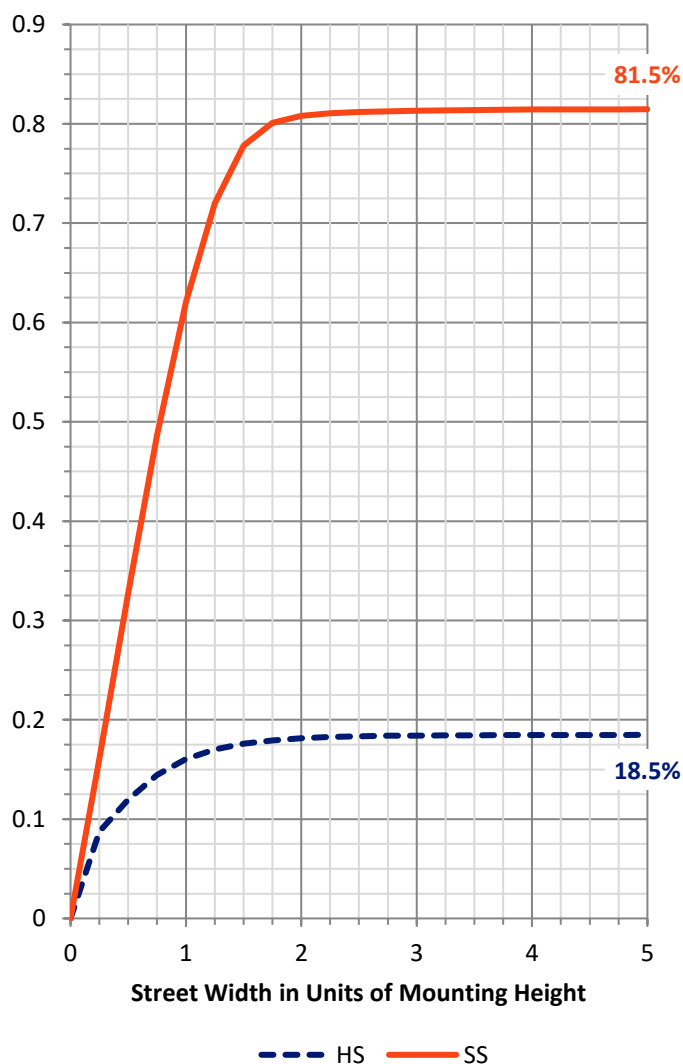
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1742.8	0.0	1742.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7640.2	0.0	7640.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	9383.0	0.0	9383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.1	2.3
10°-20°	569.3	6.1
20°-30°	997.9	10.6
30°-40°	1645.3	17.5
40°-50°	2394.2	25.5
50°-60°	2712.8	28.9
60°-70°	775.6	8.3
70°-80°	60.2	0.6
80°-90°	12.5	0.1
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°	9383.0	100.0
0°-180°	9383.0	100.0

**Coefficient of Utilization**



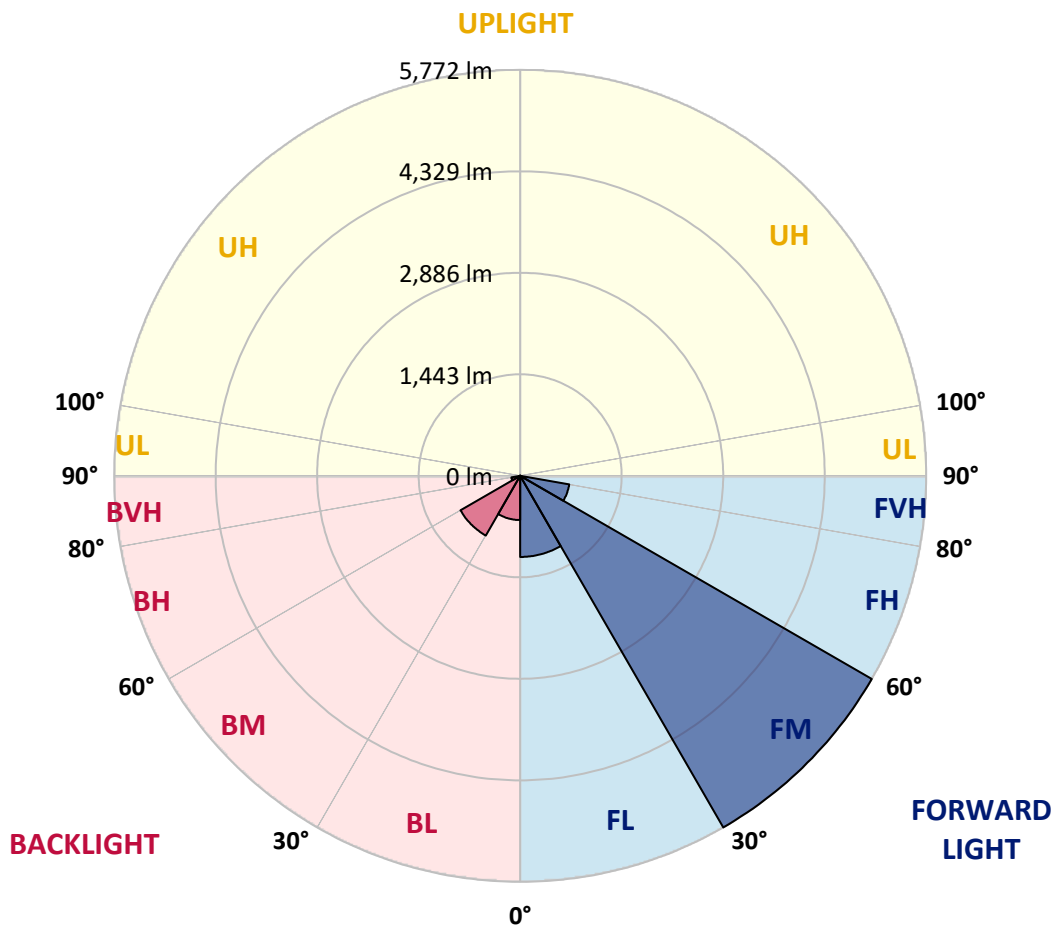
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.4	12.3			
FM (30°-60°)	5772.0	61.5			
FH (60°-80°)	708.7	7.6			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	628.8	6.7	B2/1000		
BM (30°-60°)	980.3	10.4	B1/1000		
BH (60°-80°)	127.2	1.4	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4
2.5°	2268.1	2289.9	2293.3	2320.1	2318.4	2363.7	2377.1	2378.8	2409.0	2393.9	2432.5
5°	2204.4	2192.6	2187.6	2234.6	2248.0	2288.2	2321.8	2341.9	2404.0	2425.8	2466.1
7.5°	2147.3	2147.3	2150.7	2192.6	2187.6	2239.6	2274.8	2336.9	2427.5	2445.9	2494.6
10°	2092.0	2071.8	2097.0	2140.6	2177.5	2201.0	2274.8	2333.5	2439.2	2492.9	2560.0
12.5°	2063.4	2073.5	2076.9	2108.7	2149.0	2219.5	2259.7	2357.0	2523.1	2555.0	2627.1
15°	2242.9	2222.8	2174.2	2145.6	2179.2	2212.7	2313.4	2412.4	2566.7	2612.0	2692.5
17.5°	2451.0	2434.2	2393.9	2316.8	2241.3	2303.3	2382.2	2472.8	2613.7	2680.8	2799.9
20°	2722.7	2695.9	2655.6	2504.6	2439.2	2372.1	2456.0	2563.4	2690.9	2751.2	2873.7
22.5°	3046.5	3046.5	2955.9	2773.1	2637.2	2573.4	2608.7	2670.7	2776.4	2858.6	2979.4
25°	3383.7	3373.6	3291.4	3101.9	2872.0	2796.5	2836.8	2880.4	2908.9	2954.2	3034.8
27.5°	3769.5	3710.8	3606.8	3397.1	3194.1	3048.2	3091.8	3053.2	3018.0	3041.5	3157.2
30°	4031.2	4068.2	3935.6	3734.3	3543.1	3380.3	3388.7	3355.2	3194.1	3227.7	3296.5
32.5°	4303.0	4326.5	4252.7	4142.0	3950.7	3761.2	3692.4	3663.9	3543.1	3558.2	3491.1
35°	4529.5	4574.8	4509.4	4460.7	4405.4	4252.7	4063.1	4155.4	3960.8	3923.9	3749.4
37.5°	4737.5	4724.1	4801.3	4750.9	4739.2	4631.8	4423.8	4442.3	4311.4	4303.0	4101.7
40°	4923.7	4927.1	5032.8	5056.3	5009.3	4818.0	4516.1	4662.0	4767.7	4777.8	4519.4
42.5°	5078.1	5123.4	5214.0	5403.5	5333.1	5014.3	4611.7	4771.1	5163.6	5225.7	4915.3
45°	5212.3	5304.5	5416.9	5586.4	5546.1	5292.8	4849.9	4995.9	5586.4	5749.1	5287.8
47.5°	5220.7	5341.4	5463.9	5715.6	5765.9	5442.1	5096.5	5351.5	5921.9	6098.0	5559.5
50°	5187.1	5250.9	5495.8	5769.2	5883.3	5685.4	5442.1	5650.1	6247.3	6358.1	5697.1
52.5°	4789.5	4838.2	5329.7	5819.6	6094.7	5960.5	5900.1	6066.2	6579.5	6661.7	5826.3
55°	3992.7	3984.3	4660.3	5566.2	6192.0	6368.1	6331.2	6389.9	6963.7	7037.5	5858.1
57.5°	2731.1	2883.8	3467.6	4635.2	5596.4	6272.5	6311.1	6213.8	6515.8	6544.3	5106.6
60°	1472.9	1536.7	2006.4	3093.5	4261.1	5111.6	5212.3	5036.1	5012.6	4932.1	3645.4
62.5°	585.5	617.4	884.1	1531.6	2321.8	3106.9	3323.3	3251.2	3096.8	2885.5	1887.3
65°	278.5	298.6	439.5	716.3	1030.0	1295.1	1511.5	1578.6	1164.2	1048.5	622.4
67.5°	189.6	204.7	320.4	409.3	367.4	384.2	499.9	464.7	273.4	233.2	172.8
70°	144.3	154.3	256.7	278.5	164.4	115.8	129.2	120.8	112.4	114.1	112.4
72.5°	102.3	110.7	187.9	164.4	72.1	53.7	68.8	82.2	82.2	82.2	80.5
75°	62.1	70.5	109.0	63.7	28.5	28.5	43.6	55.4	58.7	60.4	57.0
77.5°	31.9	40.3	36.9	18.5	18.5	21.8	31.9	38.6	41.9	41.9	40.3
80°	6.7	6.7	6.7	10.1	18.5	23.5	31.9	35.2	40.3	40.3	36.9
82.5°	0.0	1.7	5.0	10.1	16.8	21.8	30.2	35.2	40.3	41.9	38.6
85°	0.0	1.7	3.4	6.7	11.7	13.4	11.7	10.1	10.1	10.1	10.1
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4	2412.4
2.5°	2435.9	2440.9	2432.5	2430.8	2424.1	2444.2	2395.6	2383.9	2414.1	2385.5	2392.2
5°	2467.7	2479.5	2464.4	2439.2	2402.3	2345.3	2296.6	2232.9	2202.7	2180.9	2177.5
7.5°	2491.2	2499.6	2484.5	2404.0	2293.3	2149.0	2041.6	1962.8	1900.7	1882.3	1852.1
10°	2586.8	2588.5	2513.0	2335.2	2118.8	1929.2	1764.8	1644.0	1582.0	1543.4	1526.6
12.5°	2650.6	2647.2	2494.6	2199.3	1910.8	1659.1	1471.2	1325.3	1268.3	1249.8	1238.1
15°	2731.1	2712.7	2451.0	2060.1	1642.4	1370.6	1201.2	1100.5	1095.5	1083.7	1095.5
17.5°	2794.9	2742.9	2387.2	1806.8	1385.7	1129.0	1018.3	1025.0	1038.4	1050.2	1051.8
20°	2898.9	2791.5	2241.3	1585.3	1147.5	968.0	966.3	996.5	1030.0	1043.5	1056.9
22.5°	2977.7	2811.6	2085.2	1348.8	952.9	902.5	931.1	976.4	1001.5	1014.9	1035.1
25°	3006.2	2756.3	1877.2	1112.2	858.9	872.3	916.0	946.2	978.0	993.1	984.7
27.5°	3034.8	2727.8	1628.9	916.0	808.6	852.2	889.1	919.3	929.4	949.5	962.9
30°	3103.5	2628.8	1405.8	791.8	783.4	838.8	865.6	875.7	902.5	914.3	914.3
32.5°	3158.9	2590.2	1169.3	733.1	780.1	845.5	848.9	848.9	852.2	843.8	840.5
35°	3273.0	2457.7	957.9	697.9	778.4	847.2	855.6	827.1	749.9	719.7	711.3
37.5°	3413.9	2372.1	801.9	689.5	790.1	867.3	880.7	773.4	672.7	624.1	615.7
40°	3585.0	2311.7	699.6	686.1	817.0	914.3	874.0	731.4	600.6	530.1	526.8
42.5°	3784.6	2256.4	630.8	684.5	850.5	962.9	867.3	696.2	526.8	479.8	486.5
45°	3944.0	2226.2	583.8	672.7	862.3	991.5	872.3	634.1	496.6	466.4	469.7
47.5°	4068.2	2162.4	545.2	652.6	860.6	1001.5	827.1	609.0	481.5	489.9	498.2
50°	4071.5	2076.9	496.6	609.0	835.4	983.1	775.0	585.5	478.1	513.3	530.1
52.5°	4026.2	1956.1	444.6	546.9	776.7	919.3	728.1	575.4	463.0	459.7	479.8
55°	3865.2	1729.6	357.3	442.9	655.9	758.3	686.1	557.0	417.7	379.1	382.5
57.5°	3123.7	1239.7	263.4	317.1	464.7	555.3	619.0	548.6	375.8	322.1	323.8
60°	1934.3	702.9	192.9	216.4	286.9	337.2	501.6	510.0	335.5	271.8	268.4
62.5°	993.1	347.3	149.3	152.7	176.1	198.0	343.9	427.8	303.6	258.3	258.3
65°	332.2	171.1	130.9	117.4	117.4	122.5	208.0	296.9	256.7	216.4	216.4
67.5°	142.6	127.5	114.1	102.3	93.9	88.9	117.4	172.8	191.2	164.4	157.7
70°	110.7	107.4	99.0	85.6	73.8	67.1	68.8	88.9	109.0	105.7	102.3
72.5°	82.2	82.2	78.8	67.1	57.0	48.7	45.3	47.0	52.0	53.7	55.4
75°	57.0	58.7	58.7	52.0	41.9	35.2	30.2	25.2	20.1	16.8	15.1
77.5°	38.6	40.3	43.6	38.6	31.9	23.5	18.5	13.4	8.4	3.4	3.4
80°	33.6	38.6	41.9	38.6	33.6	25.2	18.5	10.1	5.0	0.0	0.0
82.5°	35.2	38.6	43.6	36.9	31.9	23.5	18.5	11.7	5.0	1.7	0.0
85°	8.4	8.4	10.1	11.7	15.1	16.8	13.4	8.4	5.0	1.7	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0
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)