

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: P530895

Luminaire Tested: **GALN-SA6A-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11905 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

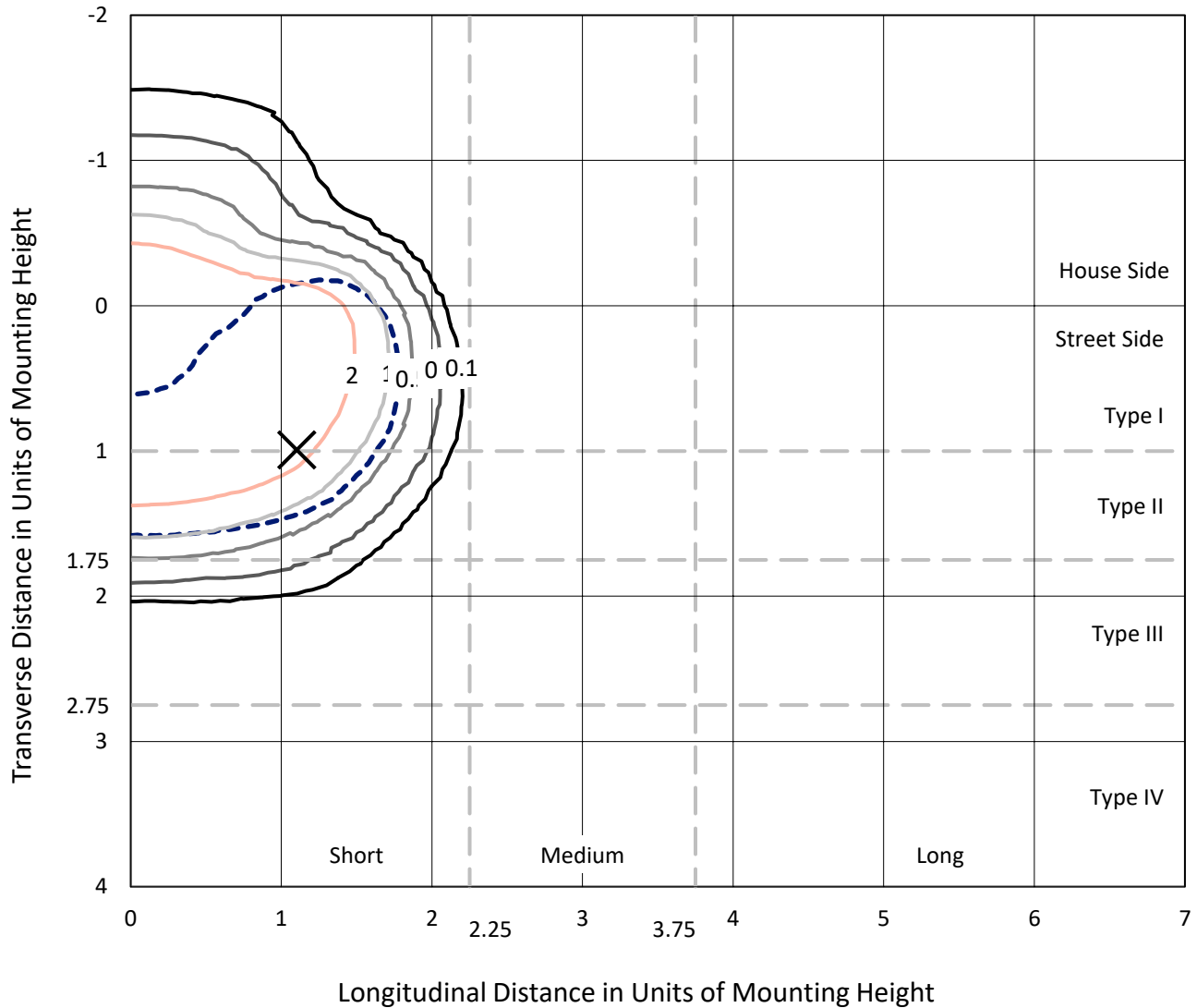
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

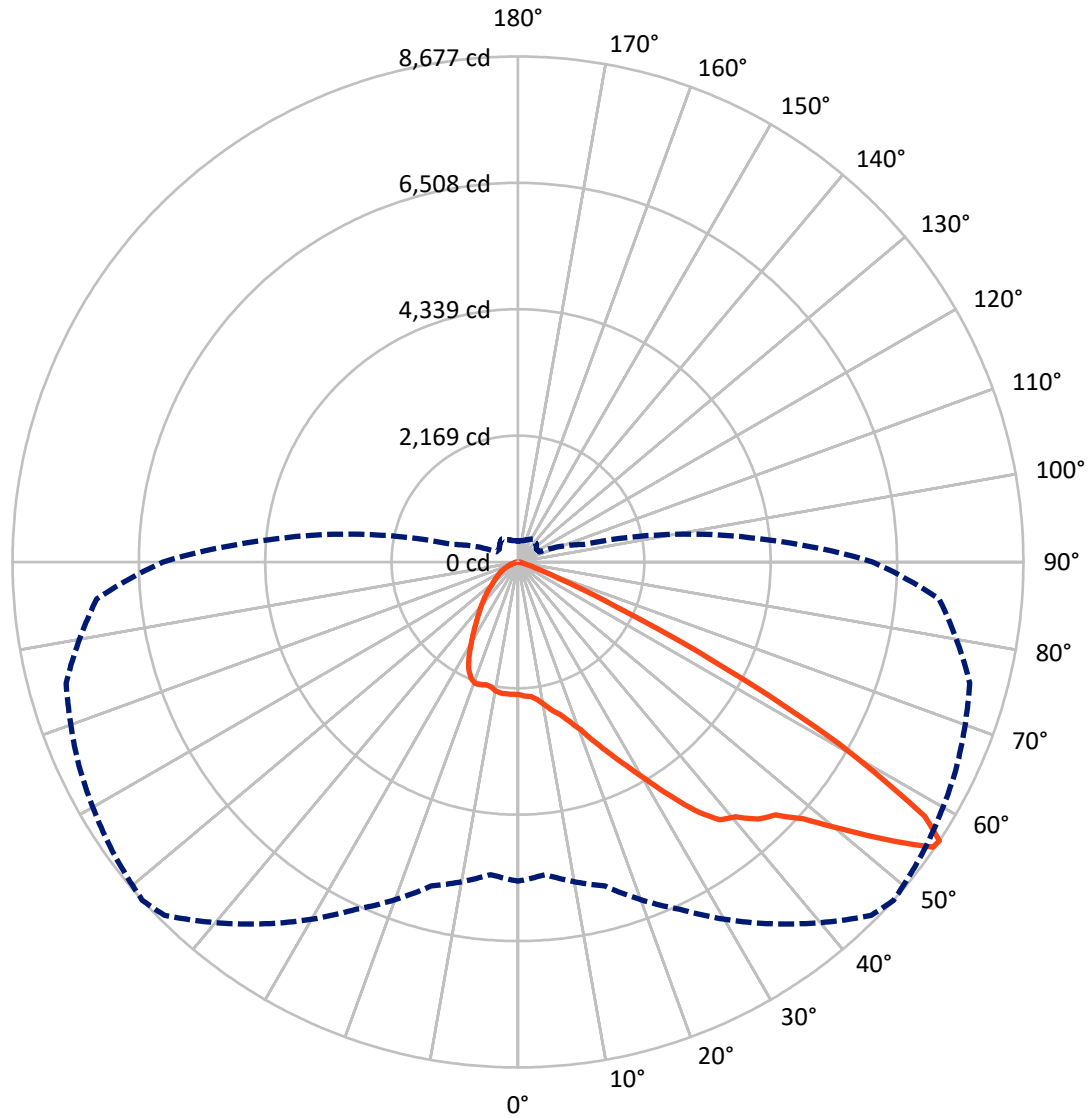
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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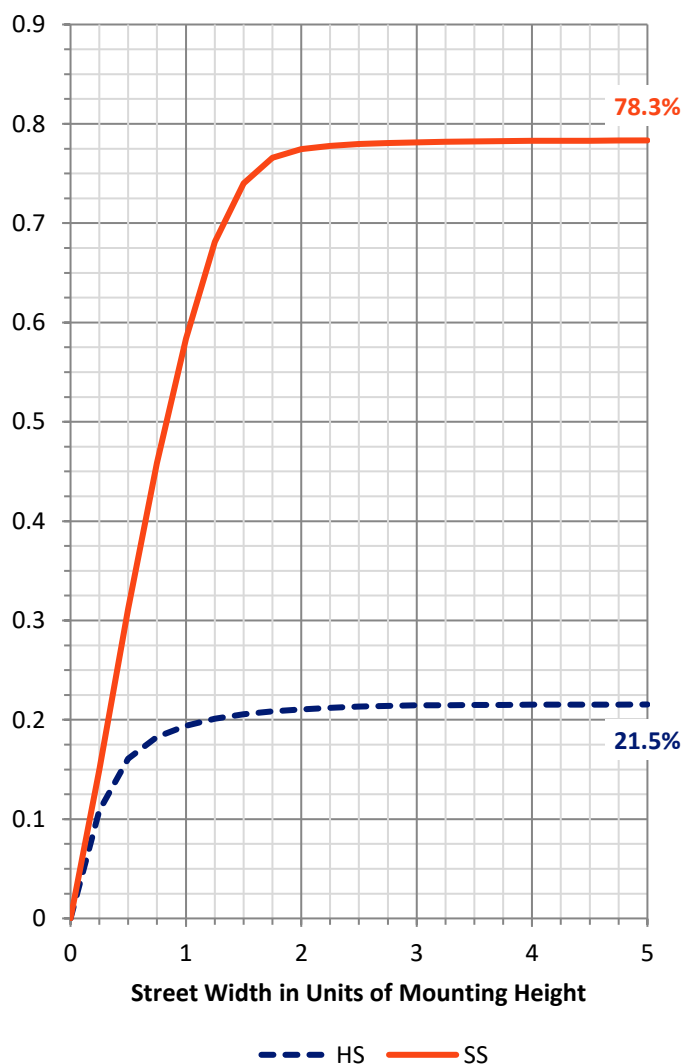
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.1	0.0	2589.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9315.9	0.0	9315.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	11905.0	0.0	11905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.9
10°-20°	707.9	5.9
20°-30°	1283.9	10.8
30°-40°	2016.8	16.9
40°-50°	2942.2	24.7
50°-60°	3544.7	29.8
60°-70°	1037.9	8.7
70°-80°	131.7	1.1
80°-90°	18.5	0.2
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°	11905.0	100.0
0°-180°	11905.0	100.0

Coefficient of Utilization

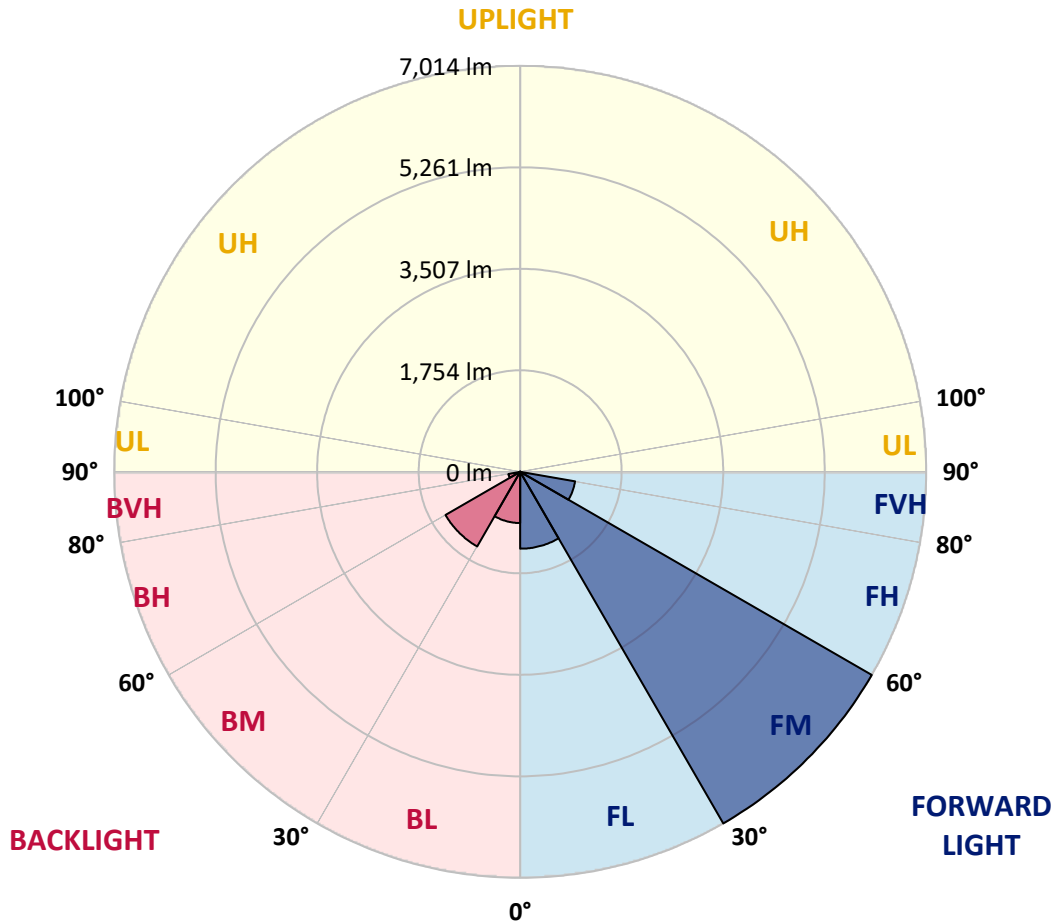


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.4	11.2			
FM (30°-60°)	7014.5	58.9			
FH (60°-80°)	963.8	8.1			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	884.9	7.4	B2/1000		
BM (30°-60°)	1489.3	12.5	B2/2500		
BH (60°-80°)	205.7	1.7	B1/500		G1/500
BVH (80°-90°)	9.2	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°	48°	55°	65°	75°	85°
0°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2315.0	2304.2	2304.2	2286.9	2306.4	2297.7	2304.2	2282.5	2304.2	2271.7	2297.7
5°	2325.9	2328.1	2319.4	2330.2	2330.2	2343.2	2321.5	2341.1	2351.9	2328.1	2317.2
7.5°	2382.2	2386.6	2384.4	2375.7	2393.1	2390.9	2388.7	2373.6	2377.9	2369.2	2356.2
10°	2492.8	2490.6	2501.5	2479.8	2466.8	2482.0	2486.3	2462.4	2445.1	2438.6	2397.4
12.5°	2653.2	2627.2	2612.0	2590.3	2596.8	2575.2	2614.2	2573.0	2564.3	2525.3	2484.1
15°	2783.3	2778.9	2781.1	2746.4	2707.4	2716.1	2716.1	2694.4	2681.4	2633.7	2575.2
17.5°	3049.9	2958.8	2978.3	2935.0	2902.5	2900.3	2880.8	2885.1	2850.5	2750.7	2661.9
20°	3258.0	3219.0	3188.6	3114.9	3065.1	3080.2	3071.6	3049.9	3039.0	2909.0	2783.3
22.5°	3444.4	3457.4	3407.5	3388.0	3318.7	3325.2	3342.5	3323.0	3240.6	3106.2	2919.8
25°	3706.7	3691.5	3624.3	3600.5	3535.4	3559.3	3626.5	3611.3	3559.3	3316.5	3026.0
27.5°	4016.6	3964.6	3977.6	3869.2	3806.4	3873.6	3953.8	4029.7	3882.3	3563.6	3151.8
30°	4235.6	4181.4	4177.1	4172.7	4157.5	4235.6	4328.8	4398.2	4278.9	3810.7	3359.9
32.5°	4344.0	4357.0	4393.8	4380.8	4513.0	4673.4	4771.0	4870.7	4721.1	4213.9	3635.1
35°	4632.3	4549.9	4632.3	4640.9	4777.5	5117.8	5241.4	5479.8	5443.0	4784.0	3971.1
37.5°	4801.3	4794.8	4805.7	4888.0	5020.3	5440.8	5616.4	5800.6	5731.3	5126.5	4389.5
40°	5081.0	5098.3	5096.1	5159.0	5304.2	5683.6	5755.1	5904.7	5911.2	5601.2	5005.1
42.5°	5529.7	5460.3	5414.8	5479.8	5683.6	5893.8	6036.9	6006.5	6221.1	6177.8	5796.3
45°	5932.8	5974.0	5906.8	6015.2	6088.9	6201.6	6197.3	6262.3	6535.5	6741.4	6392.4
47.5°	6310.0	6336.0	6368.5	6442.2	6602.6	6620.0	6583.1	6555.0	6932.1	7144.6	6854.1
50°	6535.5	6559.3	6711.0	6843.3	7142.4	7181.4	7203.1	7131.6	7387.3	7411.2	7289.8
52.5°	6474.8	6500.8	6713.2	7148.9	7625.8	7983.4	7918.4	7797.0	7781.8	7875.1	7693.0
55°	5937.2	5913.3	6206.0	6884.4	7777.5	8635.9	8644.6	8516.7	8271.7	8208.9	7632.3
56°	5479.8	5386.6	5759.4	6578.8	7582.4	8579.5	8677.1	8540.5	8310.8	8029.0	7257.3
57.5°	4489.2	4578.1	4948.7	5627.2	6908.3	8174.2	8230.6	8198.0	8024.6	7552.1	6385.9
60°	2475.5	2631.5	2958.8	3789.0	4918.4	6273.2	6318.7	6583.1	6615.7	5783.3	4393.8
62.5°	1051.3	1034.0	1374.3	1985.6	2800.6	3786.9	3871.4	4142.4	4192.2	3333.8	2204.5
65°	427.0	450.9	622.1	999.3	1480.5	1725.4	1844.7	1933.5	2098.3	1376.5	812.9
67.5°	281.8	279.6	366.3	570.1	797.7	769.5	769.5	812.9	752.2	561.4	351.2
70°	201.6	208.1	262.3	394.5	496.4	368.5	353.3	338.2	383.7	370.7	284.0
72.5°	132.2	140.9	175.6	236.3	257.9	201.6	201.6	242.8	316.5	299.1	231.9
75°	86.7	88.9	108.4	136.6	127.9	104.0	114.9	162.6	229.8	221.1	164.7
77.5°	58.5	60.7	73.7	88.9	71.5	58.5	62.9	82.4	112.7	112.7	86.7
80°	21.7	23.8	30.3	28.2	32.5	41.2	45.5	56.4	67.2	67.2	58.5
82.5°	0.0	2.2	6.5	15.2	23.8	32.5	36.8	43.4	49.9	56.4	54.2
85°	0.0	2.2	6.5	10.8	17.3	19.5	21.7	15.2	13.0	13.0	10.8
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3	2.2	2.2
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°	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9	2273.9
2.5°	2273.9	2271.7	2271.7	2265.2	2278.2	2271.7	2276.0	2273.9	2245.7	2267.4	2252.2
5°	2297.7	2312.9	2289.0	2284.7	2267.4	2273.9	2273.9	2252.2	2271.7	2269.5	2265.2
7.5°	2358.4	2332.4	2306.4	2280.4	2276.0	2269.5	2245.7	2237.0	2252.2	2234.8	2260.9
10°	2384.4	2388.7	2349.7	2315.0	2282.5	2237.0	2204.5	2185.0	2161.1	2187.2	2202.3
12.5°	2503.6	2460.3	2393.1	2338.9	2228.3	2182.8	2150.3	2141.6	2182.8	2191.5	2176.3
15°	2544.8	2538.3	2451.6	2330.2	2215.3	2161.1	2167.6	2150.3	2154.6	2133.0	2137.3
17.5°	2629.4	2555.7	2453.8	2302.0	2213.2	2200.2	2161.1	2091.8	2052.8	2035.4	2050.6
20°	2722.6	2651.0	2503.6	2312.9	2232.7	2198.0	2070.1	1985.6	1905.4	1862.0	1864.2
22.5°	2804.9	2716.1	2482.0	2317.2	2250.0	2107.0	1953.0	1786.1	1686.4	1619.2	1621.4
25°	2904.6	2778.9	2490.6	2325.9	2204.5	1961.7	1740.6	1578.0	1458.8	1413.3	1428.5
27.5°	2961.0	2817.9	2538.3	2345.4	2085.3	1755.8	1517.4	1365.6	1296.3	1274.6	1272.4
30°	3130.1	2904.6	2596.8	2306.4	1885.9	1534.7	1313.6	1220.4	1153.2	1133.7	1138.0
32.5°	3381.5	3062.9	2672.7	2204.5	1682.1	1337.4	1181.4	1112.0	1049.1	1012.3	1008.0
35°	3591.8	3333.8	2752.9	2046.3	1445.8	1185.7	1088.2	1001.5	906.1	864.9	854.1
37.5°	3992.8	3639.5	2735.6	1807.8	1220.4	1073.0	988.4	882.2	799.9	743.5	737.0
40°	4526.0	3997.1	2651.0	1517.4	1053.5	973.3	882.2	780.4	678.5	630.8	626.4
42.5°	5174.2	4435.0	2497.1	1222.6	886.6	873.6	791.2	674.1	583.1	548.4	550.6
45°	5700.9	4810.0	2341.1	981.9	763.0	776.0	704.5	593.9	531.1	502.9	502.9
47.5°	6169.1	5063.6	2172.0	810.7	648.1	678.5	615.6	550.6	496.4	474.7	470.4
50°	6620.0	5321.6	2002.9	656.8	552.7	583.1	576.6	524.6	481.2	455.2	457.4
52.5°	6901.8	5362.8	1788.3	537.6	483.4	518.1	539.7	492.1	444.4	429.2	424.9
55°	6557.1	4831.7	1387.3	442.2	409.7	455.2	496.4	442.2	405.3	379.3	377.2
56°	6093.3	4320.1	1159.7	407.5	388.0	437.9	481.2	422.7	381.5	366.3	355.5
57.5°	5159.0	3535.4	856.2	362.0	359.8	407.5	457.4	403.2	355.5	342.5	342.5
60°	3216.8	1989.9	518.1	303.5	312.1	362.0	411.9	359.8	316.5	316.5	323.0
62.5°	1465.3	828.0	314.3	257.9	268.8	312.1	366.3	325.1	301.3	325.1	329.5
65°	498.6	357.7	227.6	205.9	212.4	257.9	314.3	329.5	327.3	342.5	351.2
67.5°	279.6	229.8	190.8	171.2	166.9	190.8	257.9	329.5	316.5	310.0	314.3
70°	236.3	195.1	169.1	151.7	145.2	153.9	199.4	249.3	223.3	216.8	212.4
72.5°	190.8	162.6	147.4	136.6	117.1	99.7	91.0	95.4	106.2	112.7	123.6
75°	134.4	123.6	123.6	110.5	84.5	62.9	49.9	41.2	28.2	19.5	21.7
77.5°	75.9	75.9	78.0	67.2	54.2	41.2	30.3	21.7	10.8	4.3	2.2
80°	52.0	56.4	60.7	54.2	45.5	36.8	26.0	15.2	6.5	0.0	0.0
82.5°	52.0	58.5	62.9	54.2	45.5	34.7	26.0	15.2	6.5	2.2	0.0
85°	10.8	13.0	15.2	17.3	26.0	26.0	19.5	13.0	6.5	2.2	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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)