

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: P529259

Luminaire Tested: **GALN-SA4B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529259
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-SA4B-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 10064 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

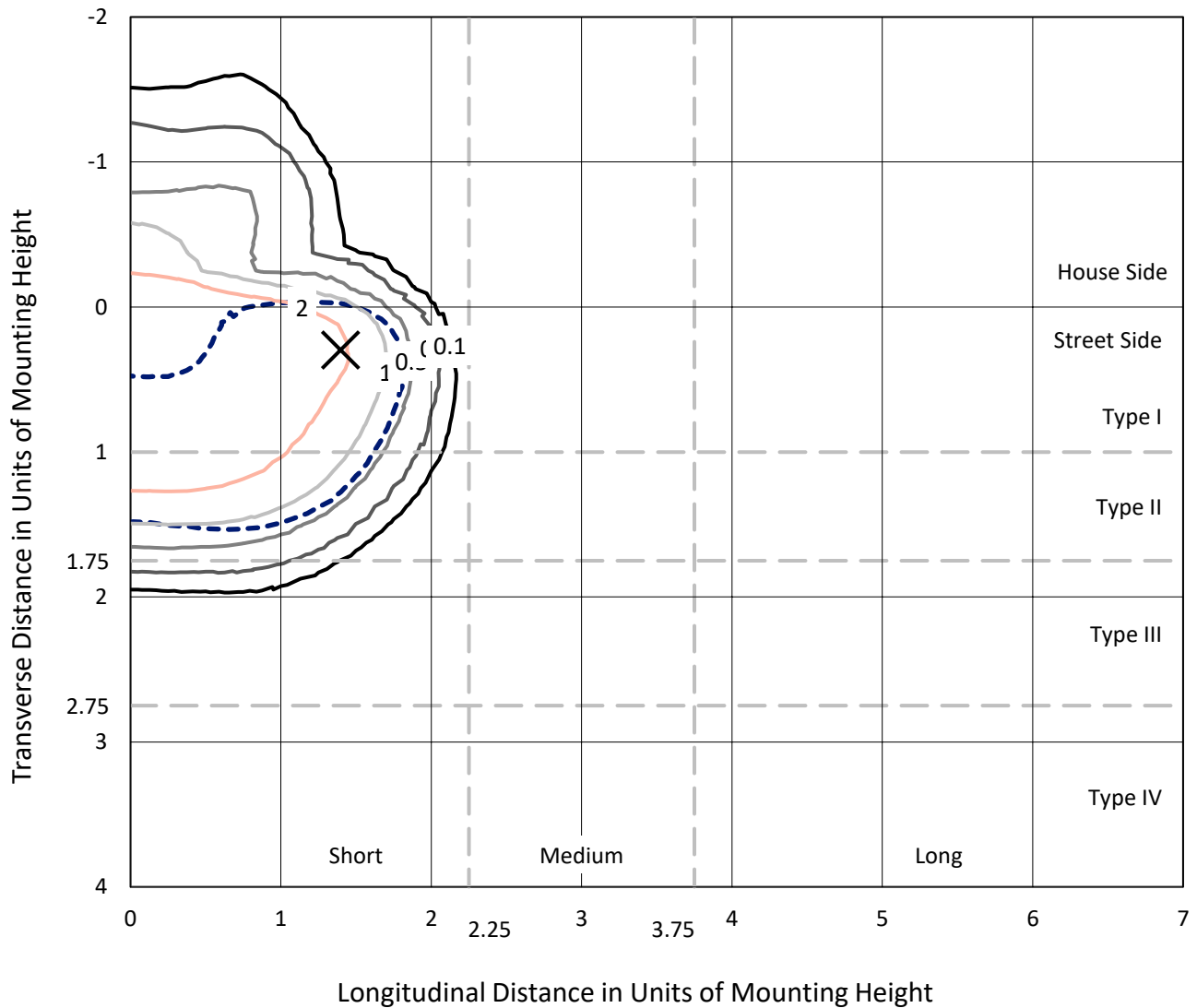
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

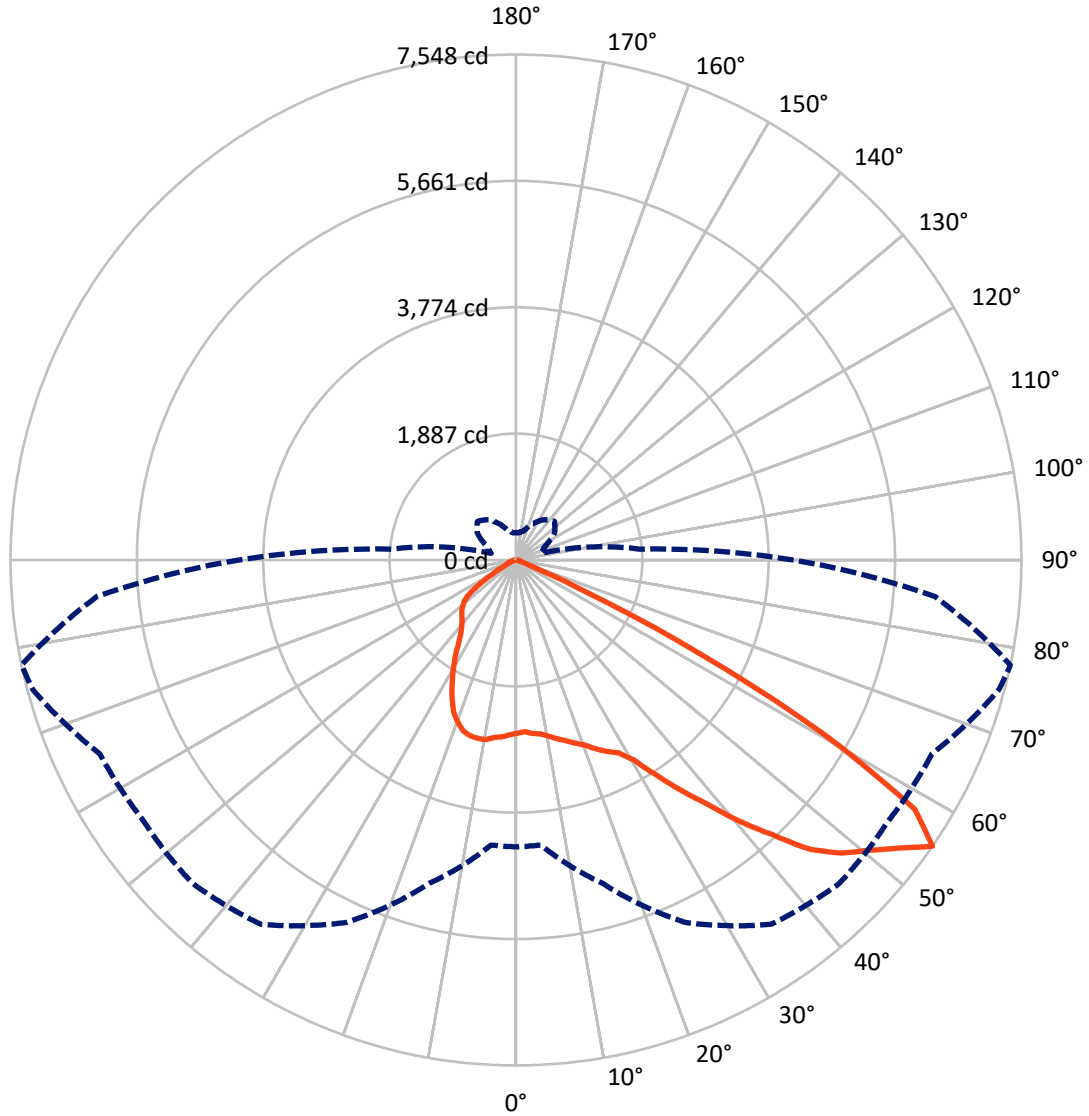
✕ Max cd
 - - - 1/2 Max cd



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

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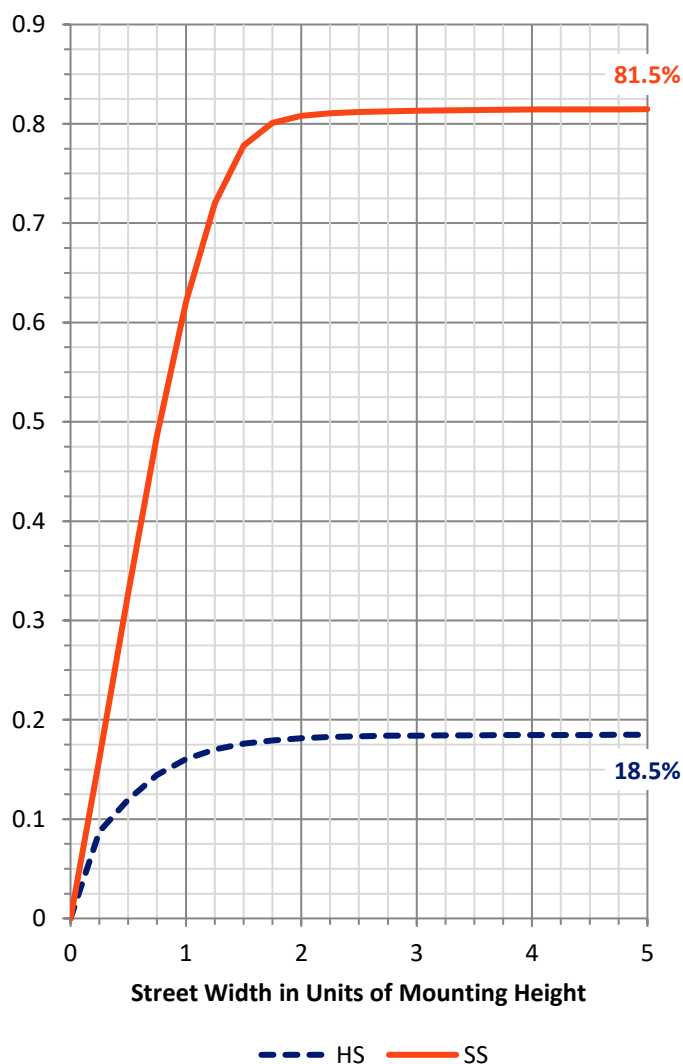
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.3	0.0	1869.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8194.7	0.0	8194.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	10064.0	0.0	10064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	2.3
10°-20°	610.6	6.1
20°-30°	1070.3	10.6
30°-40°	1764.8	17.5
40°-50°	2567.9	25.5
50°-60°	2909.7	28.9
60°-70°	832.0	8.3
70°-80°	64.6	0.6
80°-90°	13.4	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°	10064.0	100.0
0°-180°	10064.0	100.0

Coefficient of Utilization



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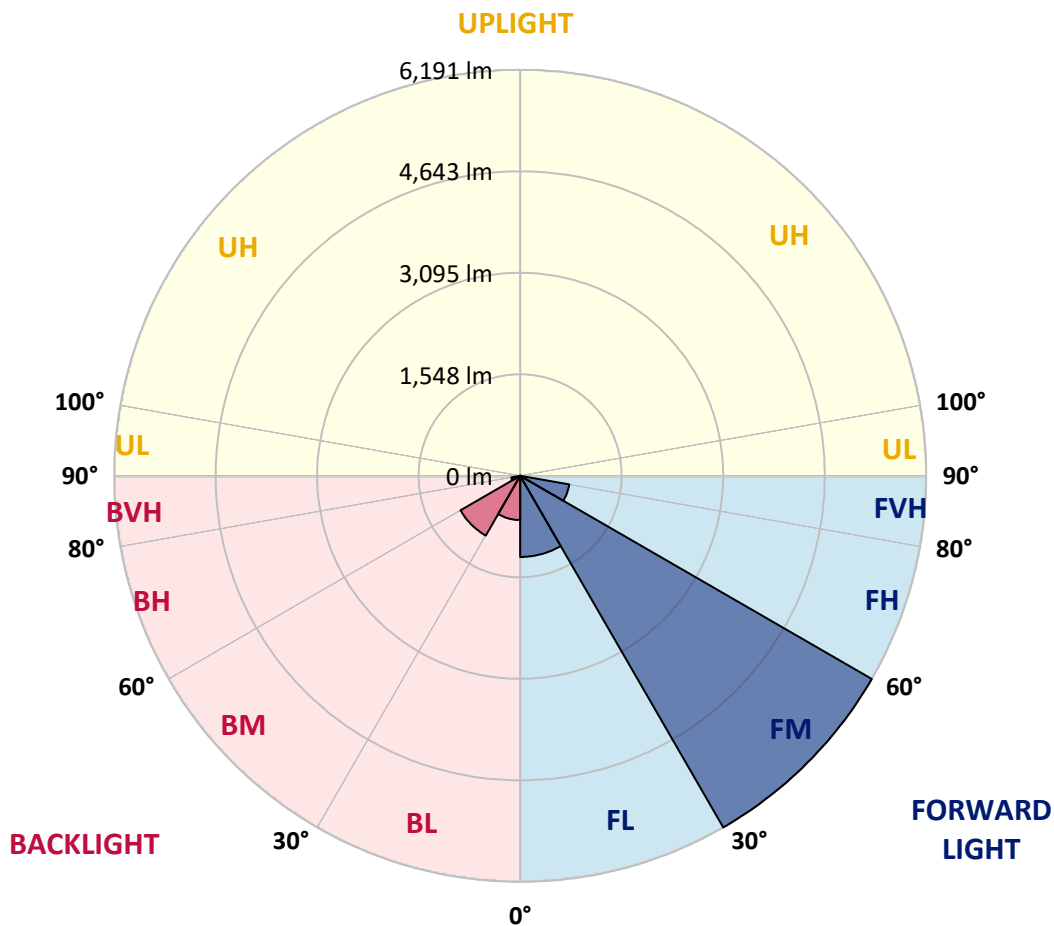
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.2	12.3			
FM (30°-60°)	6190.9	61.5			
FH (60°-80°)	760.1	7.6			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	674.4	6.7	B2/1000		
BM (30°-60°)	1051.5	10.4	B2/2500		
BH (60°-80°)	136.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.9	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°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2432.7	2456.1	2459.7	2488.5	2486.7	2535.3	2549.7	2551.5	2583.9	2567.7	2609.1
5°	2364.3	2351.7	2346.3	2396.7	2411.1	2454.3	2490.3	2511.9	2578.5	2601.9	2645.0
7.5°	2303.2	2303.2	2306.8	2351.7	2346.3	2402.1	2439.9	2506.5	2603.7	2623.4	2675.6
10°	2243.8	2222.2	2249.2	2296.0	2335.6	2360.7	2439.9	2502.9	2616.2	2673.8	2745.8
12.5°	2213.2	2224.0	2227.6	2261.8	2305.0	2380.5	2423.7	2528.1	2706.2	2740.4	2817.8
15°	2405.7	2384.1	2332.0	2301.4	2337.4	2373.3	2481.3	2587.5	2753.0	2801.6	2888.0
17.5°	2628.8	2610.9	2567.7	2484.9	2403.9	2470.5	2555.1	2652.2	2803.4	2875.4	3003.1
20°	2920.3	2891.5	2848.4	2686.4	2616.2	2544.3	2634.2	2749.4	2886.2	2950.9	3082.3
22.5°	3267.6	3267.6	3170.4	2974.3	2828.6	2760.2	2798.0	2864.6	2977.9	3066.1	3195.6
25°	3629.3	3618.5	3530.3	3327.0	3080.5	2999.5	3042.7	3089.5	3120.1	3168.6	3255.0
27.5°	4043.1	3980.2	3868.6	3643.7	3426.0	3269.4	3316.2	3274.8	3237.0	3262.2	3386.4
30°	4323.8	4363.4	4221.3	4005.3	3800.2	3625.7	3634.7	3598.7	3426.0	3461.9	3535.7
32.5°	4615.3	4640.5	4561.3	4442.6	4237.5	4034.1	3960.4	3929.8	3800.2	3816.4	3744.4
35°	4858.2	4906.8	4836.6	4784.5	4725.1	4561.3	4358.0	4457.0	4248.3	4208.7	4021.5
37.5°	5081.4	5067.0	5149.7	5095.7	5083.2	4968.0	4744.9	4764.7	4624.3	4615.3	4399.4
40°	5281.1	5284.7	5398.0	5423.2	5372.8	5167.7	4843.8	5000.4	5113.7	5124.5	4847.4
42.5°	5446.6	5495.2	5592.4	5795.7	5720.1	5378.2	4946.4	5117.3	5538.4	5605.0	5272.1
45°	5590.6	5689.5	5810.1	5991.8	5948.6	5676.9	5201.9	5358.5	5991.8	6166.4	5671.5
47.5°	5599.6	5729.1	5860.5	6130.4	6184.4	5837.1	5466.4	5739.9	6351.7	6540.6	5963.0
50°	5563.6	5632.0	5894.7	6188.0	6310.3	6098.0	5837.1	6060.2	6700.8	6819.5	6110.6
52.5°	5137.1	5189.3	5716.5	6241.9	6537.0	6393.1	6328.3	6506.4	7057.0	7145.2	6249.1
55°	4282.4	4273.4	4998.6	5970.2	6641.4	6830.3	6790.7	6853.7	7469.1	7548.3	6283.3
57.5°	2929.3	3093.1	3719.2	4971.6	6002.6	6727.8	6769.1	6664.8	6988.7	7019.3	5477.2
60°	1579.8	1648.2	2152.0	3318.0	4570.3	5482.6	5590.6	5401.6	5376.4	5290.1	3910.0
62.5°	628.0	662.2	948.3	1642.8	2490.3	3332.4	3564.5	3487.1	3321.6	3094.9	2024.3
65°	298.7	320.3	471.4	768.3	1104.8	1389.1	1621.2	1693.2	1248.7	1124.6	667.6
67.5°	203.3	219.5	343.7	439.0	394.1	412.1	536.2	498.4	293.3	250.1	185.3
70°	154.7	165.5	275.3	298.7	176.3	124.2	138.5	129.6	120.6	122.4	120.6
72.5°	109.8	118.8	201.5	176.3	77.4	57.6	73.8	88.2	88.2	88.2	86.4
75°	66.6	75.6	117.0	68.4	30.6	30.6	46.8	59.4	63.0	64.8	61.2
77.5°	34.2	43.2	39.6	19.8	19.8	23.4	34.2	41.4	45.0	45.0	43.2
80°	7.2	7.2	7.2	10.8	19.8	25.2	34.2	37.8	43.2	43.2	39.6
82.5°	0.0	1.8	5.4	10.8	18.0	23.4	32.4	37.8	43.2	45.0	41.4
85°	0.0	1.8	3.6	7.2	12.6	14.4	12.6	10.8	10.8	10.8	10.8
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2612.7	2618.0	2609.1	2607.3	2600.1	2621.6	2569.5	2556.9	2589.3	2558.7	2565.9
5°	2646.8	2659.4	2643.2	2616.2	2576.7	2515.5	2463.3	2394.9	2362.5	2339.2	2335.6
7.5°	2672.0	2681.0	2664.8	2578.5	2459.7	2305.0	2189.8	2105.2	2038.7	2018.9	1986.5
10°	2774.6	2776.4	2695.4	2504.7	2272.6	2069.2	1892.9	1763.4	1696.8	1655.4	1637.4
12.5°	2843.0	2839.4	2675.6	2358.9	2049.5	1779.6	1578.0	1421.5	1360.3	1340.5	1327.9
15°	2929.3	2909.5	2628.8	2209.6	1761.6	1470.1	1288.3	1180.4	1175.0	1162.4	1175.0
17.5°	2997.7	2941.9	2560.5	1937.9	1486.3	1211.0	1092.2	1099.4	1113.8	1126.4	1128.2
20°	3109.3	2994.1	2403.9	1700.4	1230.8	1038.2	1036.4	1068.8	1104.8	1119.2	1133.6
22.5°	3193.8	3015.7	2236.6	1446.7	1022.0	968.0	998.6	1047.2	1074.2	1088.6	1110.2
25°	3224.4	2956.3	2013.5	1193.0	921.3	935.7	982.4	1014.8	1049.0	1065.2	1056.2
27.5°	3255.0	2925.7	1747.2	982.4	867.3	914.1	953.7	986.0	996.8	1018.4	1032.8
30°	3328.8	2819.6	1507.9	849.3	840.3	899.7	928.5	939.3	968.0	980.6	980.6
32.5°	3388.2	2778.2	1254.1	786.3	836.7	906.9	910.5	910.5	914.1	905.1	901.5
35°	3510.5	2636.0	1027.4	748.5	834.9	908.7	917.7	887.1	804.3	771.9	762.9
37.5°	3661.7	2544.3	860.1	739.5	847.5	930.3	944.7	829.5	721.5	669.4	660.4
40°	3845.2	2479.5	750.3	735.9	876.3	980.6	937.5	784.5	644.2	568.6	565.0
42.5°	4059.3	2420.1	676.6	734.1	912.3	1032.8	930.3	746.7	565.0	514.6	521.8
45°	4230.3	2387.7	626.2	721.5	924.9	1063.4	935.7	680.2	532.6	500.2	503.8
47.5°	4363.4	2319.4	584.8	699.9	923.1	1074.2	887.1	653.2	516.4	525.4	534.4
50°	4367.0	2227.6	532.6	653.2	896.1	1054.4	831.3	628.0	512.8	550.6	568.6
52.5°	4318.4	2098.0	476.8	586.6	833.1	986.0	780.9	617.2	496.6	493.0	514.6
55°	4145.7	1855.1	383.3	475.0	703.5	813.3	735.9	597.4	448.0	406.7	410.3
57.5°	3350.4	1329.7	282.5	340.1	498.4	595.6	664.0	588.4	403.1	345.5	347.3
60°	2074.6	753.9	206.9	232.1	307.7	361.7	538.0	547.0	359.9	291.5	287.9
62.5°	1065.2	372.5	160.1	163.7	188.9	212.3	368.9	458.8	325.7	277.1	277.1
65°	356.3	183.5	140.3	126.0	126.0	131.4	223.1	318.5	275.3	232.1	232.1
67.5°	152.9	136.8	122.4	109.8	100.8	95.4	126.0	185.3	205.1	176.3	169.1
70°	118.8	115.2	106.2	91.8	79.2	72.0	73.8	95.4	117.0	113.4	109.8
72.5°	88.2	88.2	84.6	72.0	61.2	52.2	48.6	50.4	55.8	57.6	59.4
75°	61.2	63.0	63.0	55.8	45.0	37.8	32.4	27.0	21.6	18.0	16.2
77.5°	41.4	43.2	46.8	41.4	34.2	25.2	19.8	14.4	9.0	3.6	3.6
80°	36.0	41.4	45.0	41.4	36.0	27.0	19.8	10.8	5.4	0.0	0.0
82.5°	37.8	41.4	46.8	39.6	34.2	25.2	19.8	12.6	5.4	1.8	0.0
85°	9.0	9.0	10.8	12.6	16.2	18.0	14.4	9.0	5.4	1.8	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)