

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: P528245

Luminaire Tested: **GALN-SA3B-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528245
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-SA3B-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 10331 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

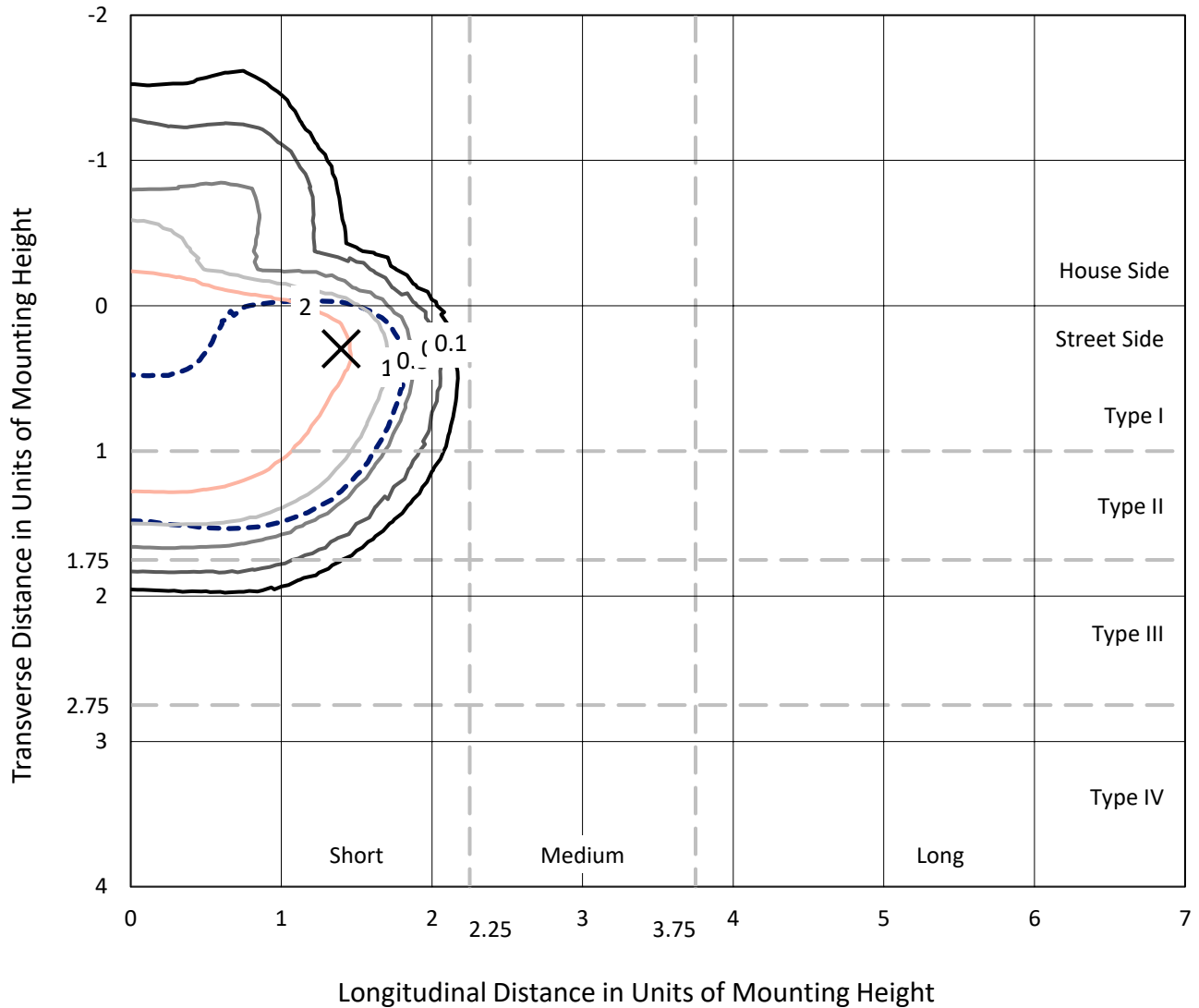
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

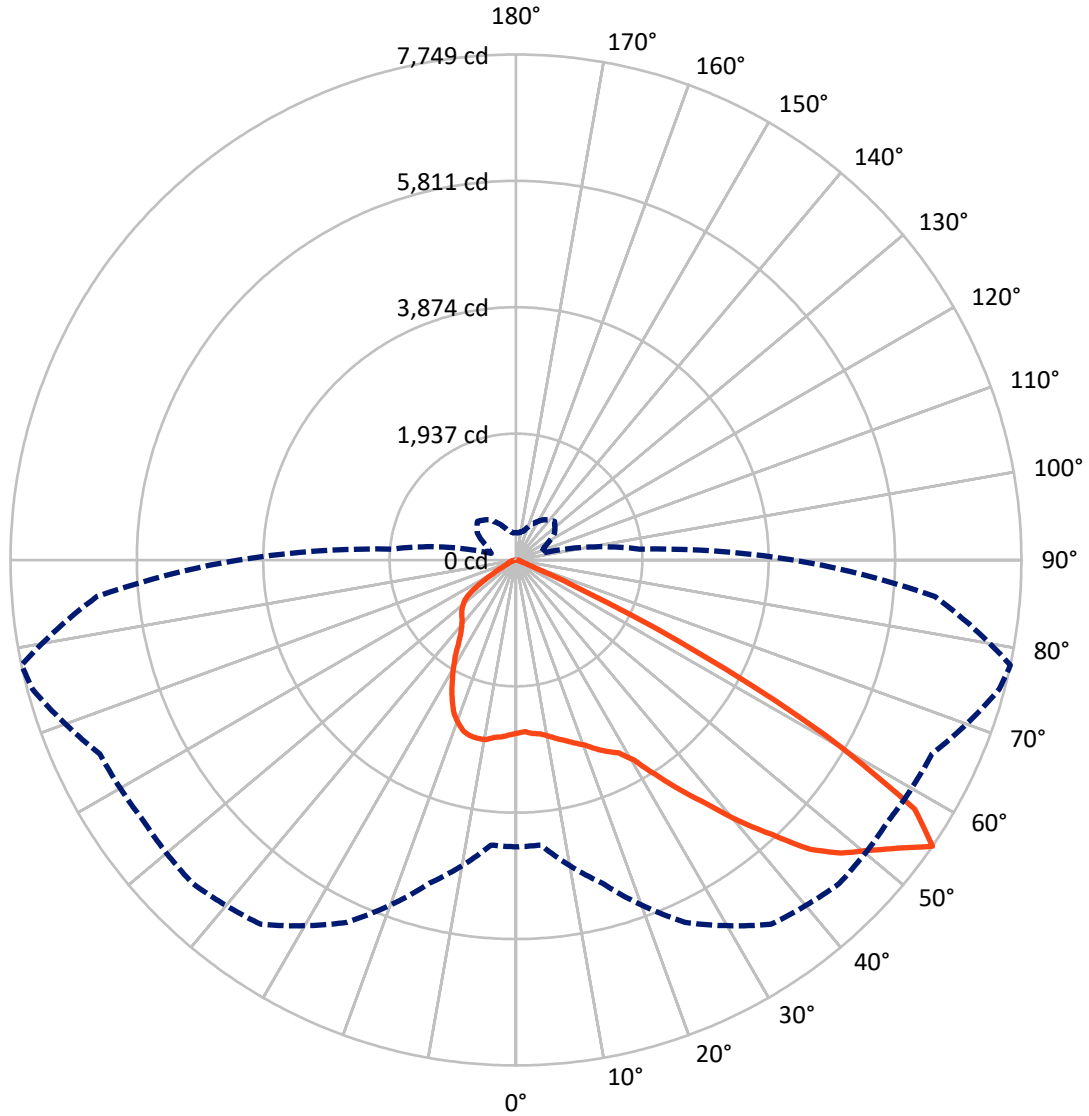
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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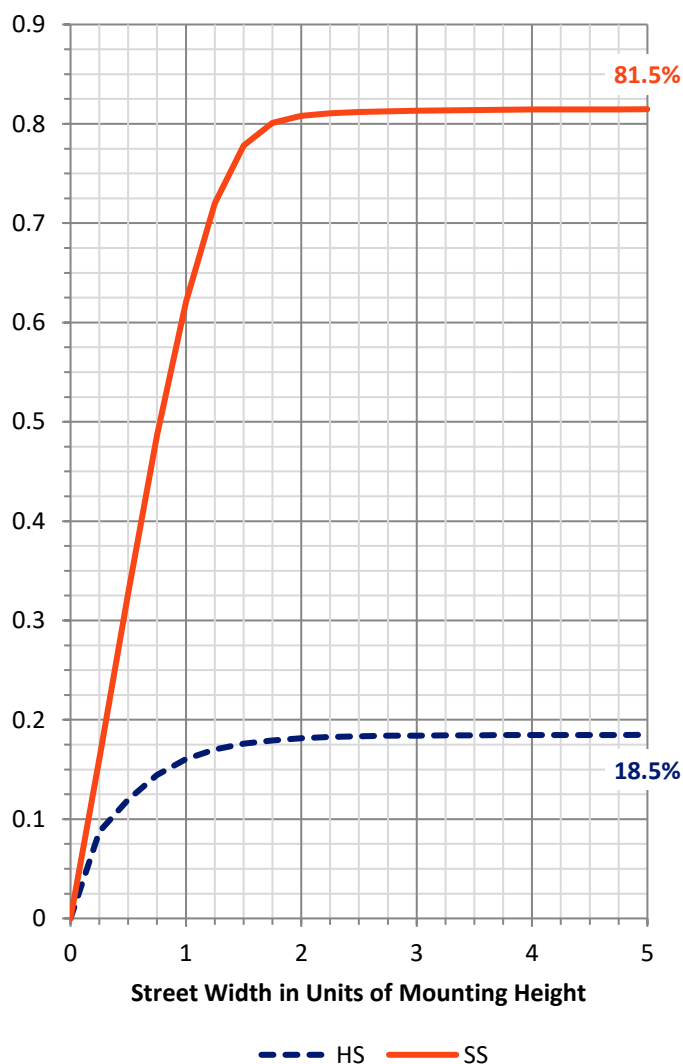
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1918.9	0.0	1918.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8412.1	0.0	8412.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	10331.0	0.0	10331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	2.3
10°-20°	626.8	6.1
20°-30°	1098.7	10.6
30°-40°	1811.6	17.5
40°-50°	2636.1	25.5
50°-60°	2986.9	28.9
60°-70°	854.0	8.3
70°-80°	66.3	0.6
80°-90°	13.8	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°	10331.0	100.0
0°-180°	10331.0	100.0

Coefficient of Utilization



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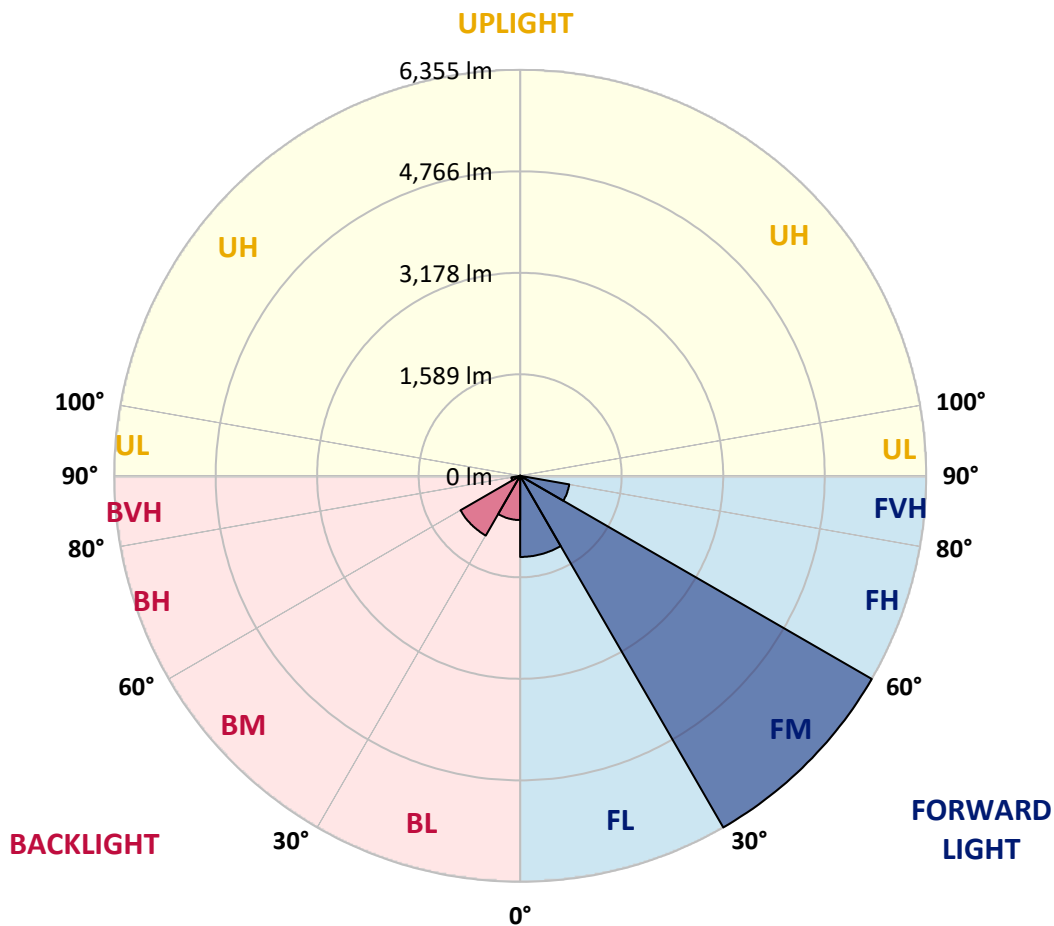
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.0	12.3			
FM (30°-60°)	6355.2	61.5			
FH (60°-80°)	780.3	7.6			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	692.3	6.7	B2/1000		
BM (30°-60°)	1079.4	10.4	B2/2500		
BH (60°-80°)	140.1	1.4	B1/500		G1/500
BVH (80°-90°)	7.1	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°	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1
2.5°	2497.3	2521.3	2525.0	2554.5	2552.7	2602.5	2617.3	2619.2	2652.4	2635.8	2678.3
5°	2427.1	2414.1	2408.6	2460.3	2475.1	2519.4	2556.4	2578.5	2646.9	2670.9	2715.2
7.5°	2364.3	2364.3	2368.0	2414.1	2408.6	2465.9	2504.6	2573.0	2672.7	2693.0	2746.6
10°	2303.3	2281.1	2308.9	2356.9	2397.5	2423.4	2504.6	2569.3	2685.7	2744.8	2818.6
12.5°	2271.9	2283.0	2286.7	2321.8	2366.1	2443.7	2488.0	2595.2	2778.0	2813.1	2892.5
15°	2469.6	2447.4	2393.8	2362.4	2399.4	2436.3	2547.1	2656.1	2826.0	2875.9	2964.6
17.5°	2698.6	2680.1	2635.8	2550.8	2467.7	2536.0	2622.9	2722.6	2877.8	2951.6	3082.8
20°	2997.8	2968.3	2923.9	2757.7	2685.7	2611.8	2704.1	2822.3	2962.7	3029.2	3164.1
22.5°	3354.3	3354.3	3254.6	3053.2	2903.6	2833.4	2872.2	2940.6	3056.9	3147.4	3280.4
25°	3725.6	3714.5	3624.0	3415.3	3162.2	3079.1	3123.4	3171.4	3202.8	3252.7	3341.4
27.5°	4150.4	4085.7	3971.2	3740.3	3516.8	3356.2	3404.2	3361.7	3322.9	3348.8	3476.2
30°	4438.5	4479.2	4333.3	4111.6	3901.0	3721.9	3731.1	3694.2	3516.8	3553.8	3629.5
32.5°	4737.8	4763.6	4682.4	4560.4	4349.9	4141.2	4065.4	4034.0	3901.0	3917.7	3843.8
35°	4987.1	5037.0	4965.0	4911.4	4850.4	4682.4	4473.6	4575.2	4361.0	4320.3	4128.2
37.5°	5216.2	5201.4	5286.4	5230.9	5218.0	5099.8	4870.8	4891.1	4747.0	4737.8	4516.1
40°	5421.2	5424.9	5541.3	5567.1	5515.4	5304.8	4972.3	5133.0	5249.4	5260.5	4976.0
42.5°	5591.1	5641.0	5740.7	5949.5	5871.9	5520.9	5077.6	5253.1	5685.3	5753.7	5412.0
45°	5738.9	5840.5	5964.2	6150.8	6106.5	5827.5	5339.9	5500.6	6150.8	6330.0	5822.0
47.5°	5748.1	5881.1	6016.0	6293.0	6348.4	5991.9	5611.4	5892.2	6520.2	6714.1	6121.2
50°	5711.2	5781.4	6051.0	6352.1	6477.7	6259.8	5991.9	6221.0	6878.5	7000.4	6272.7
52.5°	5273.4	5327.0	5868.2	6407.5	6710.5	6562.7	6496.2	6679.1	7244.3	7334.8	6414.9
55°	4396.1	4386.8	5131.2	6128.6	6817.6	7011.5	6970.9	7035.5	7667.2	7748.5	6450.0
57.5°	3007.1	3175.1	3817.9	5103.5	6161.9	6906.2	6948.7	6841.6	7174.1	7205.5	5622.5
60°	1621.7	1691.9	2209.1	3406.0	4691.6	5628.1	5738.9	5544.9	5519.1	5430.4	4013.7
62.5°	644.6	679.7	973.4	1686.4	2556.4	3420.8	3659.1	3579.6	3409.7	3177.0	2078.0
65°	306.6	328.8	483.9	788.7	1134.1	1425.9	1664.2	1738.1	1281.9	1154.4	685.3
67.5°	208.7	225.3	352.8	450.7	404.5	423.0	550.4	511.6	301.1	256.7	190.2
70°	158.8	169.9	282.6	306.6	181.0	127.4	142.2	133.0	123.8	125.6	123.8
72.5°	112.7	121.9	206.9	181.0	79.4	59.1	75.7	90.5	90.5	90.5	88.7
75°	68.3	77.6	120.1	70.2	31.4	31.4	48.0	61.0	64.6	66.5	62.8
77.5°	35.1	44.3	40.6	20.3	20.3	24.0	35.1	42.5	46.2	46.2	44.3
80°	7.4	7.4	7.4	11.1	20.3	25.9	35.1	38.8	44.3	44.3	40.6
82.5°	0.0	1.8	5.5	11.1	18.5	24.0	33.2	38.8	44.3	46.2	42.5
85°	0.0	1.8	3.7	7.4	12.9	14.8	12.9	11.1	11.1	11.1	11.1
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1	2656.1
2.5°	2682.0	2687.5	2678.3	2676.4	2669.0	2691.2	2637.6	2624.7	2658.0	2626.6	2633.9
5°	2717.1	2730.0	2713.4	2685.7	2645.0	2582.2	2528.7	2458.5	2425.2	2401.2	2397.5
7.5°	2742.9	2752.2	2735.5	2646.9	2525.0	2366.1	2247.9	2161.1	2092.7	2072.4	2039.2
10°	2848.2	2850.0	2766.9	2571.1	2332.9	2124.1	1943.1	1810.1	1741.8	1699.3	1680.8
12.5°	2918.4	2914.7	2746.6	2421.5	2103.8	1826.8	1619.9	1459.2	1396.4	1376.1	1363.1
15°	3007.1	2986.7	2698.6	2268.2	1808.3	1509.1	1322.5	1211.7	1206.1	1193.2	1206.1
17.5°	3077.2	3020.0	2628.4	1989.3	1525.7	1243.1	1121.2	1128.6	1143.3	1156.3	1158.1
20°	3191.8	3073.5	2467.7	1745.5	1263.4	1065.8	1063.9	1097.2	1134.1	1148.9	1163.7
22.5°	3278.6	3095.7	2295.9	1485.1	1049.1	993.7	1025.1	1075.0	1102.7	1117.5	1139.7
25°	3310.0	3034.8	2066.9	1224.6	945.7	960.5	1008.5	1041.8	1076.8	1093.5	1084.2
27.5°	3341.4	3003.4	1793.5	1008.5	890.3	938.3	979.0	1012.2	1023.3	1045.4	1060.2
30°	3417.1	2894.4	1547.9	871.8	862.6	923.5	953.1	964.2	993.7	1006.7	1006.7
32.5°	3478.1	2851.9	1287.4	807.2	858.9	930.9	934.6	934.6	938.3	929.1	925.4
35°	3603.7	2706.0	1054.7	768.4	857.0	932.8	942.0	910.6	825.6	792.4	783.2
37.5°	3758.8	2611.8	882.9	759.2	870.0	954.9	969.7	851.5	740.7	687.1	677.9
40°	3947.2	2545.3	770.2	755.5	899.5	1006.7	962.3	805.3	661.3	583.7	580.0
42.5°	4167.0	2484.3	694.5	753.6	936.5	1060.2	954.9	766.5	580.0	528.3	535.7
45°	4342.5	2451.1	642.8	740.7	949.4	1091.6	960.5	698.2	546.7	513.5	517.2
47.5°	4479.2	2380.9	600.3	718.5	947.6	1102.7	910.6	670.5	530.1	539.3	548.6
50°	4482.9	2286.7	546.7	670.5	919.8	1082.4	853.4	644.6	526.4	565.2	583.7
52.5°	4433.0	2153.7	489.5	602.1	855.2	1012.2	801.6	633.5	509.8	506.1	528.3
55°	4255.7	1904.3	393.4	487.6	722.2	834.9	755.5	613.2	459.9	417.4	421.1
57.5°	3439.3	1365.0	290.0	349.1	511.6	611.4	681.6	604.0	413.7	354.6	356.5
60°	2129.7	773.9	212.4	238.3	315.9	371.3	552.3	561.5	369.4	299.2	295.5
62.5°	1093.5	382.3	164.4	168.1	193.9	218.0	378.7	471.0	334.3	284.5	284.5
65°	365.7	188.4	144.1	129.3	129.3	134.8	229.0	326.9	282.6	238.3	238.3
67.5°	157.0	140.4	125.6	112.7	103.4	97.9	129.3	190.2	210.6	181.0	173.6
70°	121.9	118.2	109.0	94.2	81.3	73.9	75.7	97.9	120.1	116.4	112.7
72.5°	90.5	90.5	86.8	73.9	62.8	53.6	49.9	51.7	57.3	59.1	61.0
75°	62.8	64.6	64.6	57.3	46.2	38.8	33.2	27.7	22.2	18.5	16.6
77.5°	42.5	44.3	48.0	42.5	35.1	25.9	20.3	14.8	9.2	3.7	3.7
80°	36.9	42.5	46.2	42.5	36.9	27.7	20.3	11.1	5.5	0.0	0.0
82.5°	38.8	42.5	48.0	40.6	35.1	25.9	20.3	12.9	5.5	1.8	0.0
85°	9.2	9.2	11.1	12.9	16.6	18.5	14.8	9.2	5.5	1.8	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	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)