

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: P529335

Luminaire Tested: **GALN-SA4C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529335
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-SA4C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 13890 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

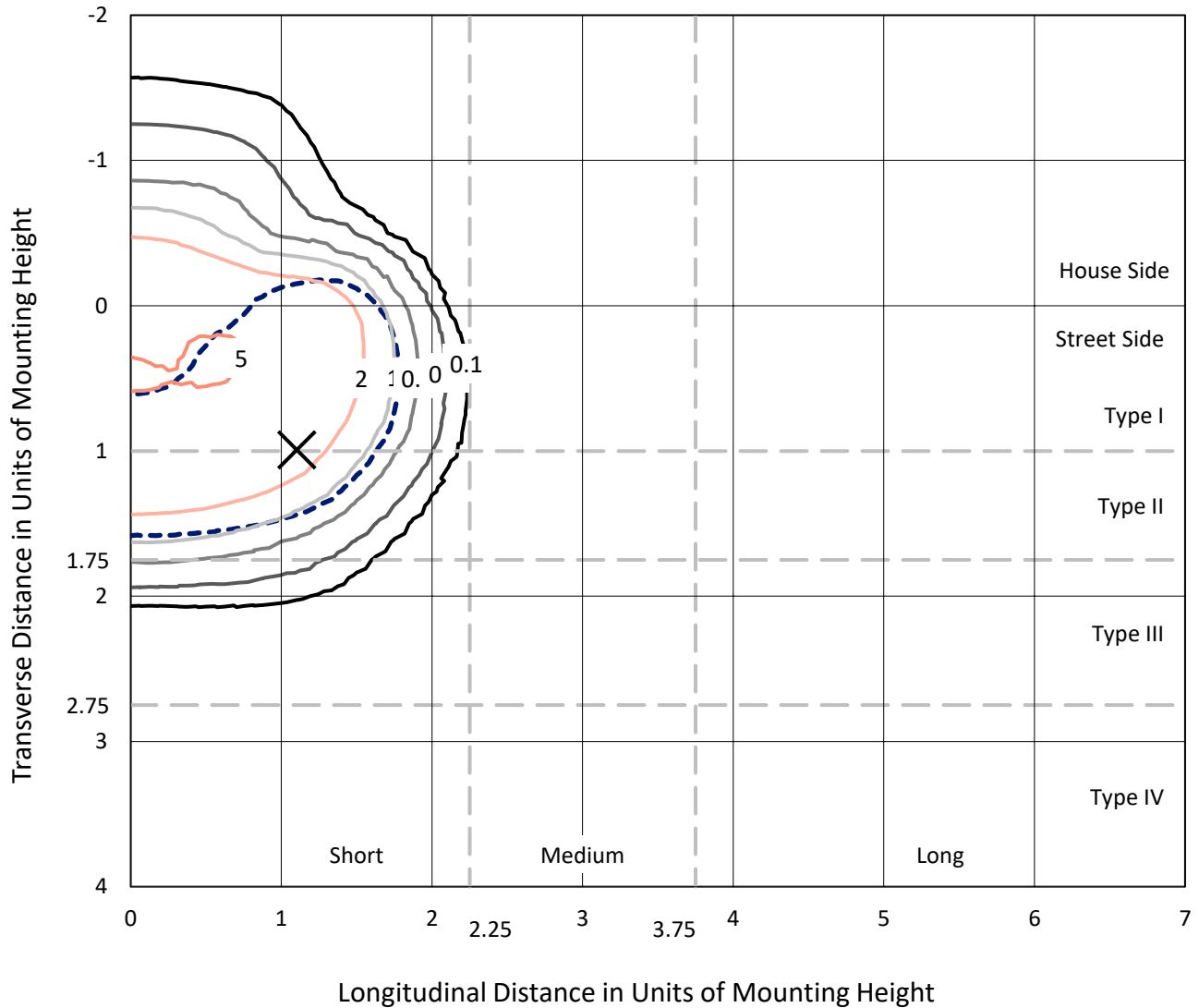
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

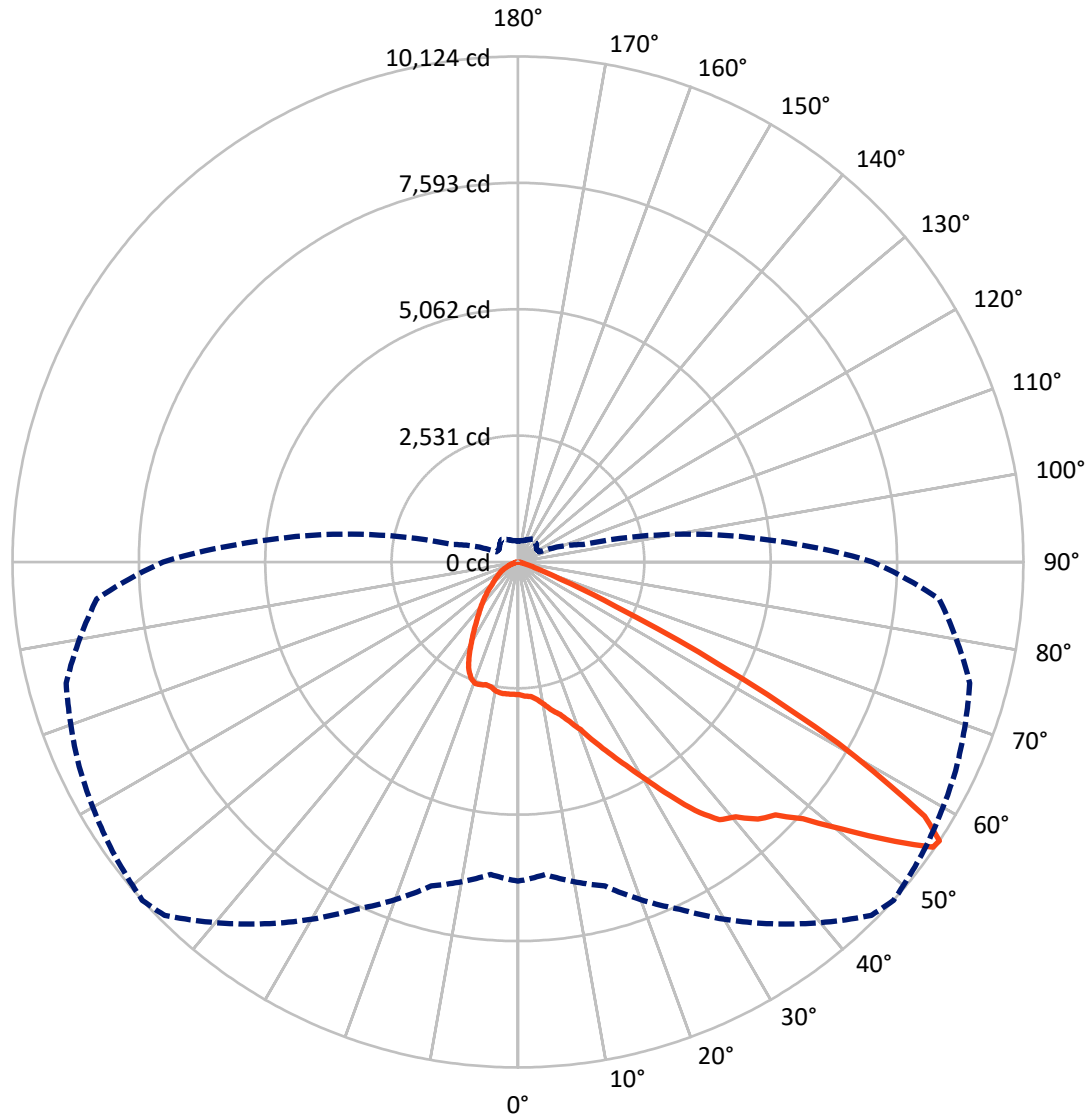
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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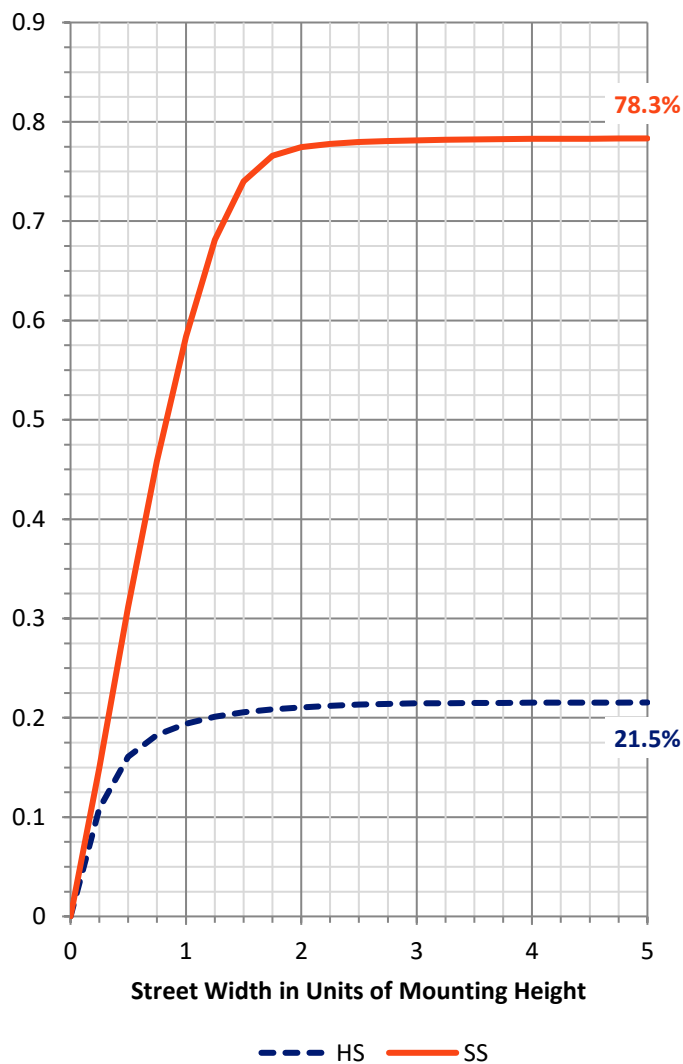
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3020.8	0.0	3020.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10869.2	0.0	10869.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	13890.0	0.0	13890.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.9
10°-20°	825.9	5.9
20°-30°	1498.0	10.8
30°-40°	2353.1	16.9
40°-50°	3432.7	24.7
50°-60°	4135.8	29.8
60°-70°	1210.9	8.7
70°-80°	153.6	1.1
80°-90°	21.5	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°	13890.0	100.0
0°-180°	13890.0	100.0

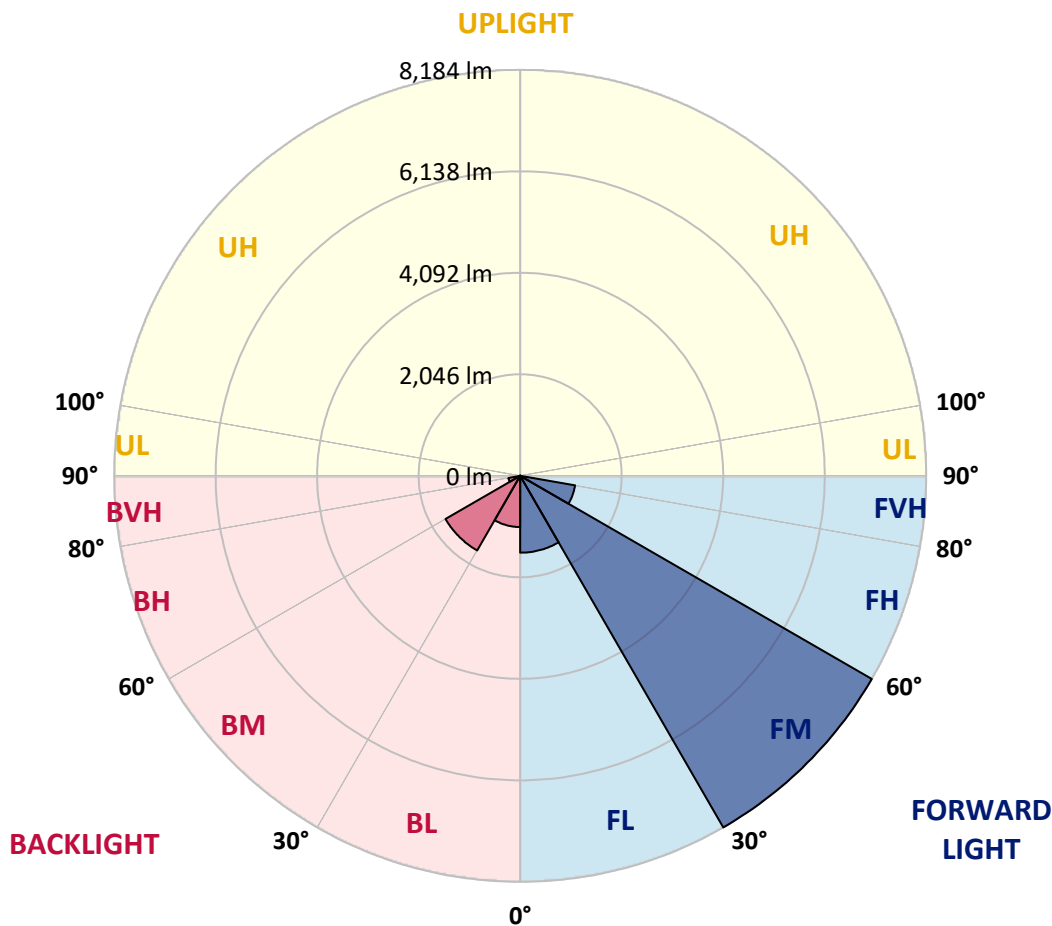


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.8	11.2			
FM (30°-60°)	8184.0	58.9			
FH (60°-80°)	1124.5	8.1			G1/1800
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	1032.5	7.4	B3/2500		
BM (30°-60°)	1737.6	12.5	B2/2500		
BH (60°-80°)	240.0	1.7	B1/500		G1/500
BVH (80°-90°)	10.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0
2.5°	2701.0	2688.4	2688.4	2668.2	2690.9	2680.8	2688.4	2663.1	2688.4	2650.5	2680.8
5°	2713.7	2716.2	2706.1	2718.8	2718.8	2733.9	2708.6	2731.4	2744.0	2716.2	2703.6
7.5°	2779.4	2784.5	2782.0	2771.9	2792.1	2789.6	2787.0	2769.3	2774.4	2764.3	2749.1
10°	2908.4	2905.9	2918.5	2893.3	2878.1	2895.8	2900.8	2873.0	2852.8	2845.2	2797.2
12.5°	3095.6	3065.2	3047.5	3022.2	3029.8	3004.5	3050.1	3002.0	2991.9	2946.4	2898.3
15°	3247.3	3242.3	3244.8	3204.3	3158.8	3168.9	3168.9	3143.6	3128.5	3072.8	3004.5
17.5°	3558.4	3452.2	3474.9	3424.4	3386.4	3383.9	3361.1	3366.2	3325.7	3209.4	3105.7
20°	3801.2	3755.7	3720.3	3634.3	3576.1	3593.8	3583.7	3558.4	3545.8	3394.0	3247.3
22.5°	4018.7	4033.9	3975.7	3952.9	3872.0	3879.6	3899.8	3877.1	3781.0	3624.2	3406.7
25°	4324.7	4307.0	4228.6	4200.8	4124.9	4152.7	4231.1	4213.4	4152.7	3869.5	3530.6
27.5°	4686.4	4625.7	4640.8	4514.4	4441.0	4519.5	4613.0	4701.5	4529.6	4157.8	3677.3
30°	4941.8	4878.6	4873.5	4868.5	4850.8	4941.8	5050.6	5131.5	4992.4	4446.1	3920.1
32.5°	5068.3	5083.4	5126.4	5111.3	5265.5	5452.7	5566.5	5682.8	5508.3	4916.5	4241.3
35°	5404.6	5308.5	5404.6	5414.7	5574.1	5971.1	6115.3	6393.5	6350.5	5581.7	4633.3
37.5°	5601.9	5594.3	5607.0	5703.1	5857.3	6348.0	6552.8	6767.8	6686.9	5981.3	5121.4
40°	5928.1	5948.4	5945.8	6019.2	6188.6	6631.2	6714.7	6889.2	6896.8	6535.1	5839.6
42.5°	6451.7	6370.7	6317.6	6393.5	6631.2	6876.5	7043.5	7008.1	7258.4	7207.9	6762.7
45°	6922.1	6970.1	6891.7	7018.2	7104.2	7235.7	7230.6	7306.5	7625.2	7865.4	7458.2
47.5°	7362.1	7392.5	7430.4	7516.4	7703.6	7723.8	7680.8	7647.9	8088.0	8335.8	7996.9
50°	7625.2	7653.0	7830.0	7984.3	8333.3	8378.8	8404.1	8320.6	8619.1	8646.9	8505.3
52.5°	7554.3	7584.7	7832.5	8340.9	8897.3	9314.6	9238.7	9097.1	9079.4	9188.1	8975.7
55°	6927.1	6899.3	7240.7	8032.3	9074.3	10075.8	10085.9	9936.7	9650.9	9577.6	8904.9
56°	6393.5	6284.7	6719.7	7675.7	8846.7	10010.1	10123.9	9964.5	9696.5	9367.7	8467.3
57.5°	5237.7	5341.4	5773.9	6565.5	8060.2	9537.1	9602.9	9564.9	9362.6	8811.3	7450.6
60°	2888.2	3070.3	3452.2	4420.8	5738.5	7319.1	7372.2	7680.8	7718.7	6747.6	5126.4
62.5°	1226.6	1206.4	1603.4	2316.6	3267.6	4418.3	4516.9	4833.1	4891.2	3889.7	2572.1
65°	498.2	526.0	725.8	1165.9	1727.4	2013.1	2152.2	2255.9	2448.1	1606.0	948.4
67.5°	328.8	326.3	427.4	665.1	930.7	897.8	897.8	948.4	877.6	655.0	409.7
70°	235.2	242.8	306.0	460.3	579.2	429.9	412.2	394.5	447.6	432.5	331.3
72.5°	154.3	164.4	204.9	275.7	301.0	235.2	235.2	283.3	369.2	349.0	270.6
75°	101.2	103.7	126.5	159.3	149.2	121.4	134.0	189.7	268.1	258.0	192.2
77.5°	68.3	70.8	86.0	103.7	83.5	68.3	73.3	96.1	131.5	131.5	101.2
80°	25.3	27.8	35.4	32.9	37.9	48.1	53.1	65.8	78.4	78.4	68.3
82.5°	0.0	2.5	7.6	17.7	27.8	37.9	43.0	50.6	58.2	65.8	63.2
85°	0.0	2.5	7.6	12.6	20.2	22.8	25.3	17.7	15.2	15.2	12.6
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.1	2.5	2.5
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°	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0	2653.0
2.5°	2653.0	2650.5	2650.5	2642.9	2658.1	2650.5	2655.5	2653.0	2620.1	2645.4	2627.7
5°	2680.8	2698.5	2670.7	2665.6	2645.4	2653.0	2653.0	2627.7	2650.5	2647.9	2642.9
7.5°	2751.6	2721.3	2690.9	2660.6	2655.5	2647.9	2620.1	2610.0	2627.7	2607.5	2637.8
10°	2782.0	2787.0	2741.5	2701.0	2663.1	2610.0	2572.1	2549.3	2521.5	2551.8	2569.5
12.5°	2921.1	2870.5	2792.1	2728.9	2599.9	2546.8	2508.8	2498.7	2546.8	2556.9	2539.2
15°	2969.1	2961.5	2860.4	2718.8	2584.7	2521.5	2529.1	2508.8	2513.9	2488.6	2493.7
17.5°	3067.8	2981.8	2862.9	2685.9	2582.2	2567.0	2521.5	2440.6	2395.0	2374.8	2392.5
20°	3176.5	3093.1	2921.1	2698.5	2604.9	2564.5	2415.3	2316.6	2223.1	2172.5	2175.0
22.5°	3272.6	3168.9	2895.8	2703.6	2625.2	2458.3	2278.7	2084.0	1967.6	1889.2	1891.7
25°	3389.0	3242.3	2905.9	2713.7	2572.1	2288.8	2030.8	1841.2	1702.1	1649.0	1666.7
27.5°	3454.7	3287.8	2961.5	2736.5	2433.0	2048.5	1770.4	1593.3	1512.4	1487.1	1484.6
30°	3652.0	3389.0	3029.8	2690.9	2200.3	1790.6	1532.6	1423.9	1345.5	1322.7	1327.8
32.5°	3945.4	3573.6	3118.3	2572.1	1962.6	1560.4	1378.3	1297.4	1224.1	1181.1	1176.0
35°	4190.7	3889.7	3211.9	2387.4	1686.9	1383.4	1269.6	1168.4	1057.2	1009.1	996.5
37.5°	4658.5	4246.3	3191.7	2109.2	1423.9	1251.9	1153.3	1029.3	933.2	867.5	859.9
40°	5280.7	4663.6	3093.1	1770.4	1229.1	1135.6	1029.3	910.5	791.6	736.0	730.9
42.5°	6036.9	5174.5	2913.5	1426.4	1034.4	1019.2	923.1	786.5	680.3	639.9	642.4
45°	6651.5	5612.0	2731.4	1145.7	890.2	905.4	821.9	693.0	619.6	586.7	586.7
47.5°	7197.7	5907.9	2534.1	945.9	756.2	791.6	718.3	642.4	579.2	553.9	548.8
50°	7723.8	6208.9	2336.9	766.3	644.9	680.3	672.7	612.0	561.5	531.1	533.6
52.5°	8052.6	6256.9	2086.5	627.2	564.0	604.4	629.7	574.1	518.5	500.8	495.7
55°	7650.4	5637.3	1618.6	515.9	478.0	531.1	579.2	515.9	472.9	442.6	440.1
56°	7109.2	5040.4	1353.1	475.5	452.7	510.9	561.5	493.2	445.1	427.4	414.8
57.5°	6019.2	4124.9	999.0	422.4	419.8	475.5	533.6	470.4	414.8	399.6	399.6
60°	3753.1	2321.7	604.4	354.1	364.2	422.4	480.5	419.8	369.2	369.2	376.8
62.5°	1709.7	966.1	366.7	301.0	313.6	364.2	427.4	379.4	351.5	379.4	384.4
65°	581.7	417.3	265.6	240.3	247.8	301.0	366.7	384.4	381.9	399.6	409.7
67.5°	326.3	268.1	222.6	199.8	194.7	222.6	301.0	384.4	369.2	361.7	366.7
70°	275.7	227.6	197.3	177.0	169.4	179.6	232.7	290.8	260.5	252.9	247.8
72.5°	222.6	189.7	172.0	159.3	136.6	116.3	106.2	111.3	123.9	131.5	144.2
75°	156.8	144.2	144.2	129.0	98.6	73.3	58.2	48.1	32.9	22.8	25.3
77.5°	88.5	88.5	91.0	78.4	63.2	48.1	35.4	25.3	12.6	5.1	2.5
80°	60.7	65.8	70.8	63.2	53.1	43.0	30.3	17.7	7.6	0.0	0.0
82.5°	60.7	68.3	73.3	63.2	53.1	40.5	30.3	17.7	7.6	2.5	0.0
85°	12.6	15.2	17.7	20.2	30.3	30.3	22.8	15.2	7.6	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)