

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: P647354

Luminaire Tested: **GALN-SA3D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647354
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-SA3D-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 10997.2 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

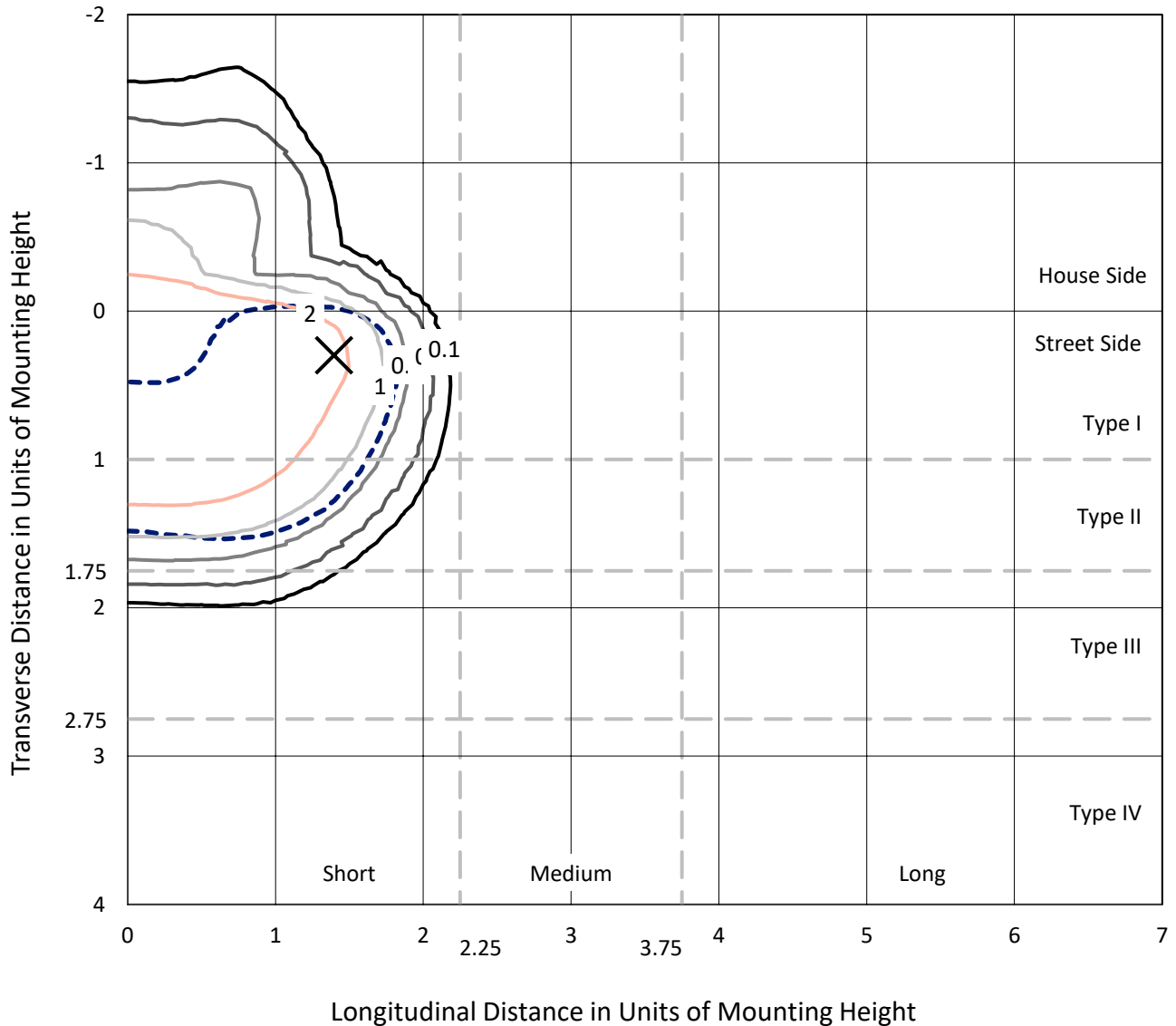
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

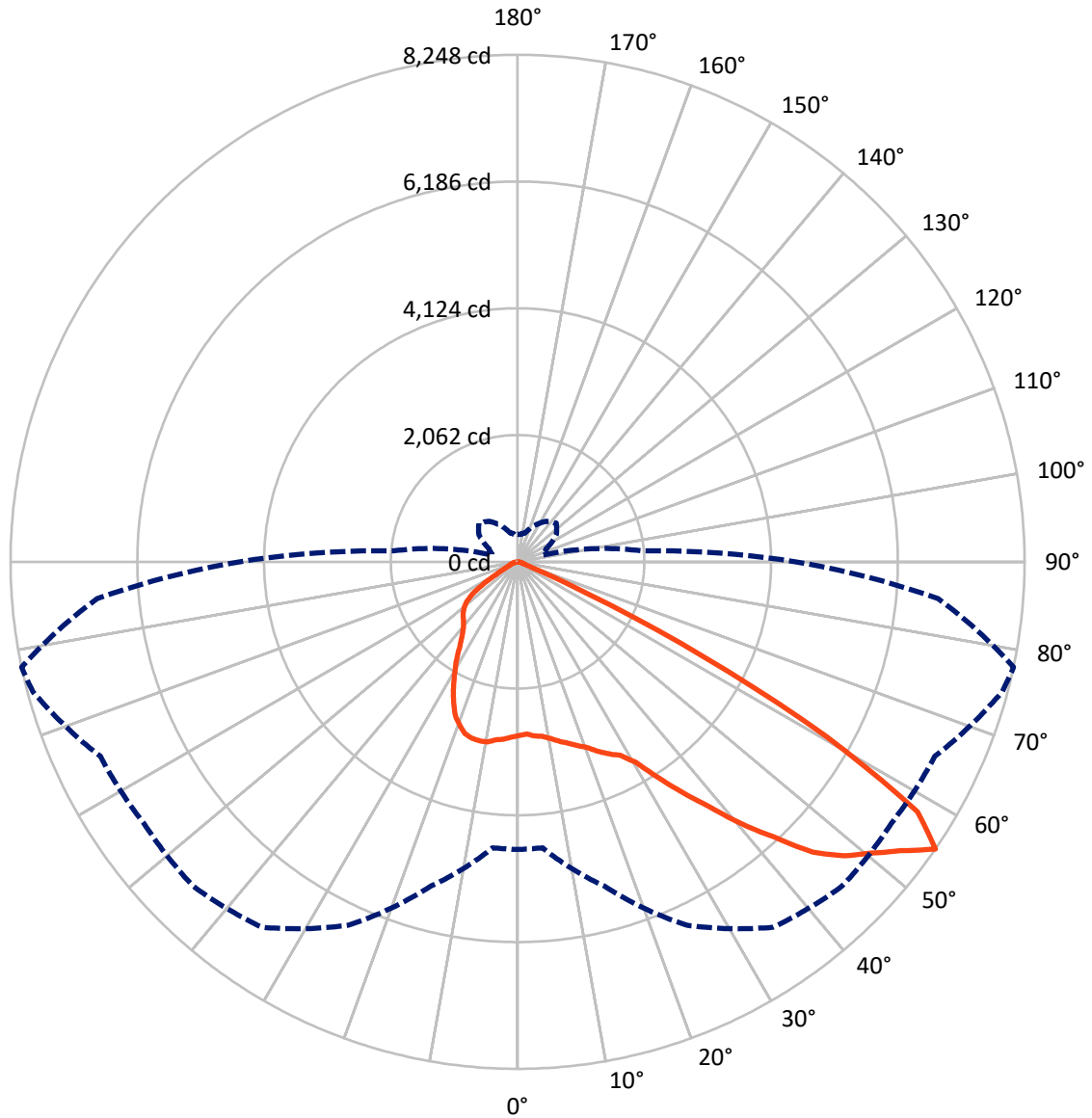
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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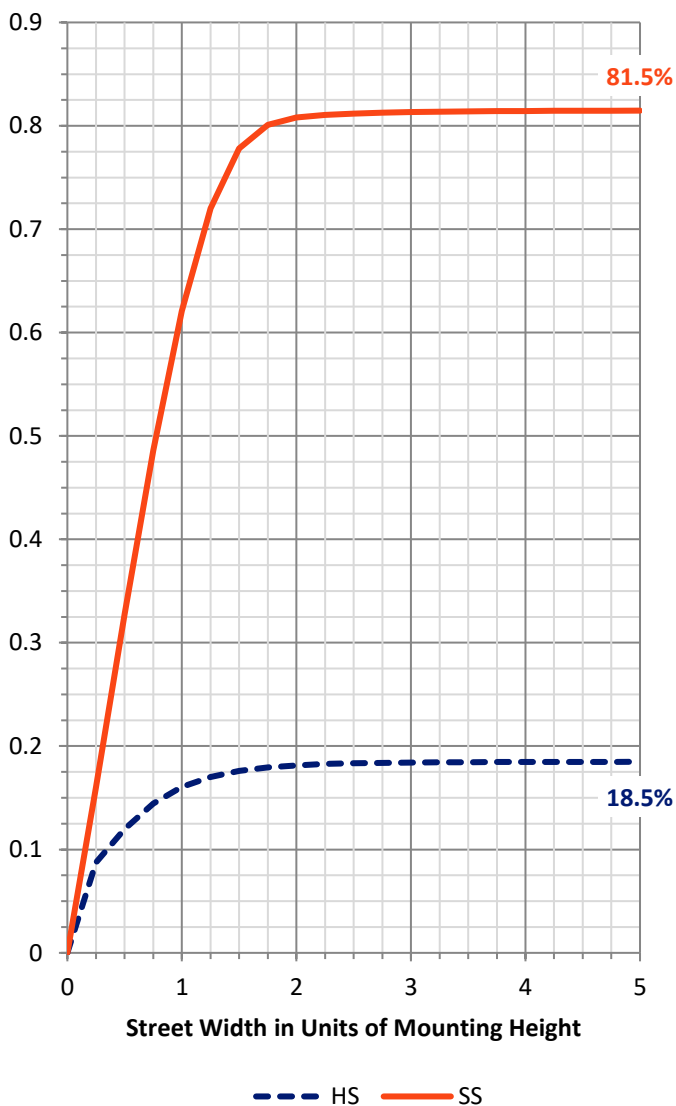
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2042.6	0.0	2042.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8954.6	0.0	8954.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	10997.2	0.0	10997.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	2.3
10°-20°	667.2	6.1
20°-30°	1169.5	10.6
30°-40°	1928.4	17.5
40°-50°	2806.1	25.5
50°-60°	3179.6	28.9
60°-70°	909.1	8.3
70°-80°	70.6	0.6
80°-90°	14.7	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°	10997.2	100.0
0°-180°	10997.2	100.0

Coefficient of Utilization

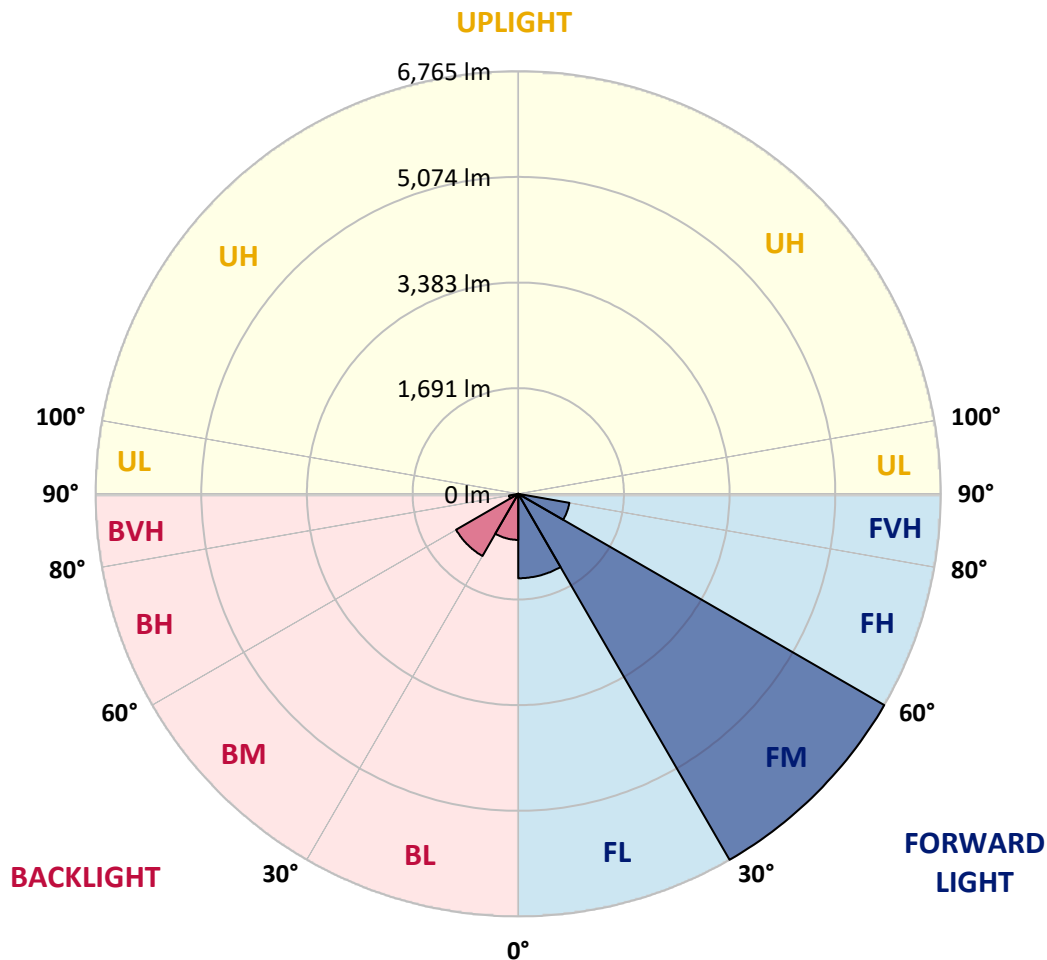


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1351.9	12.3			
FM (30°-60°)	6765.0	61.5			
FH (60°-80°)	830.6	7.6			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	737.0	6.7	B2/1000		
BM (30°-60°)	1149.0	10.4	B2/2500		
BH (60°-80°)	149.1	1.4	B1/500		G1/500
BVH (80°-90°)	7.5	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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	2658.3	2683.9	2687.8	2719.3	2717.3	2770.4	2786.1	2788.1	2823.5	2805.8	2851.0
5°	2583.6	2569.8	2563.9	2619.0	2634.7	2681.9	2721.2	2744.8	2817.5	2843.2	2890.3
7.5°	2516.7	2516.7	2520.6	2569.8	2563.9	2624.9	2666.2	2738.9	2845.1	2866.7	2923.7
10°	2451.9	2428.2	2457.8	2508.9	2552.1	2579.7	2666.2	2735.0	2858.9	2921.8	3000.5
12.5°	2418.5	2430.2	2434.2	2471.5	2518.7	2601.3	2648.5	2762.5	2957.2	2994.5	3079.1
15°	2628.8	2605.2	2548.2	2514.8	2554.1	2593.5	2711.4	2827.4	3008.3	3061.4	3155.7
17.5°	2872.6	2852.9	2805.8	2715.3	2626.8	2699.6	2792.0	2898.2	3063.3	3142.0	3281.6
20°	3191.1	3159.7	3112.5	2935.5	2858.9	2780.2	2878.5	3004.4	3153.8	3224.6	3368.1
22.5°	3570.6	3570.6	3464.5	3250.2	3090.9	3016.1	3057.5	3130.2	3254.1	3350.4	3491.9
25°	3965.8	3954.0	3857.7	3635.5	3366.1	3277.6	3324.9	3376.0	3409.4	3462.5	3556.9
27.5°	4418.1	4349.3	4227.3	3981.6	3743.7	3572.6	3623.7	3578.5	3537.2	3564.7	3700.4
30°	4724.8	4768.0	4612.7	4376.7	4152.6	3961.9	3971.7	3932.4	3743.7	3783.0	3863.6
32.5°	5043.3	5070.9	4984.3	4854.5	4630.4	4408.2	4327.6	4294.2	4152.6	4170.3	4091.6
35°	5308.7	5361.8	5285.2	5228.1	5163.3	4984.3	4762.1	4870.3	4642.2	4599.0	4394.4
37.5°	5552.6	5536.8	5627.3	5568.3	5554.5	5428.7	5184.9	5206.5	5053.2	5043.3	4807.4
40°	5770.8	5774.7	5898.6	5926.1	5871.1	5646.9	5293.0	5464.1	5588.0	5599.7	5296.9
42.5°	5951.7	6004.7	6110.9	6333.1	6250.5	5877.0	5405.0	5591.9	6052.0	6124.7	5761.0
45°	6109.0	6217.1	6348.9	6547.4	6500.2	6203.4	5684.3	5855.4	6547.4	6738.2	6197.4
47.5°	6118.8	6260.4	6403.9	6698.9	6757.8	6378.3	5973.4	6272.1	6940.7	7147.1	6516.0
50°	6079.5	6154.2	6441.3	6761.8	6895.5	6663.5	6378.3	6622.1	7322.1	7451.9	6677.2
52.5°	5613.5	5670.5	6246.6	6820.7	7143.2	6985.9	6915.1	7109.8	7711.5	7807.8	6828.6
55°	4679.5	4669.7	5462.1	6523.9	7257.2	7463.7	7420.4	7489.2	8161.7	8248.2	6866.0
57.5°	3201.0	3379.9	4064.2	5432.6	6559.3	7351.6	7396.8	7282.8	7636.8	7670.1	5985.1
60°	1726.4	1801.1	2351.6	3625.7	4994.1	5991.0	6109.0	5902.6	5875.0	5780.7	4272.5
62.5°	686.2	723.6	1036.2	1795.1	2721.2	3641.4	3895.0	3810.5	3629.6	3381.9	2212.0
65°	326.4	350.0	515.1	839.5	1207.2	1517.9	1771.5	1850.2	1364.5	1228.8	729.4
67.5°	222.2	239.9	375.5	479.7	430.6	450.2	585.9	544.7	320.5	273.3	202.5
70°	169.1	180.9	300.8	326.4	192.7	135.7	151.4	141.6	131.7	133.7	131.7
72.5°	120.0	129.7	220.2	192.7	84.6	63.0	80.6	96.3	96.3	96.3	94.4
75°	72.7	82.6	127.8	74.7	33.4	33.4	51.1	64.9	68.8	70.8	66.9
77.5°	37.3	47.2	43.2	21.6	21.6	25.5	37.3	45.3	49.2	49.2	47.2
80°	7.8	7.8	7.8	11.8	21.6	27.6	37.3	41.3	47.2	47.2	43.2
82.5°	0.0	2.0	5.9	11.8	19.7	25.5	35.4	41.3	47.2	49.2	45.3
85°	0.0	2.0	3.9	7.8	13.8	15.7	13.8	11.8	11.8	11.8	11.8
87.5°	0.0	0.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4	2827.4
2.5°	2854.9	2860.8	2851.0	2849.0	2841.2	2864.8	2807.8	2794.0	2829.4	2795.9	2803.8
5°	2892.2	2906.0	2888.3	2858.9	2815.6	2748.7	2691.7	2617.0	2581.6	2556.0	2552.1
7.5°	2919.8	2929.7	2912.0	2817.5	2687.8	2518.7	2392.8	2300.5	2227.7	2206.1	2170.7
10°	3031.9	3033.8	2945.3	2737.0	2483.3	2261.1	2068.5	1926.9	1854.1	1808.9	1789.2
12.5°	3106.6	3102.6	2923.7	2577.7	2239.5	1944.6	1724.3	1553.3	1486.4	1464.8	1451.1
15°	3201.0	3179.4	2872.6	2414.5	1924.9	1606.4	1407.8	1289.8	1284.0	1270.2	1284.0
17.5°	3275.7	3214.8	2797.9	2117.6	1624.1	1323.3	1193.4	1201.4	1217.1	1230.9	1232.8
20°	3397.6	3271.8	2626.8	1858.1	1344.9	1134.5	1132.5	1167.9	1207.2	1223.0	1238.7
22.5°	3490.0	3295.3	2444.0	1580.8	1116.8	1057.8	1091.3	1144.4	1173.8	1189.5	1213.2
25°	3523.4	3230.5	2200.2	1303.6	1006.7	1022.4	1073.6	1109.0	1146.3	1164.0	1154.1
27.5°	3556.9	3197.1	1909.2	1073.6	947.7	998.8	1042.1	1077.5	1089.3	1112.9	1128.6
30°	3637.5	3081.0	1647.7	928.0	918.2	983.1	1014.5	1026.4	1057.8	1071.6	1071.6
32.5°	3702.3	3035.8	1370.4	859.3	914.3	991.0	994.9	994.9	998.8	989.0	985.1
35°	3836.1	2880.5	1122.7	817.9	912.4	992.9	1002.8	969.4	878.9	843.5	833.7
37.5°	4001.2	2780.2	939.8	808.1	926.1	1016.5	1032.2	906.4	788.5	731.4	721.6
40°	4201.7	2709.4	819.9	804.1	957.5	1071.6	1024.4	857.2	703.9	621.3	617.4
42.5°	4435.8	2644.5	739.3	802.2	996.8	1128.6	1016.5	816.0	617.4	562.4	570.2
45°	4622.5	2609.1	684.3	788.5	1010.6	1162.1	1022.4	743.2	582.0	546.6	550.5
47.5°	4768.0	2534.4	639.0	764.8	1008.7	1173.8	969.4	713.7	564.3	574.1	584.0
50°	4772.0	2434.2	582.0	713.7	979.1	1152.2	908.4	686.2	560.4	601.7	621.3
52.5°	4718.9	2292.6	521.0	641.0	910.3	1077.5	853.3	674.4	542.7	538.7	562.4
55°	4530.1	2027.2	418.8	519.1	768.7	888.7	804.1	652.8	489.6	444.4	448.3
57.5°	3661.1	1453.0	308.7	371.6	544.7	650.8	725.5	642.9	440.4	377.5	379.4
60°	2267.0	823.9	226.1	253.6	336.2	395.2	587.9	597.7	393.2	318.5	314.6
62.5°	1164.0	407.0	175.0	178.9	206.5	232.0	403.1	501.4	355.9	302.8	302.8
65°	389.3	200.5	153.4	137.7	137.7	143.5	243.8	348.0	300.8	253.6	253.6
67.5°	167.1	149.4	133.7	120.0	110.1	104.2	137.7	202.5	224.2	192.7	184.8
70°	129.7	125.8	116.0	100.3	86.5	78.6	80.6	104.2	127.8	123.9	120.0
72.5°	96.3	96.3	92.4	78.6	66.9	57.0	53.1	55.0	60.9	63.0	64.9
75°	66.9	68.8	68.8	60.9	49.2	41.3	35.4	29.5	23.6	19.7	17.7
77.5°	45.3	47.2	51.1	45.3	37.3	27.6	21.6	15.7	9.9	3.9	3.9
80°	39.3	45.3	49.2	45.3	39.3	29.5	21.6	11.8	5.9	0.0	0.0
82.5°	41.3	45.3	51.1	43.2	37.3	27.6	21.6	13.8	5.9	2.0	0.0
85°	9.9	9.9	11.8	13.8	17.7	19.7	15.7	9.9	5.9	2.0	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	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)