

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: P647959

Luminaire Tested: **GALN-SA5A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647959
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-SA5A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 10905.6 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

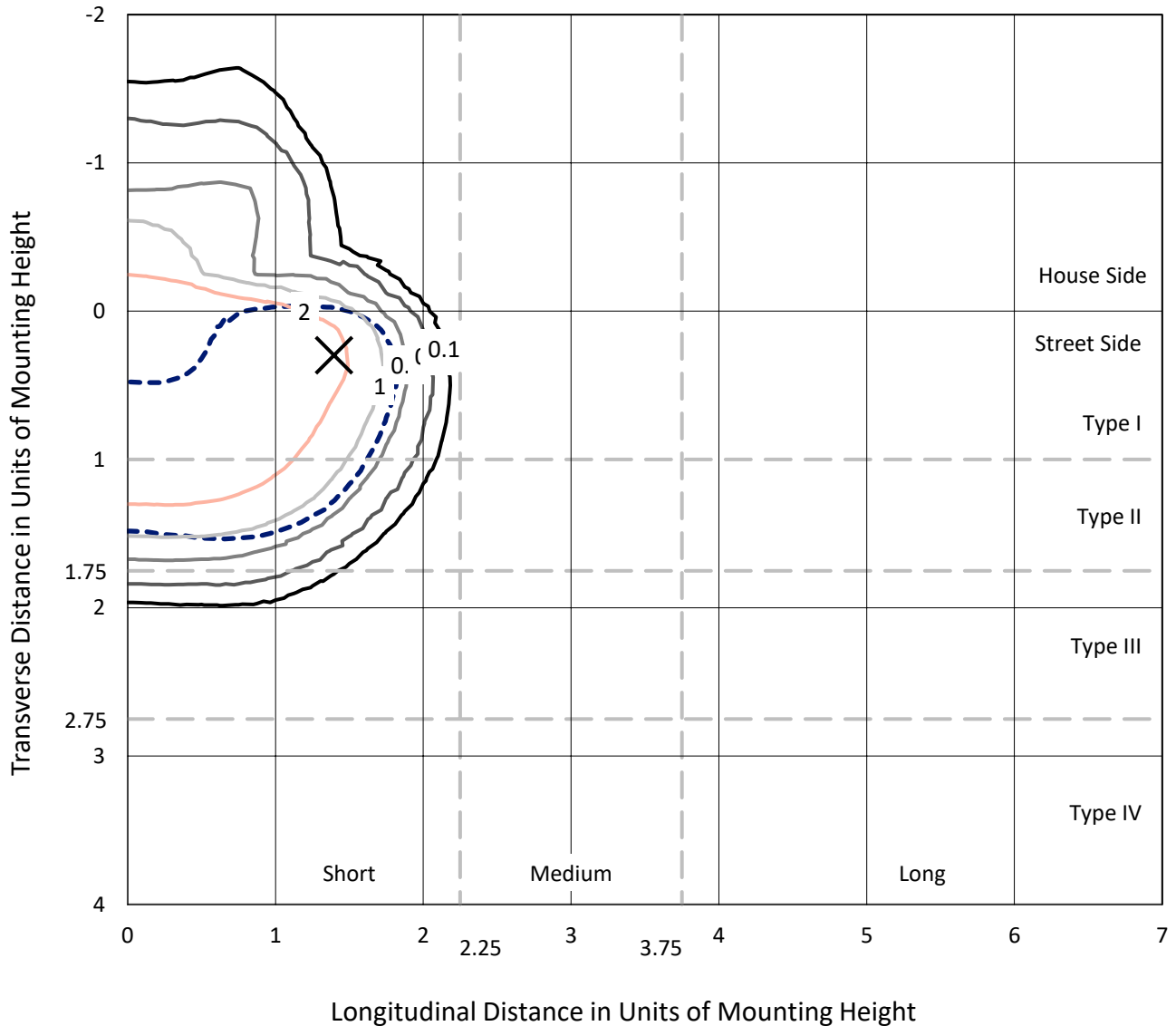
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

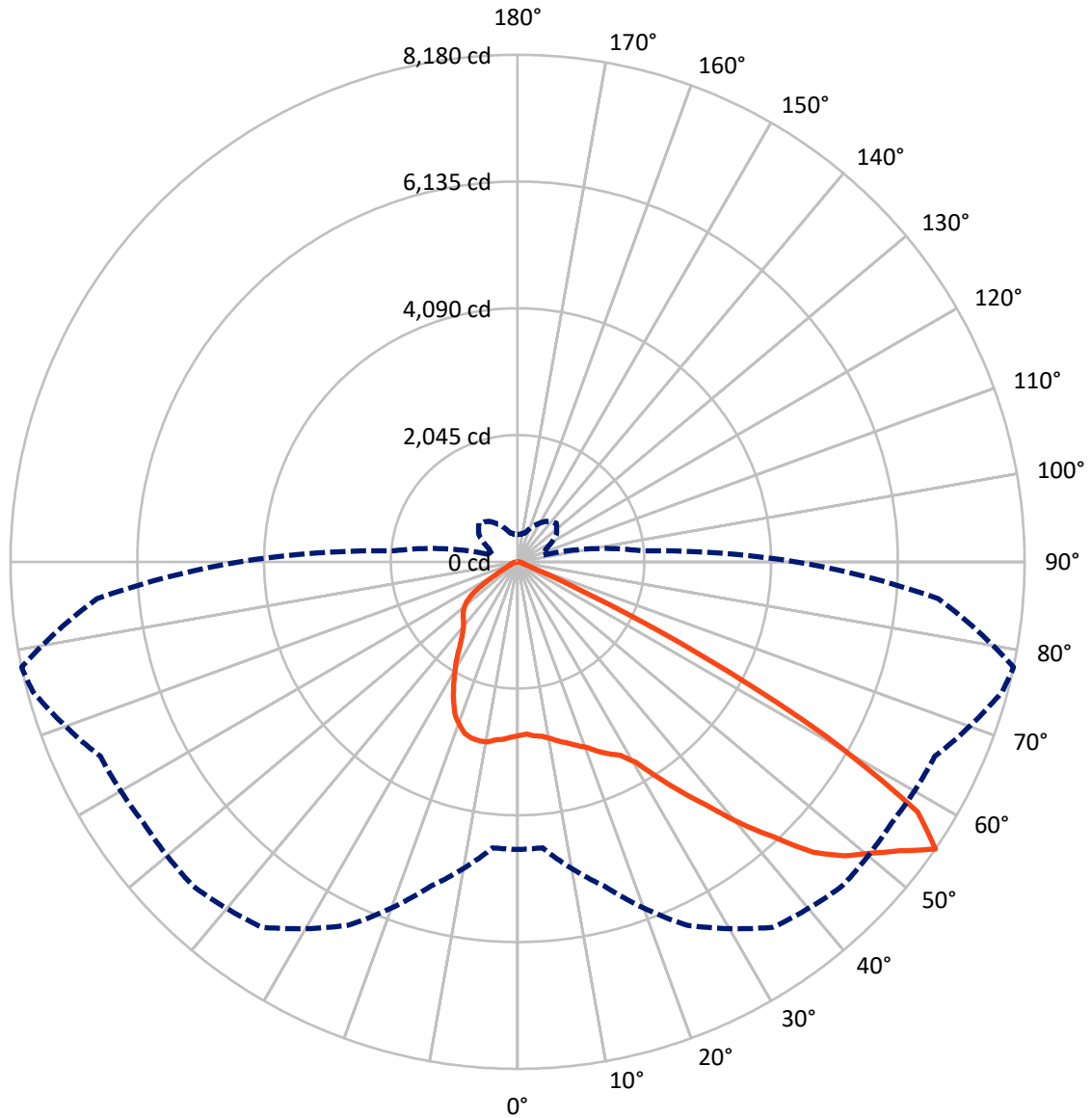
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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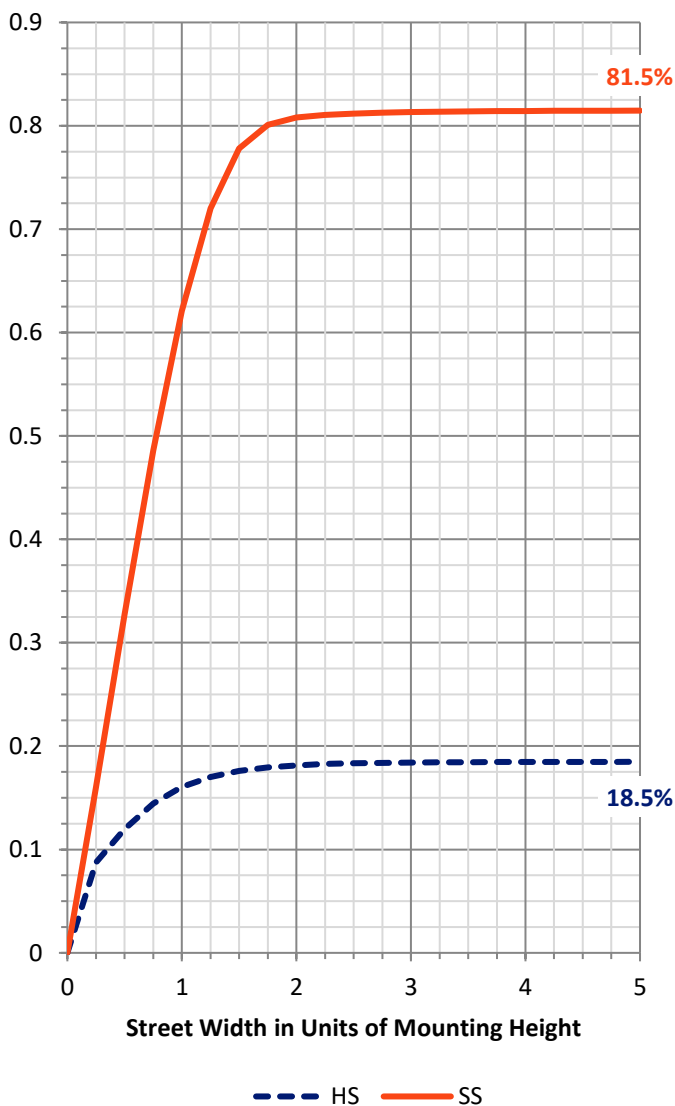
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.6	0.0	2025.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8880.0	0.0	8880.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	10905.6	0.0	10905.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	2.3
10°-20°	661.7	6.1
20°-30°	1159.8	10.6
30°-40°	1912.3	17.5
40°-50°	2782.7	25.5
50°-60°	3153.1	28.9
60°-70°	901.5	8.3
70°-80°	70.0	0.6
80°-90°	14.6	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°	10905.6	100.0
0°-180°	10905.6	100.0

Coefficient of Utilization

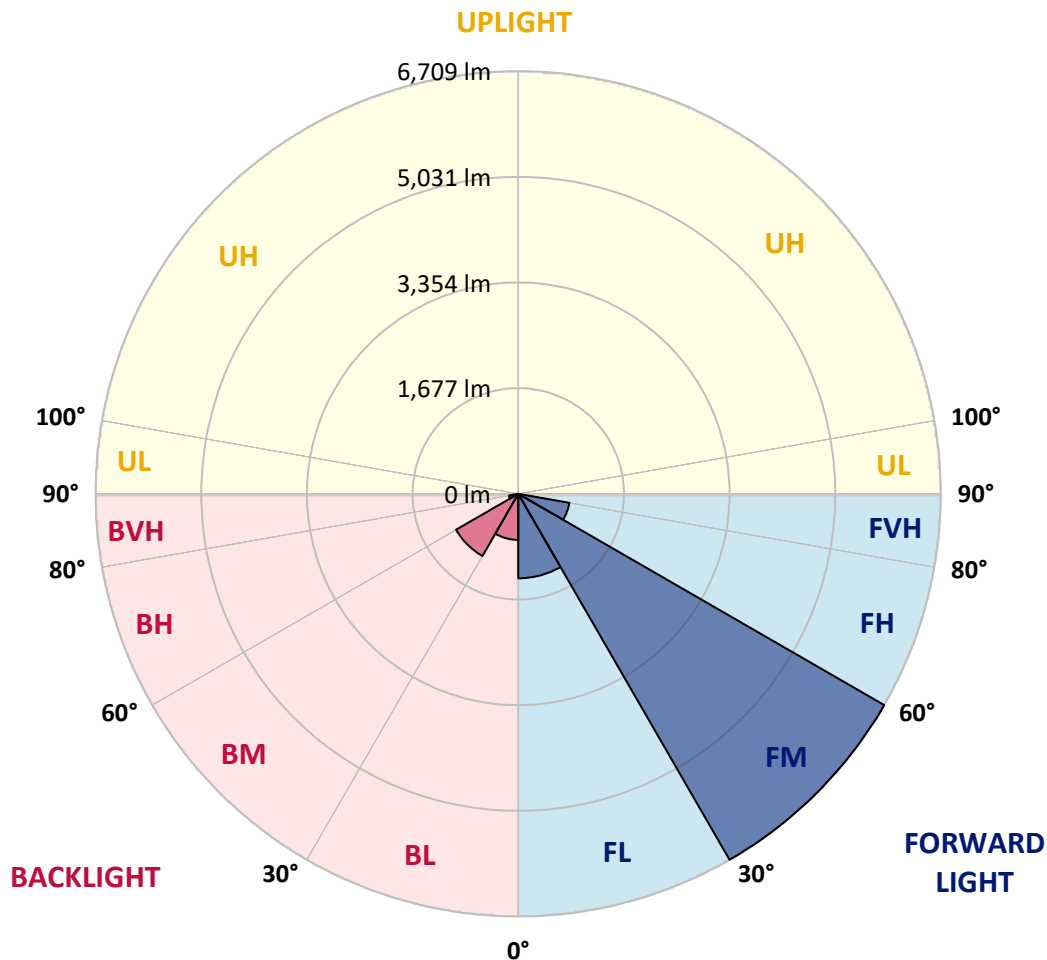


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.6	12.3			
FM (30°-60°)	6708.6	61.5			
FH (60°-80°)	823.7	7.6			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	730.8	6.7	B2/1000		
BM (30°-60°)	1139.4	10.4	B2/2500		
BH (60°-80°)	147.9	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°	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8
2.5°	2636.1	2661.5	2665.4	2696.6	2694.6	2747.3	2762.9	2764.9	2799.9	2782.4	2827.3
5°	2562.1	2548.4	2542.6	2597.1	2612.8	2659.5	2698.5	2721.9	2794.1	2819.4	2866.2
7.5°	2495.7	2495.7	2499.6	2548.4	2542.6	2603.0	2644.0	2716.1	2821.4	2842.8	2899.4
10°	2431.4	2408.0	2437.2	2488.0	2530.9	2558.1	2644.0	2712.2	2835.0	2897.4	2975.4
12.5°	2398.3	2410.0	2413.9	2450.9	2497.7	2579.6	2626.4	2739.5	2932.5	2969.6	3053.4
15°	2606.9	2583.5	2527.0	2493.9	2532.8	2571.8	2688.8	2803.8	2983.2	3035.8	3129.5
17.5°	2848.7	2829.2	2782.4	2692.7	2605.0	2677.1	2768.8	2874.0	3037.8	3115.8	3254.2
20°	3164.6	3133.3	3086.6	2911.1	2835.0	2757.0	2854.5	2979.3	3127.5	3197.7	3340.0
22.5°	3540.9	3540.9	3435.6	3223.1	3065.1	2991.1	3031.9	3104.1	3227.0	3322.5	3462.9
25°	3932.8	3921.1	3825.6	3605.2	3338.1	3250.4	3297.1	3347.9	3381.0	3433.6	3527.3
27.5°	4381.3	4313.0	4192.1	3948.4	3712.4	3542.8	3593.5	3548.7	3507.8	3535.0	3669.5
30°	4685.4	4728.3	4574.3	4340.3	4118.0	3928.9	3938.6	3899.7	3712.4	3751.4	3831.4
32.5°	5001.3	5028.6	4942.8	4814.1	4591.8	4371.5	4291.5	4258.4	4118.0	4135.6	4057.6
35°	5264.5	5317.2	5241.1	5184.6	5120.2	4942.8	4722.4	4829.7	4603.5	4560.7	4357.9
37.5°	5506.3	5490.7	5580.4	5521.9	5508.2	5383.4	5141.6	5163.1	5011.0	5001.3	4767.3
40°	5722.7	5726.6	5849.5	5876.7	5822.2	5599.9	5248.9	5418.5	5541.4	5553.1	5252.8
42.5°	5902.1	5954.7	6060.0	6280.4	6198.5	5828.0	5360.0	5545.3	6001.5	6073.7	5713.0
45°	6058.1	6165.3	6295.9	6492.9	6446.1	6151.7	5636.9	5806.6	6492.9	6682.0	6145.8
47.5°	6067.9	6208.3	6350.6	6643.1	6701.5	6325.2	5923.6	6219.9	6882.9	7087.6	6461.7
50°	6028.9	6102.9	6387.6	6705.5	6838.0	6608.0	6325.2	6567.0	7261.2	7389.8	6621.6
52.5°	5566.7	5623.3	6194.5	6763.9	7083.7	6927.7	6857.5	7050.5	7647.2	7742.8	6771.7
55°	4640.6	4630.8	5416.6	6469.5	7196.8	7401.5	7358.6	7426.8	8093.7	8179.5	6808.8
57.5°	3174.3	3351.7	4030.3	5387.4	6504.6	7290.4	7335.2	7222.2	7573.1	7606.2	5935.2
60°	1712.0	1786.0	2332.0	3595.5	4952.6	5941.1	6058.1	5853.4	5826.1	5732.5	4237.0
62.5°	680.5	717.5	1027.5	1780.2	2698.5	3611.0	3862.6	3778.8	3599.4	3353.7	2193.6
65°	323.7	347.1	510.8	832.6	1197.2	1505.2	1756.8	1834.8	1353.2	1218.7	723.4
67.5°	220.3	237.9	372.4	475.8	427.0	446.5	581.1	540.1	317.8	271.0	200.8
70°	167.7	179.4	298.3	323.7	191.1	134.5	150.1	140.4	130.6	132.6	130.6
72.5°	118.9	128.7	218.4	191.1	83.9	62.4	79.9	95.5	95.5	95.5	93.6
75°	72.1	81.9	126.8	74.1	33.1	33.1	50.7	64.4	68.3	70.2	66.3
77.5°	37.0	46.8	42.9	21.5	21.5	25.4	37.0	44.9	48.8	48.8	46.8
80°	7.8	7.8	7.8	11.7	21.5	27.3	37.0	41.0	46.8	46.8	42.9
82.5°	0.0	2.0	5.9	11.7	19.5	25.4	35.1	41.0	46.8	48.8	44.9
85°	0.0	2.0	3.9	7.8	13.6	15.6	13.6	11.7	11.7	11.7	11.7
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°	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8	2803.8
2.5°	2831.2	2837.0	2827.3	2825.3	2817.5	2840.9	2784.3	2770.7	2805.8	2772.7	2780.4
5°	2868.2	2881.8	2864.3	2835.0	2792.2	2725.9	2669.3	2595.2	2560.1	2534.8	2530.9
7.5°	2895.5	2905.2	2887.7	2794.1	2665.4	2497.7	2373.0	2281.3	2209.2	2187.7	2152.6
10°	3006.6	3008.6	2920.8	2714.1	2462.6	2242.3	2051.2	1910.8	1838.7	1793.9	1774.4
12.5°	3080.7	3076.8	2899.4	2556.2	2220.8	1928.4	1710.0	1540.4	1474.1	1452.6	1439.0
15°	3174.3	3152.8	2848.7	2394.4	1908.9	1593.0	1396.1	1279.1	1273.2	1259.6	1273.2
17.5°	3248.4	3188.0	2774.6	2099.9	1610.6	1312.2	1183.5	1191.3	1206.9	1220.6	1222.6
20°	3369.3	3244.5	2605.0	1842.6	1333.7	1125.0	1123.1	1158.2	1197.2	1212.8	1228.4
22.5°	3460.9	3267.9	2423.6	1567.6	1107.5	1049.0	1082.2	1134.8	1164.0	1179.7	1203.0
25°	3494.1	3203.6	2181.8	1292.7	998.3	1013.9	1064.6	1099.7	1136.8	1154.3	1144.5
27.5°	3527.3	3170.4	1893.3	1064.6	939.8	990.5	1033.4	1068.5	1080.2	1103.6	1119.2
30°	3607.2	3055.3	1634.0	920.3	910.6	974.9	1006.1	1017.8	1049.0	1062.7	1062.7
32.5°	3671.5	3010.6	1359.1	852.1	906.6	982.7	986.6	986.6	990.5	980.8	976.9
35°	3804.1	2856.5	1113.3	811.1	904.7	984.6	994.4	961.3	871.6	836.5	826.7
37.5°	3967.9	2757.0	932.0	801.4	918.4	1008.0	1023.7	898.9	781.9	725.4	715.6
40°	4166.7	2686.9	813.1	797.5	949.5	1062.7	1015.9	850.1	698.0	616.1	612.2
42.5°	4398.8	2622.5	733.1	795.5	988.5	1119.2	1008.0	809.2	612.2	557.7	565.5
45°	4584.0	2587.4	678.5	781.9	1002.2	1152.3	1013.9	737.0	577.1	542.1	546.0
47.5°	4728.3	2513.4	633.7	758.5	1000.3	1164.0	961.3	707.8	559.6	569.3	579.1
50°	4732.2	2413.9	577.1	707.8	971.0	1142.6	900.8	680.5	555.7	596.6	616.1
52.5°	4679.6	2273.5	516.7	635.6	902.8	1068.5	846.2	668.8	538.2	534.2	557.7
55°	4492.4	2010.3	415.3	514.7	762.4	881.3	797.5	647.3	485.5	440.7	444.6
57.5°	3630.5	1441.0	306.2	368.5	540.1	645.4	719.5	637.6	436.8	374.4	376.3
60°	2248.1	817.0	224.3	251.5	333.4	391.9	583.0	592.7	389.9	315.9	311.9
62.5°	1154.3	403.6	173.5	177.4	204.8	230.0	399.7	497.2	352.9	300.3	300.3
65°	386.1	198.9	152.1	136.5	136.5	142.3	241.8	345.1	298.3	251.5	251.5
67.5°	165.8	148.2	132.6	118.9	109.2	103.4	136.5	200.8	222.3	191.1	183.3
70°	128.7	124.8	115.0	99.4	85.8	78.0	79.9	103.4	126.8	122.9	118.9
72.5°	95.5	95.5	91.6	78.0	66.3	56.5	52.6	54.6	60.4	62.4	64.4
75°	66.3	68.3	68.3	60.4	48.8	41.0	35.1	29.3	23.4	19.5	17.5
77.5°	44.9	46.8	50.7	44.9	37.0	27.3	21.5	15.6	9.8	3.9	3.9
80°	39.0	44.9	48.8	44.9	39.0	29.3	21.5	11.7	5.9	0.0	0.0
82.5°	41.0	44.9	50.7	42.9	37.0	27.3	21.5	13.6	5.9	2.0	0.0
85°	9.8	9.8	11.7	13.6	17.5	19.5	15.6	9.8	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)