

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: P529285

Luminaire Tested: **GALN-SA4B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529285
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-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 10879 lumens
Efficiency: N/A
Efficacy: 66.3 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



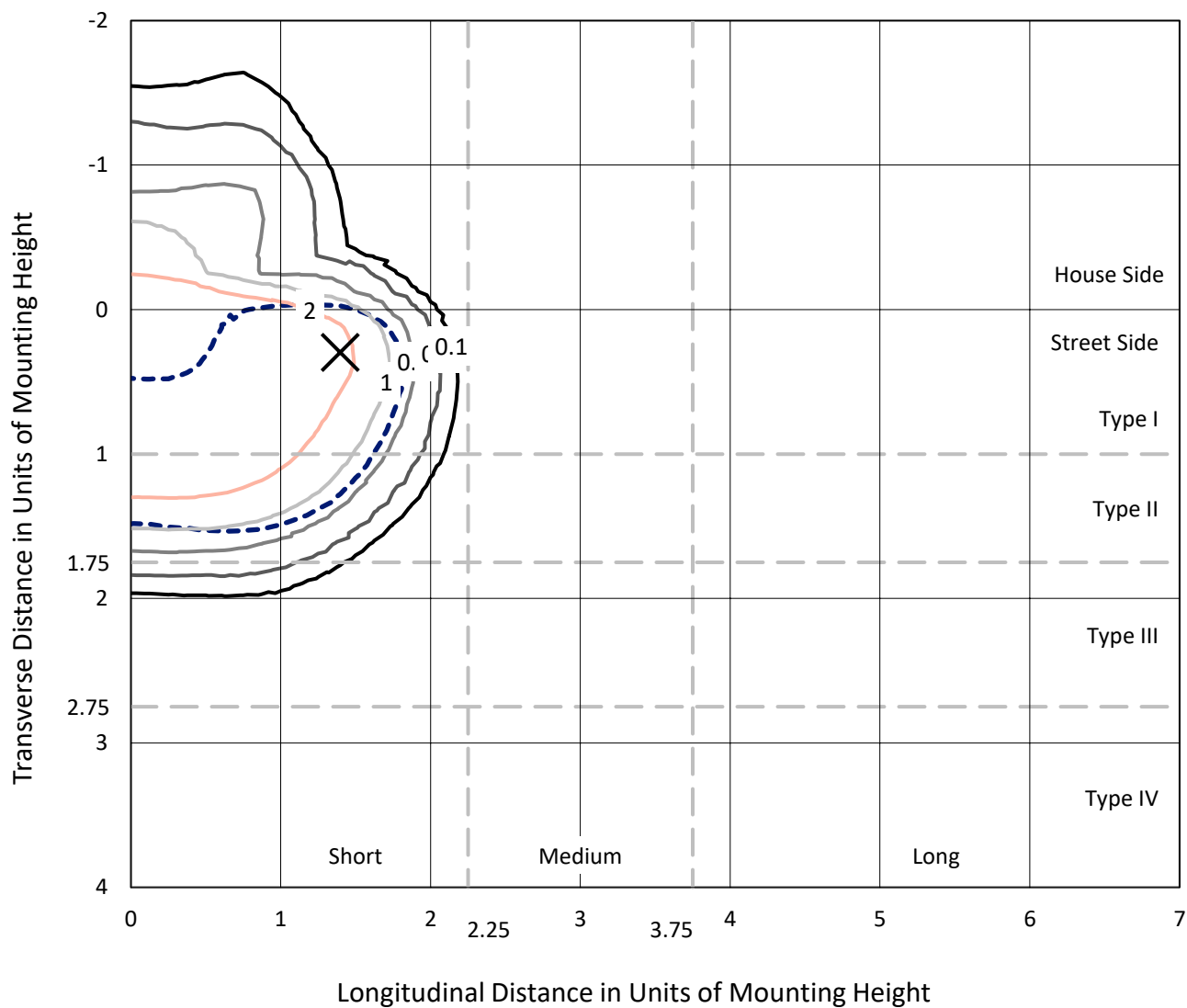
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

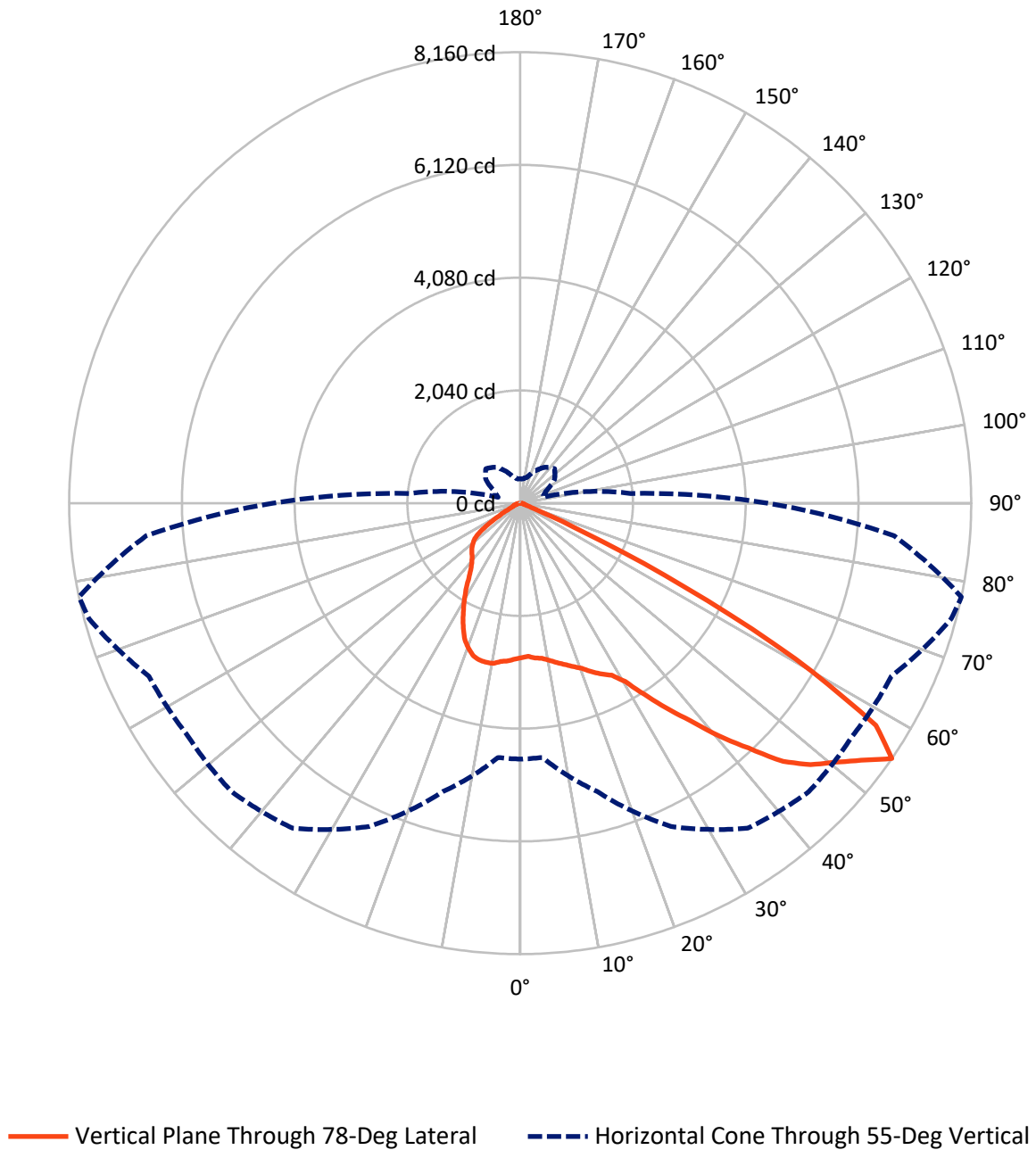


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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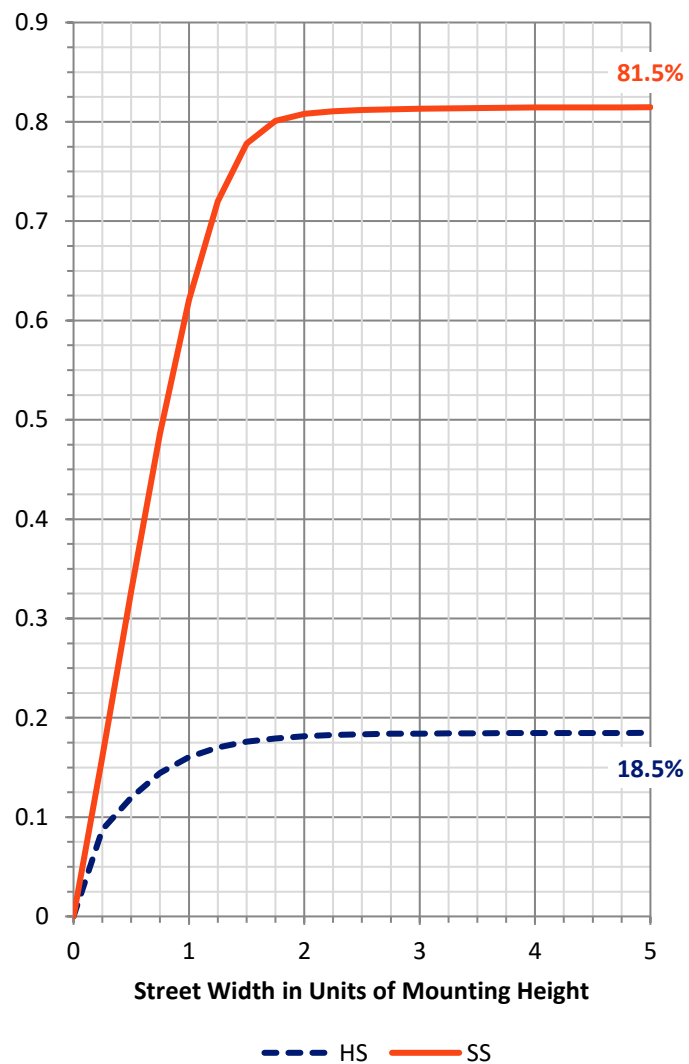
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.6	0.0	2020.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8858.3	0.0	8858.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	10879.0	0.0	10879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	2.3
10°-20°	660.0	6.1
20°-30°	1156.9	10.6
30°-40°	1907.7	17.5
40°-50°	2775.9	25.5
50°-60°	3145.4	28.9
60°-70°	899.3	8.3
70°-80°	69.8	0.6
80°-90°	14.5	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°	10879.0	100.0
0°-180°	10879.0	100.0

Coefficient of Utilization



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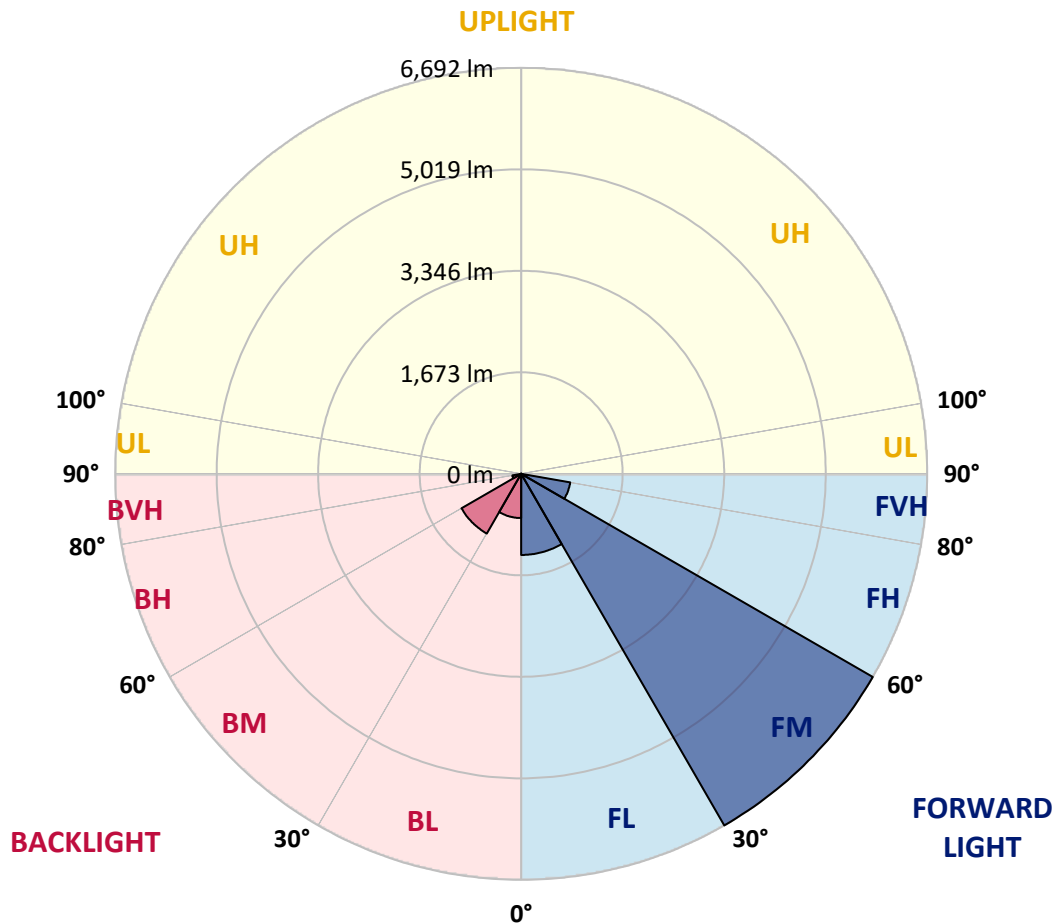
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.3	12.3			
FM	(30°-60°)	6692.3	61.5			
FH	(60°-80°)	821.7	7.6			G1/1800
FVH	(80°-90°)	7.1	0.1			G0/10
BL	(0°-30°)	729.1	6.7	B2/1000		
BM	(30°-60°)	1136.6	10.4	B2/2500		
BH	(60°-80°)	147.5	1.4	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2629.7	2655.0	2658.9	2690.0	2688.1	2740.6	2756.2	2758.1	2793.1	2775.6	2820.3
5°	2555.8	2542.2	2536.4	2590.8	2606.4	2653.1	2692.0	2715.3	2787.3	2812.6	2859.2
7.5°	2489.7	2489.7	2493.6	2542.2	2536.4	2596.7	2637.5	2709.5	2814.5	2835.9	2892.3
10°	2425.5	2402.1	2431.3	2481.9	2524.7	2551.9	2637.5	2705.6	2828.1	2890.4	2968.2
12.5°	2392.4	2404.1	2408.0	2444.9	2491.6	2573.3	2620.0	2732.8	2925.4	2962.3	3046.0
15°	2600.5	2577.2	2520.8	2487.7	2526.6	2565.5	2682.2	2797.0	2975.9	3028.5	3121.8
17.5°	2841.7	2822.3	2775.6	2686.1	2598.6	2670.6	2762.0	2867.0	3030.4	3108.2	3246.3
20°	3156.8	3125.7	3079.0	2904.0	2828.1	2750.3	2847.6	2972.1	3119.9	3189.9	3331.9
22.5°	3532.2	3532.2	3427.2	3215.2	3057.6	2983.7	3024.6	3096.5	3219.1	3314.4	3454.4
25°	3923.2	3911.5	3816.2	3596.4	3329.9	3242.4	3289.1	3339.7	3372.7	3425.3	3518.6
27.5°	4370.6	4302.5	4181.9	3938.7	3703.4	3534.2	3584.7	3540.0	3499.2	3526.4	3660.6
30°	4674.0	4716.8	4563.1	4329.7	4108.0	3919.3	3929.0	3890.1	3703.4	3742.3	3822.0
32.5°	4989.1	5016.3	4930.7	4802.4	4580.6	4360.8	4281.1	4248.0	4108.0	4125.5	4047.7
35°	5251.7	5304.2	5228.3	5171.9	5107.7	4930.7	4710.9	4817.9	4592.3	4549.5	4347.2
37.5°	5492.9	5477.3	5566.8	5508.4	5494.8	5370.3	5129.1	5150.5	4998.8	4989.1	4755.7
40°	5708.8	5712.6	5835.2	5862.4	5808.0	5586.2	5236.1	5405.3	5527.9	5539.5	5240.0
42.5°	5887.7	5940.2	6045.2	6265.0	6183.3	5813.8	5347.0	5531.8	5986.9	6058.9	5699.0
45°	6043.3	6150.3	6280.6	6477.1	6430.4	6136.7	5623.2	5792.4	6477.1	6665.7	6130.8
47.5°	6053.0	6193.1	6335.1	6626.8	6685.2	6309.8	5909.1	6204.7	6866.1	7070.3	6445.9
50°	6014.1	6088.0	6372.0	6689.1	6821.3	6591.8	6309.8	6551.0	7243.4	7371.8	6605.4
52.5°	5553.1	5609.6	6179.5	6747.4	7066.4	6910.8	6840.8	7033.3	7628.5	7723.8	6755.2
55°	4629.2	4619.5	5403.4	6453.7	7179.2	7383.5	7340.7	7408.7	8073.9	8159.5	6792.2
57.5°	3166.6	3343.6	4020.4	5374.2	6488.7	7272.6	7317.3	7204.5	7554.6	7587.7	5920.8
60°	1707.8	1781.7	2326.3	3586.7	4940.5	5926.6	6043.3	5839.1	5811.8	5718.5	4226.6
62.5°	678.8	715.8	1025.0	1775.8	2692.0	3602.3	3853.2	3769.5	3590.6	3345.5	2188.2
65°	322.9	346.2	509.6	830.5	1194.3	1501.6	1752.5	1830.3	1349.9	1215.7	721.6
67.5°	219.8	237.3	371.5	474.6	426.0	445.4	579.6	538.8	317.0	270.4	200.3
70°	167.3	178.9	297.6	322.9	190.6	134.2	149.8	140.0	130.3	132.3	130.3
72.5°	118.6	128.4	217.8	190.6	83.6	62.2	79.7	95.3	95.3	95.3	93.4
75°	72.0	81.7	126.4	73.9	33.1	33.1	50.6	64.2	68.1	70.0	66.1
77.5°	37.0	46.7	42.8	21.4	21.4	25.3	37.0	44.7	48.6	48.6	46.7
80°	7.8	7.8	7.8	11.7	21.4	27.2	37.0	40.8	46.7	46.7	42.8
82.5°	0.0	1.9	5.8	11.7	19.5	25.3	35.0	40.8	46.7	48.6	44.7
85°	0.0	1.9	3.9	7.8	13.6	15.6	13.6	11.7	11.7	11.7	11.7
87.5°	0.0	0.0	1.9	1.9	1.9	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°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2824.2	2830.1	2820.3	2818.4	2810.6	2834.0	2777.5	2763.9	2798.9	2765.9	2773.7
5°	2861.2	2874.8	2857.3	2828.1	2785.3	2719.2	2662.8	2588.9	2553.9	2528.6	2524.7
7.5°	2888.4	2898.1	2880.6	2787.3	2658.9	2491.6	2367.1	2275.7	2203.8	2182.4	2147.3
10°	2999.3	3001.2	2913.7	2707.5	2456.6	2236.8	2046.2	1906.2	1834.2	1789.5	1770.0
12.5°	3073.2	3069.3	2892.3	2550.0	2215.4	1923.7	1705.8	1536.6	1470.5	1449.1	1435.5
15°	3166.6	3145.2	2841.7	2388.5	1904.2	1589.1	1392.7	1276.0	1270.1	1256.5	1270.1
17.5°	3240.5	3180.2	2767.8	2094.8	1606.6	1309.0	1180.7	1188.4	1204.0	1217.6	1219.6
20°	3361.1	3236.6	2598.6	1838.1	1330.4	1122.3	1120.4	1155.4	1194.3	1209.8	1225.4
22.5°	3452.5	3259.9	2417.7	1563.8	1104.8	1046.4	1079.5	1132.0	1161.2	1176.8	1200.1
25°	3485.5	3195.7	2176.5	1289.6	995.9	1011.4	1062.0	1097.0	1134.0	1151.5	1141.8
27.5°	3518.6	3162.7	1888.7	1062.0	937.5	988.1	1030.9	1065.9	1077.6	1100.9	1116.5
30°	3598.4	3047.9	1630.0	918.1	908.3	972.5	1003.7	1015.3	1046.4	1060.1	1060.1
32.5°	3662.5	3003.2	1355.7	850.0	904.5	980.3	984.2	984.2	988.1	978.4	974.5
35°	3794.8	2849.5	1110.6	809.1	902.5	982.3	992.0	958.9	869.4	834.4	824.7
37.5°	3958.2	2750.3	929.7	799.4	916.1	1005.6	1021.2	896.7	780.0	723.6	713.8
40°	4156.6	2680.3	811.1	795.5	947.2	1060.1	1013.4	848.0	696.3	614.6	610.7
42.5°	4388.1	2616.1	731.3	793.6	986.1	1116.5	1005.6	807.2	610.7	556.3	564.1
45°	4572.8	2581.1	676.9	780.0	999.8	1149.5	1011.4	735.2	575.7	540.7	544.6
47.5°	4716.8	2507.2	632.1	756.6	997.8	1161.2	958.9	706.1	558.2	568.0	577.7
50°	4720.7	2408.0	575.7	706.1	968.6	1139.8	898.6	678.8	554.3	595.2	614.6
52.5°	4668.1	2267.9	515.4	634.1	900.6	1065.9	844.2	667.2	536.8	532.9	556.3
55°	4481.4	2005.4	414.3	513.5	760.5	879.2	795.5	645.8	484.3	439.6	443.5
57.5°	3621.7	1437.4	305.4	367.6	538.8	643.8	717.7	636.0	435.7	373.5	375.4
60°	2242.7	815.0	223.7	250.9	332.6	391.0	581.6	591.3	389.0	315.1	311.2
62.5°	1151.5	402.6	173.1	177.0	204.2	229.5	398.7	496.0	352.1	299.5	299.5
65°	385.1	198.4	151.7	136.2	136.2	142.0	241.2	344.3	297.6	250.9	250.9
67.5°	165.3	147.8	132.3	118.6	108.9	103.1	136.2	200.3	221.7	190.6	182.8
70°	128.4	124.5	114.8	99.2	85.6	77.8	79.7	103.1	126.4	122.5	118.6
72.5°	95.3	95.3	91.4	77.8	66.1	56.4	52.5	54.5	60.3	62.2	64.2
75°	66.1	68.1	68.1	60.3	48.6	40.8	35.0	29.2	23.3	19.5	17.5
77.5°	44.7	46.7	50.6	44.7	37.0	27.2	21.4	15.6	9.7	3.9	3.9
80°	38.9	44.7	48.6	44.7	38.9	29.2	21.4	11.7	5.8	0.0	0.0
82.5°	40.8	44.7	50.6	42.8	37.0	27.2	21.4	13.6	5.8	1.9	0.0
85°	9.7	9.7	11.7	13.6	17.5	19.5	15.6	9.7	5.8	1.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	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)