

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: P648451

Luminaire Tested: **GALN-SA5B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648451
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-SA5B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 13324.3 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

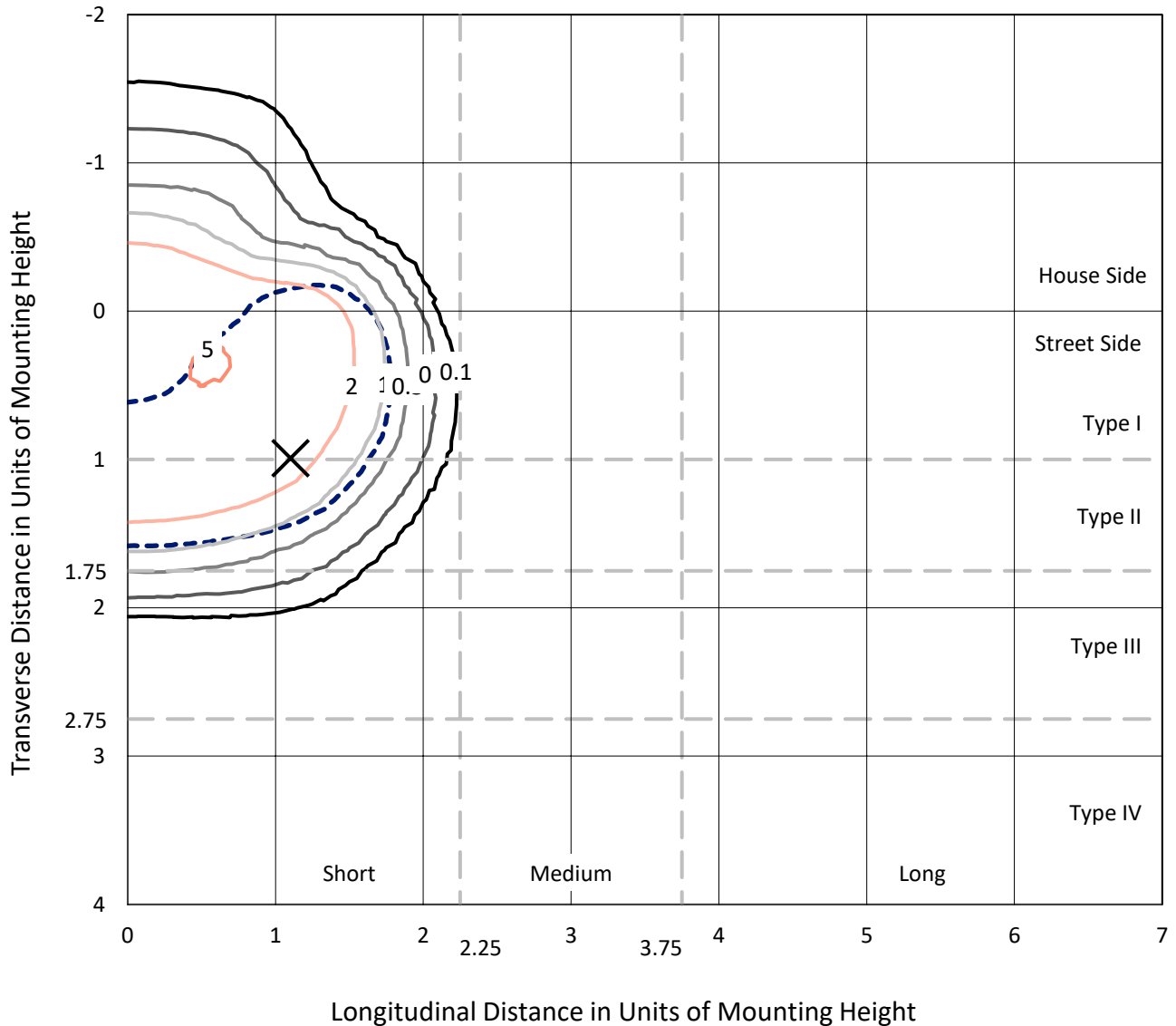
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

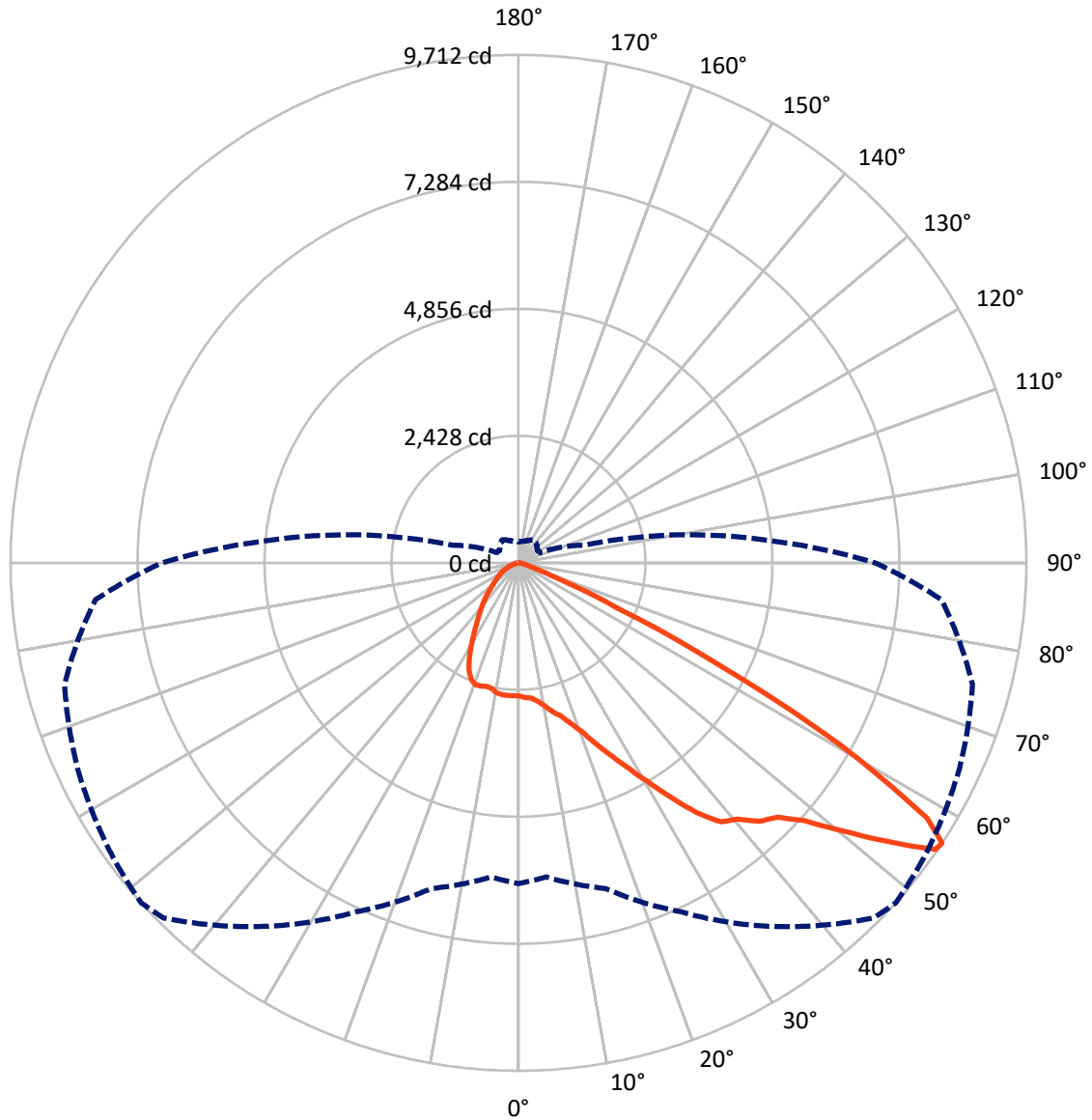
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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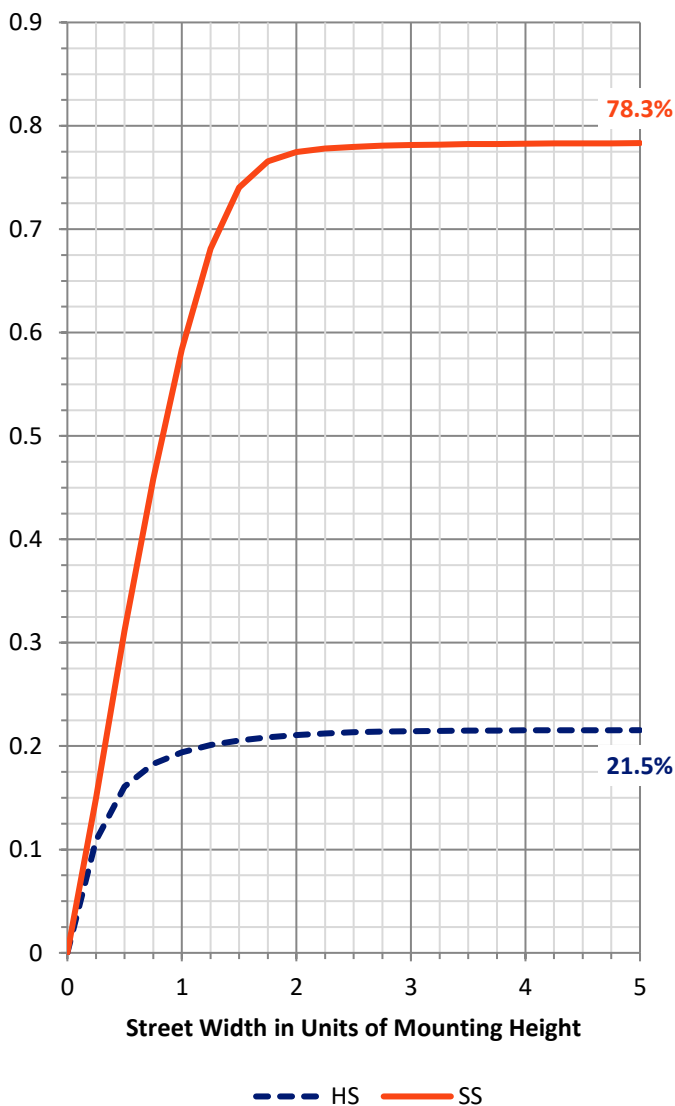
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2897.8	0.0	2897.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10426.5	0.0	10426.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	13324.3	0.0	13324.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.9
10°-20°	792.3	5.9
20°-30°	1437.0	10.8
30°-40°	2257.3	16.9
40°-50°	3292.9	24.7
50°-60°	3967.3	29.8
60°-70°	1161.6	8.7
70°-80°	147.4	1.1
80°-90°	20.7	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°	13324.3	100.0
0°-180°	13324.3	100.0

Coefficient of Utilization



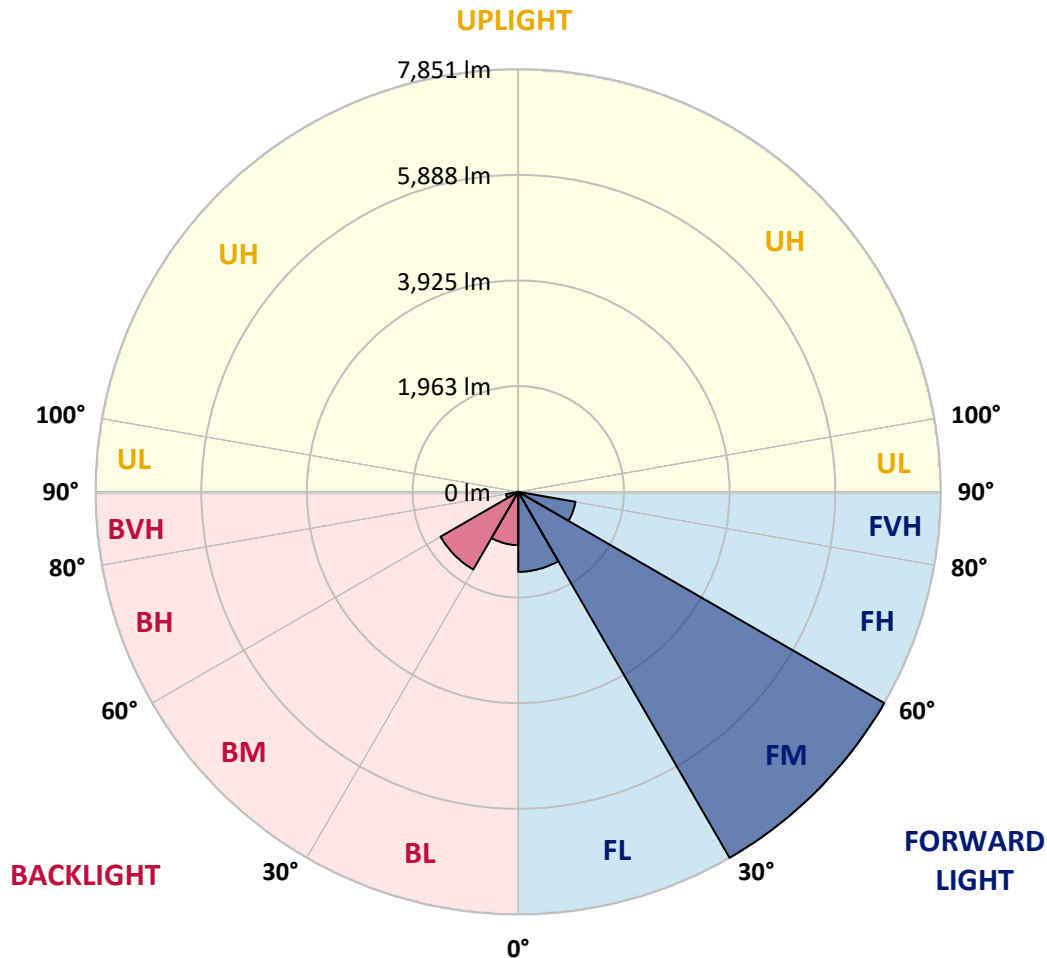
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.7	11.2			
FM (30°-60°)	7850.7	58.9			
FH (60°-80°)	1078.7	8.1			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	990.5	7.4	B2/1000		
BM (30°-60°)	1666.8	12.5	B2/2500		
BH (60°-80°)	230.3	1.7	B1/500		G1/500
BVH (80°-90°)	10.3	0.1			G1/100
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°	48°	55°	65°	75°	85°
0°	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0
2.5°	2591.0	2578.9	2578.9	2559.5	2581.3	2571.6	2578.9	2554.6	2578.9	2542.6	2571.6
5°	2603.2	2605.6	2595.9	2608.0	2608.0	2622.6	2598.3	2620.2	2632.3	2605.6	2593.5
7.5°	2666.3	2671.1	2668.7	2659.0	2678.4	2676.0	2673.6	2656.6	2661.4	2651.7	2637.1
10°	2790.0	2787.6	2799.7	2775.4	2760.9	2777.8	2782.7	2756.0	2736.6	2729.3	2683.3
12.5°	2969.5	2940.4	2923.4	2899.1	2906.4	2882.1	2925.8	2879.7	2870.0	2826.4	2780.3
15°	3115.1	3110.2	3112.7	3073.8	3030.1	3039.8	3039.8	3015.6	3001.1	2947.7	2882.1
17.5°	3413.5	3311.6	3333.4	3284.9	3248.5	3246.1	3224.2	3229.1	3190.3	3078.7	2979.2
20°	3646.4	3602.7	3568.8	3486.2	3430.5	3447.5	3437.8	3413.5	3401.4	3255.8	3115.1
22.5°	3855.0	3869.6	3813.8	3791.9	3714.3	3721.6	3741.0	3719.2	3627.0	3476.6	3267.9
25°	4148.6	4131.6	4056.4	4029.7	3956.9	3983.6	4058.8	4041.8	3983.6	3711.9	3386.8
27.5°	4495.5	4437.3	4451.8	4330.5	4260.1	4335.4	4425.1	4510.1	4345.1	3988.4	3527.5
30°	4740.5	4679.9	4675.1	4670.2	4653.2	4740.5	4844.9	4922.5	4789.1	4265.0	3760.4
32.5°	4861.9	4876.4	4917.6	4903.1	5051.1	5230.6	5339.7	5451.4	5284.0	4716.3	4068.5
35°	5184.5	5092.3	5184.5	5194.2	5347.0	5728.0	5866.2	6133.1	6091.9	5354.3	4444.5
37.5°	5373.7	5366.4	5378.6	5470.8	5618.8	6089.5	6285.9	6492.2	6414.6	5737.7	4912.8
40°	5686.7	5706.1	5703.7	5774.1	5936.6	6361.2	6441.2	6608.6	6615.9	6268.9	5601.8
42.5°	6188.9	6111.2	6060.3	6133.1	6361.2	6596.5	6756.6	6722.7	6962.8	6914.3	6487.3
45°	6640.2	6686.3	6611.0	6732.3	6814.8	6941.0	6936.1	7008.9	7314.6	7545.1	7154.5
47.5°	7062.3	7091.4	7127.8	7210.3	7389.8	7409.2	7368.0	7336.5	7758.6	7996.3	7671.2
50°	7314.6	7341.3	7511.1	7659.1	7993.9	8037.6	8061.8	7981.7	8268.1	8294.7	8158.9
52.5°	7246.7	7275.8	7513.5	8001.2	8534.9	8935.2	8862.5	8726.6	8709.6	8813.9	8610.1
55°	6645.0	6618.3	6945.8	7705.2	8704.8	9665.5	9675.1	9532.0	9257.9	9187.6	8542.2
56°	6133.1	6028.8	6446.0	7363.1	8486.4	9602.4	9711.5	9558.7	9301.6	8986.2	8122.5
57.5°	5024.4	5123.9	5538.7	6298.1	7731.9	9148.7	9211.8	9175.4	8981.3	8452.4	7147.2
60°	2770.6	2945.3	3311.6	4240.8	5504.7	7021.1	7072.0	7368.0	7404.4	6472.7	4917.6
62.5°	1176.6	1157.3	1538.1	2222.3	3134.5	4238.4	4333.0	4636.2	4692.0	3731.3	2467.3
65°	477.9	504.6	696.2	1118.4	1657.0	1931.2	2064.6	2164.1	2348.5	1540.6	909.8
67.5°	315.4	313.0	410.0	638.1	892.8	861.2	861.2	909.8	841.9	628.4	393.0
70°	225.7	232.9	293.5	441.5	555.5	412.4	395.4	378.5	429.4	414.8	317.8
72.5°	148.0	157.7	196.5	264.4	288.7	225.7	225.7	271.7	354.2	334.8	259.6
75°	97.0	99.4	121.3	152.8	143.1	116.4	128.6	182.0	257.1	247.4	184.4
77.5°	65.5	68.0	82.4	99.4	80.0	65.5	70.4	92.2	126.1	126.1	97.0
80°	24.3	26.7	34.0	31.6	36.4	46.1	51.0	63.1	75.2	75.2	65.5
82.5°	0.0	2.4	7.3	17.0	26.7	36.4	41.3	48.5	55.8	63.1	60.7
85°	0.0	2.4	7.3	12.1	19.4	21.8	24.3	17.0	14.6	14.6	12.1
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.9	2.4	2.4
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°	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0	2545.0
2.5°	2545.0	2542.6	2542.6	2535.3	2549.8	2542.6	2547.4	2545.0	2513.4	2537.7	2520.7
5°	2571.6	2588.6	2561.9	2557.0	2537.7	2545.0	2545.0	2520.7	2542.6	2540.1	2535.3
7.5°	2639.6	2610.4	2581.3	2552.2	2547.4	2540.1	2513.4	2503.7	2520.7	2501.3	2530.4
10°	2668.7	2673.6	2629.9	2591.0	2554.6	2503.7	2467.3	2445.5	2418.8	2447.9	2464.9
12.5°	2802.1	2753.6	2678.4	2617.7	2494.0	2443.0	2406.6	2397.0	2443.0	2452.7	2435.8
15°	2848.2	2841.0	2743.9	2608.0	2479.4	2418.8	2426.0	2406.6	2411.5	2387.3	2392.1
17.5°	2942.8	2860.4	2746.3	2576.5	2477.0	2462.5	2418.8	2341.2	2297.5	2278.1	2295.1
20°	3047.1	2967.1	2802.1	2588.6	2498.9	2460.0	2316.9	2222.3	2132.5	2084.0	2086.5
22.5°	3139.4	3039.8	2777.8	2593.5	2518.3	2358.2	2185.9	1999.1	1887.5	1812.3	1814.7
25°	3250.9	3110.2	2787.6	2603.2	2467.3	2195.6	1948.1	1766.2	1632.7	1581.8	1598.8
27.5°	3314.0	3153.9	2841.0	2625.0	2333.9	1965.1	1698.2	1528.4	1450.8	1426.5	1424.1
30°	3503.2	3250.9	2906.4	2581.3	2110.7	1717.7	1470.2	1365.9	1290.7	1268.9	1273.7
32.5°	3784.7	3428.1	2991.4	2467.3	1882.6	1496.9	1322.2	1244.6	1174.2	1133.0	1128.1
35°	4020.0	3731.3	3081.1	2290.2	1618.2	1327.0	1217.9	1120.9	1014.1	968.0	955.9
37.5°	4468.8	4073.4	3061.7	2023.4	1365.9	1200.9	1106.3	987.4	895.2	832.2	824.9
40°	5065.6	4473.7	2967.1	1698.2	1179.0	1089.3	987.4	873.4	759.4	706.0	701.1
42.5°	5791.1	4963.8	2794.8	1368.3	992.3	977.7	885.5	754.5	652.6	613.8	616.2
45°	6380.6	5383.4	2620.2	1099.0	853.9	868.5	788.5	664.8	594.4	562.8	562.8
47.5°	6904.6	5667.3	2430.9	907.3	725.4	759.4	689.0	616.2	555.5	531.3	526.5
50°	7409.2	5956.0	2241.7	735.1	618.6	652.6	645.3	587.1	538.6	509.5	511.9
52.5°	7724.6	6002.1	2001.5	601.7	541.1	579.8	604.1	550.7	497.4	480.4	475.5
55°	7338.9	5407.7	1552.7	494.9	458.5	509.5	555.5	494.9	453.7	424.5	422.1
56°	6819.7	4835.2	1298.0	456.1	434.3	490.1	538.6	473.1	427.0	410.0	397.8
57.5°	5774.1	3956.9	958.3	405.1	402.7	456.1	511.9	451.2	397.8	383.4	383.4
60°	3600.3	2227.2	579.8	339.7	349.4	405.1	461.0	402.7	354.2	354.2	361.5
62.5°	1640.0	926.8	351.8	288.7	300.8	349.4	410.0	363.9	337.2	363.9	368.8
65°	558.0	400.3	254.7	230.5	237.7	288.7	351.8	368.8	366.4	383.4	393.0
67.5°	313.0	257.1	213.5	191.7	186.8	213.5	288.7	368.8	354.2	346.9	351.8
70°	264.4	218.4	189.3	169.8	162.6	172.3	223.2	279.0	249.9	242.6	237.7
72.5°	213.5	182.0	165.0	152.8	131.0	111.6	101.9	106.7	118.9	126.1	138.3
75°	150.4	138.3	138.3	123.7	94.6	70.4	55.8	46.1	31.6	21.8	24.3
77.5°	84.9	84.9	87.3	75.2	60.7	46.1	34.0	24.3	12.1	4.9	2.4
80°	58.3	63.1	68.0	60.7	51.0	41.3	29.1	17.0	7.3	0.0	0.0
82.5°	58.3	65.5	70.4	60.7	51.0	38.8	29.1	17.0	7.3	2.4	0.0
85°	12.1	14.6	17.0	19.4	29.1	29.1	21.8	14.6	7.3	2.4	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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)