

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: P647023

Luminaire Tested: **GALN-SA6C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23966.1 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

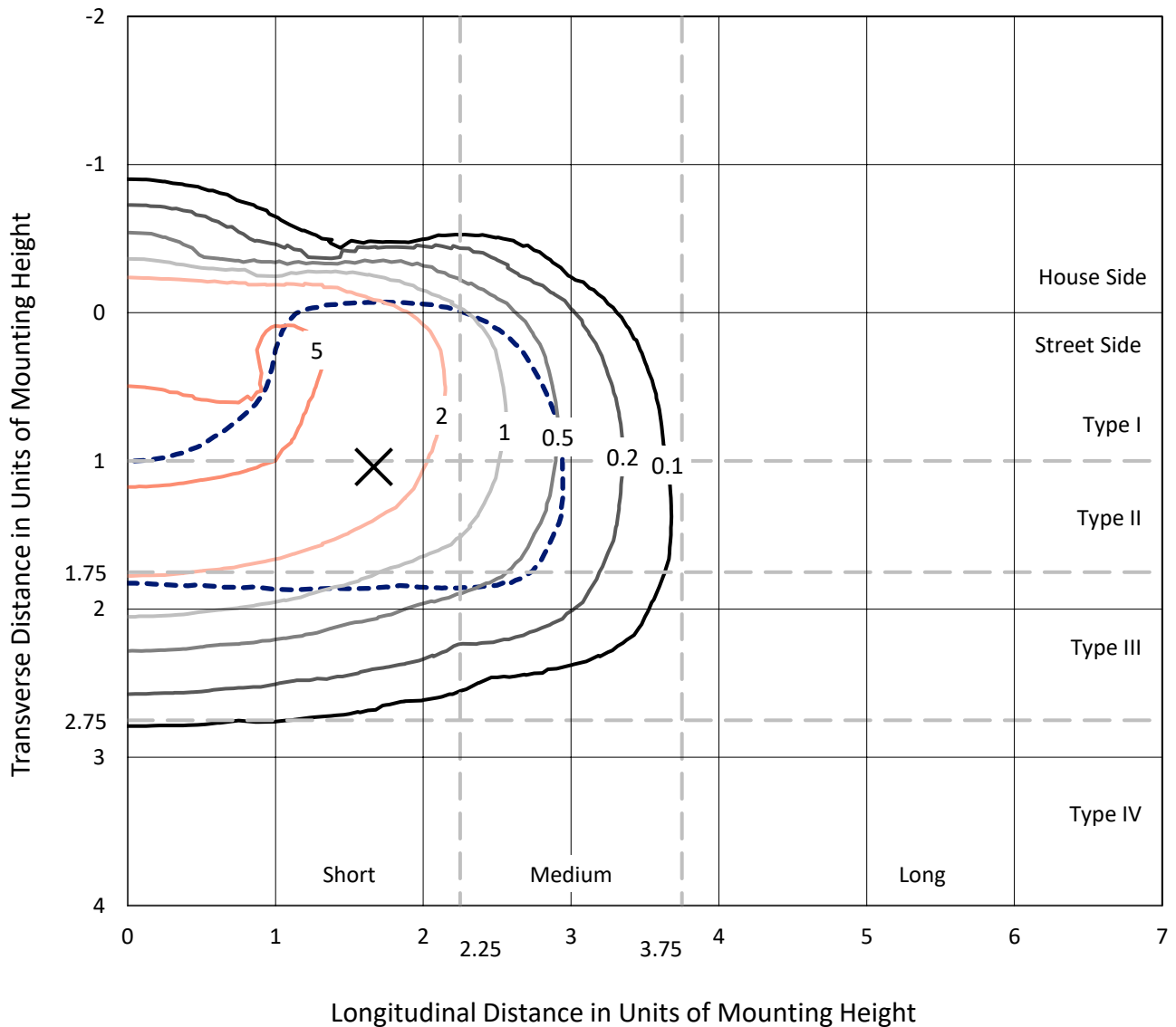
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

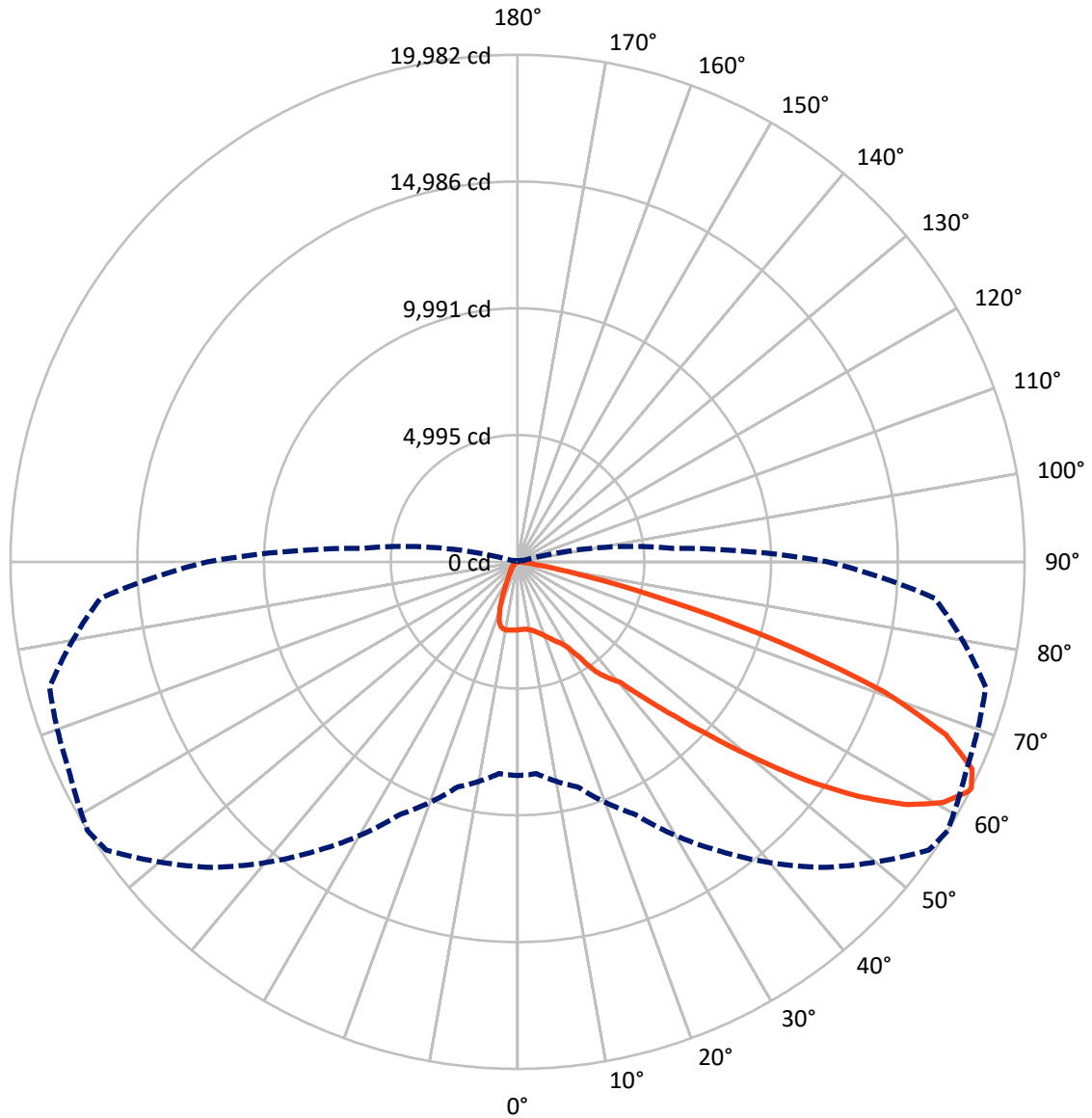
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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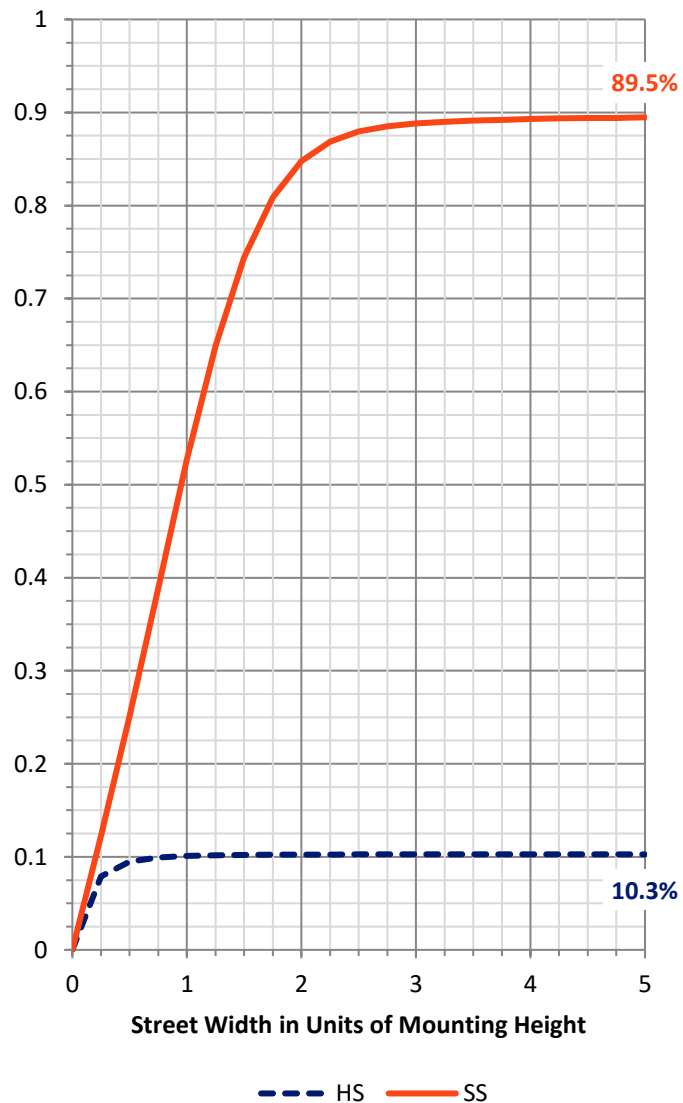
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2481.5	0.0	2481.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21484.6	0.0	21484.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	23966.1	0.0	23966.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	1.0
10°-20°	684.1	2.9
20°-30°	1187.3	5.0
30°-40°	2181.8	9.1
40°-50°	4107.2	17.1
50°-60°	7025.0	29.3
60°-70°	6726.5	28.1
70°-80°	1715.3	7.2
80°-90°	87.7	0.4
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°	23966.1	100.0
0°-180°	23966.1	100.0

Coefficient of Utilization

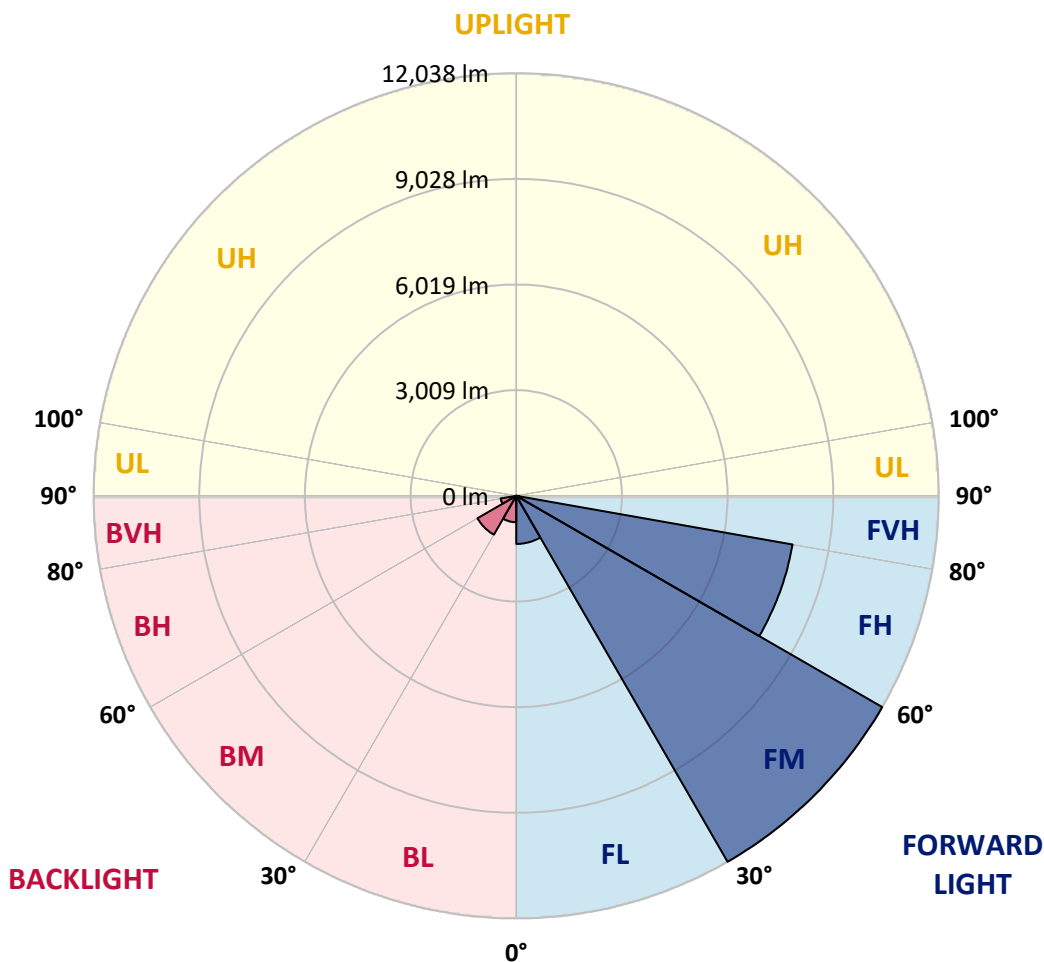


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.0	5.7			
FM (30°-60°)	12037.7	50.2			
FH (60°-80°)	7992.6	33.3			G4/12000
FVH (80°-90°)	84.3	0.4			G1/100
BL (0°-30°)	752.6	3.1	B2/1000		
BM (30°-60°)	1276.4	5.3	B2/2500		
BH (60°-80°)	449.2	1.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1
2.5°	2616.3	2625.3	2634.4	2638.0	2650.6	2663.2	2672.3	2670.5	2684.9	2692.1	2692.1
5°	2511.7	2511.7	2535.1	2556.8	2592.9	2629.0	2663.2	2670.5	2697.5	2722.8	2731.8
7.5°	2423.2	2428.7	2446.7	2486.4	2535.1	2598.3	2666.8	2683.1	2730.0	2785.9	2809.4
10°	2381.7	2385.4	2408.8	2450.3	2511.7	2598.3	2693.9	2724.6	2796.8	2885.2	2917.7
12.5°	2372.7	2378.1	2401.6	2448.5	2518.9	2623.5	2753.5	2785.9	2890.6	3004.3	3053.0
15°	2389.0	2392.6	2416.0	2466.6	2544.1	2668.6	2832.9	2878.0	3002.5	3134.2	3197.3
17.5°	2446.7	2443.1	2459.3	2500.8	2587.4	2724.6	2928.5	2982.6	3128.8	3309.2	3350.7
20°	2692.1	2668.6	2654.2	2618.1	2652.4	2804.0	3044.0	3123.4	3303.8	3487.9	3516.7
22.5°	3220.8	3168.5	3065.6	2924.9	2816.6	2912.2	3182.9	3274.9	3507.7	3688.2	3688.2
25°	3893.9	3827.1	3724.2	3417.5	3152.2	3090.9	3339.9	3455.4	3729.7	3911.9	3852.4
27.5°	4736.4	4684.1	4483.8	4126.6	3720.6	3403.1	3522.1	3628.6	3926.3	4146.5	4022.0
30°	5422.1	5396.8	5232.6	4913.3	4465.8	4002.1	3861.4	3931.7	4188.0	4442.4	4314.3
32.5°	6001.3	6001.3	5833.5	5535.8	5117.2	4705.8	4436.9	4487.5	4732.8	5026.9	4788.8
35°	6638.3	6616.6	6481.3	6198.0	5728.9	5366.2	5256.1	5324.7	5546.6	5764.9	5178.5
37.5°	7307.7	7300.5	7159.8	6885.5	6503.0	6046.4	5788.4	5806.4	5920.1	6053.7	5635.0
40°	8034.8	8045.6	7861.6	7692.0	7331.2	6863.8	6369.4	6255.8	6362.2	6739.3	6477.7
42.5°	8893.7	8868.5	8789.1	8558.1	8267.6	7987.9	7394.3	7352.8	7446.6	7850.8	7567.5
45°	9891.6	9927.7	9790.5	9662.4	9467.5	9234.8	8738.5	8666.4	8769.2	9397.2	8994.8
47.5°	10891.1	10856.8	10945.3	10921.8	11026.5	10853.2	10414.8	10266.9	10514.0	11109.5	10517.6
50°	11652.6	11690.5	11874.5	12143.4	12592.7	12690.1	12269.7	12219.2	12329.3	12711.8	11880.0
52.5°	12147.0	12273.3	12562.0	13253.1	14063.2	14693.0	14373.6	14346.5	14301.4	14404.2	13182.7
55°	12470.0	12598.1	12975.2	13992.8	15387.7	16410.7	16426.9	16311.5	16013.8	15939.8	14400.6
57.5°	12271.5	12296.8	12834.5	14194.9	16122.0	17635.9	18166.4	18050.9	17500.5	17220.9	15476.1
60°	11030.1	11082.4	11831.2	13429.9	15802.7	18036.5	19319.4	19267.0	18664.4	18348.6	16313.3
62.5°	8830.6	8982.1	9752.6	11535.3	14317.6	17361.6	19786.7	19934.6	19465.5	19030.7	16576.7
63°	8426.4	8377.7	9191.5	10983.2	13924.3	17027.8	19793.9	19981.5	19501.6	19095.6	16504.5
65°	6237.7	6383.9	6912.6	8661.0	11587.6	15474.3	19348.2	19680.2	19368.1	18808.8	15705.2
67.5°	3502.3	3495.1	4079.7	5667.5	8110.6	12138.0	17495.1	18197.1	18132.1	16878.0	13018.5
70°	1714.1	1741.2	1981.2	2937.5	4704.0	8374.0	14537.8	15295.6	15319.1	13256.7	9002.0
72.5°	775.9	788.5	960.0	1430.9	2417.8	4458.6	10017.9	10741.4	10607.8	8448.0	4971.0
75°	409.6	436.7	528.7	720.0	1165.7	1838.6	5449.2	6149.3	5869.6	3859.6	1829.6
77.5°	303.1	312.2	359.1	458.3	624.3	716.4	2351.1	2796.8	2619.9	1396.6	606.3
80°	221.9	229.2	267.1	324.8	393.4	364.5	886.0	1015.9	911.2	474.6	185.9
82.5°	135.3	137.1	194.9	241.8	247.2	203.9	292.3	314.0	328.4	267.1	101.0
85°	48.7	61.4	131.7	175.0	146.2	102.9	122.7	135.3	148.0	169.6	59.5
87.5°	5.4	7.2	63.2	84.8	41.5	37.9	45.1	50.5	54.1	63.2	28.9
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°	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1	2683.1
2.5°	2699.3	2706.5	2701.1	2692.1	2690.3	2684.9	2674.1	2674.1	2674.1	2677.7	2674.1
5°	2739.0	2744.4	2731.8	2713.8	2693.9	2668.6	2641.6	2625.3	2623.5	2619.9	2610.9
7.5°	2814.8	2822.0	2793.2	2749.8	2695.7	2634.4	2576.6	2522.5	2497.2	2477.4	2477.4
10°	2924.9	2932.1	2874.4	2796.8	2688.5	2564.0	2426.9	2302.3	2204.9	2159.8	2149.0
12.5°	3056.6	3060.2	2964.6	2829.2	2650.6	2410.6	2118.3	1845.8	1656.4	1569.8	1560.8
15°	3201.0	3175.7	3049.4	2841.9	2542.3	2094.8	1589.6	1255.9	1059.2	1001.5	1023.1
17.5°	3347.1	3300.2	3114.3	2822.0	2298.7	1589.6	1068.2	857.1	795.8	779.5	779.5
20°	3484.2	3419.3	3161.3	2735.4	1876.5	1095.3	792.1	741.6	730.8	720.0	721.8
22.5°	3621.4	3522.1	3202.8	2542.3	1398.4	783.1	709.1	692.9	678.5	664.0	662.2
25°	3754.9	3617.8	3219.0	2185.1	952.7	673.1	647.8	626.1	597.3	581.0	577.4
27.5°	3893.9	3733.3	3208.2	1734.0	694.7	602.7	577.4	546.7	512.5	483.6	483.6
30°	4160.9	3953.4	3170.3	1246.8	584.6	530.5	498.0	449.3	411.4	382.5	380.7
32.5°	4525.3	4240.3	3040.4	877.0	519.7	467.3	418.6	364.5	324.8	303.1	303.1
35°	4850.1	4529.0	2796.8	646.0	467.3	406.0	346.5	294.1	263.4	249.0	243.6
37.5°	5344.5	4951.1	2461.1	525.1	416.8	351.9	290.5	241.8	216.5	205.7	205.7
40°	6086.1	5467.2	2049.7	460.1	368.1	299.5	241.8	203.9	184.1	171.4	171.4
42.5°	7006.4	6098.8	1632.9	413.2	323.0	258.0	202.1	173.2	155.2	146.2	144.4
45°	8164.7	6764.6	1257.7	369.9	286.9	220.1	171.4	146.2	128.1	122.7	124.5
47.5°	9373.7	7351.0	974.4	332.0	249.0	185.9	146.2	126.3	113.7	106.5	106.5
50°	10405.8	7755.1	739.8	288.7	220.1	157.0	128.1	113.7	102.9	99.2	97.4
52.5°	11268.3	7872.4	566.6	250.8	193.1	135.3	113.7	102.9	93.8	88.4	88.4
55°	12002.7	7769.6	443.9	211.1	162.4	117.3	101.0	92.0	81.2	75.8	74.0
57.5°	12432.1	7439.4	339.2	175.0	131.7	97.4	88.4	77.6	65.0	55.9	55.9
60°	12648.6	6959.5	259.8	144.4	101.0	77.6	72.2	57.7	45.1	37.9	36.1
62.5°	12388.8	6322.5	196.7	113.7	75.8	57.7	48.7	41.5	28.9	21.7	21.7
63°	12228.2	6138.5	189.5	108.3	70.4	54.1	45.1	37.9	25.3	19.8	18.0
65°	11147.4	5335.5	155.2	86.6	55.9	37.9	30.7	27.1	18.0	9.0	7.2
67.5°	8852.2	4081.5	122.7	65.0	39.7	27.1	18.0	16.2	5.4	0.0	0.0
70°	5985.1	2636.2	95.6	46.9	27.1	16.2	9.0	7.2	1.8	0.0	0.0
72.5°	3121.6	1351.5	74.0	34.3	16.2	10.8	5.4	1.8	0.0	0.0	0.0
75°	1104.3	460.1	54.1	21.7	10.8	5.4	1.8	0.0	0.0	0.0	0.0
77.5°	333.8	171.4	34.3	16.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	117.3	63.2	19.8	10.8	5.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	57.7	30.7	12.6	9.0	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	32.5	19.8	10.8	9.0	5.4	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	14.4	10.8	9.0	7.2	3.6	1.8	0.0	0.0	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)