

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: P322370

Luminaire Tested: **GLEON-SA6C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 22662 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

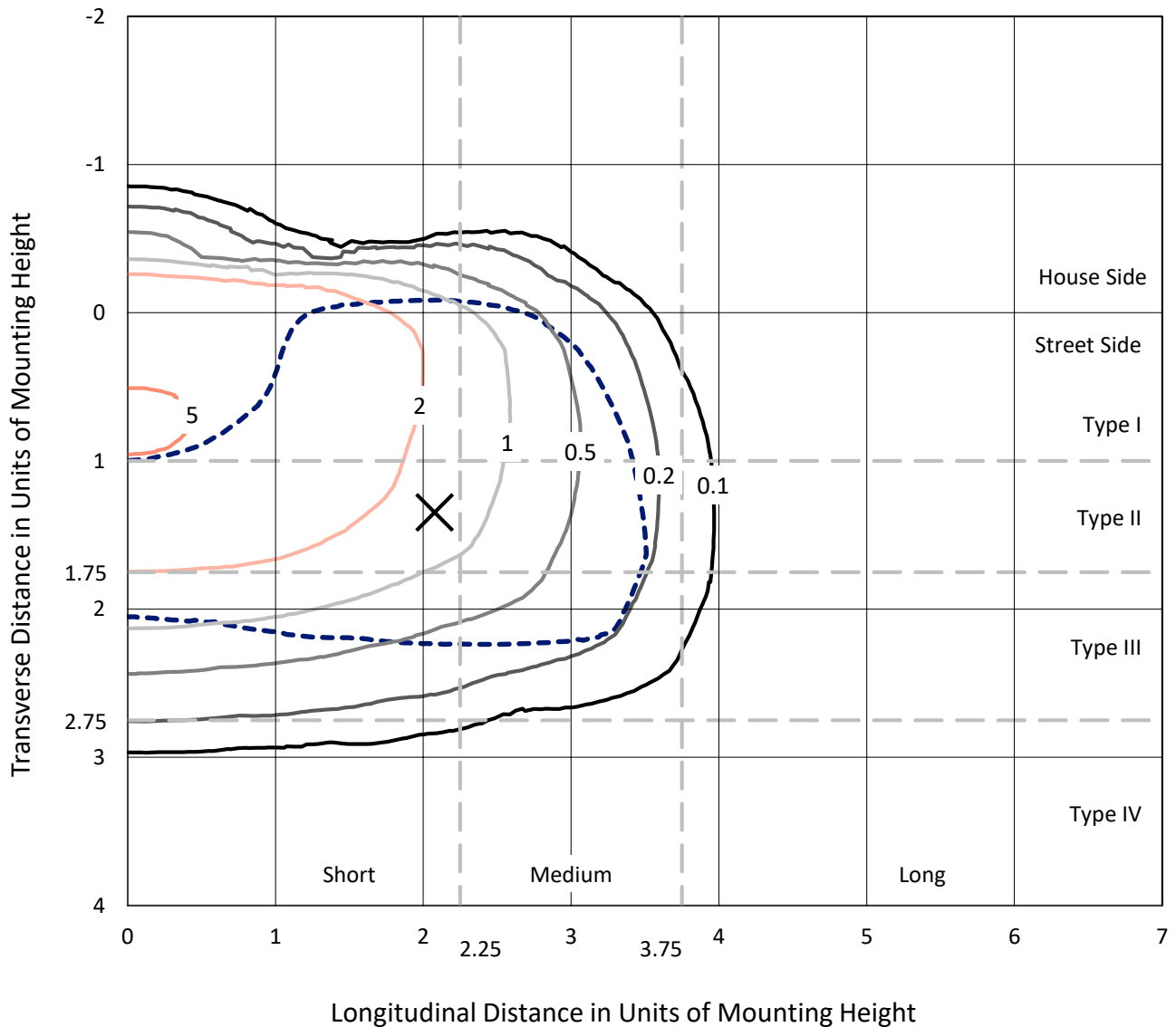
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

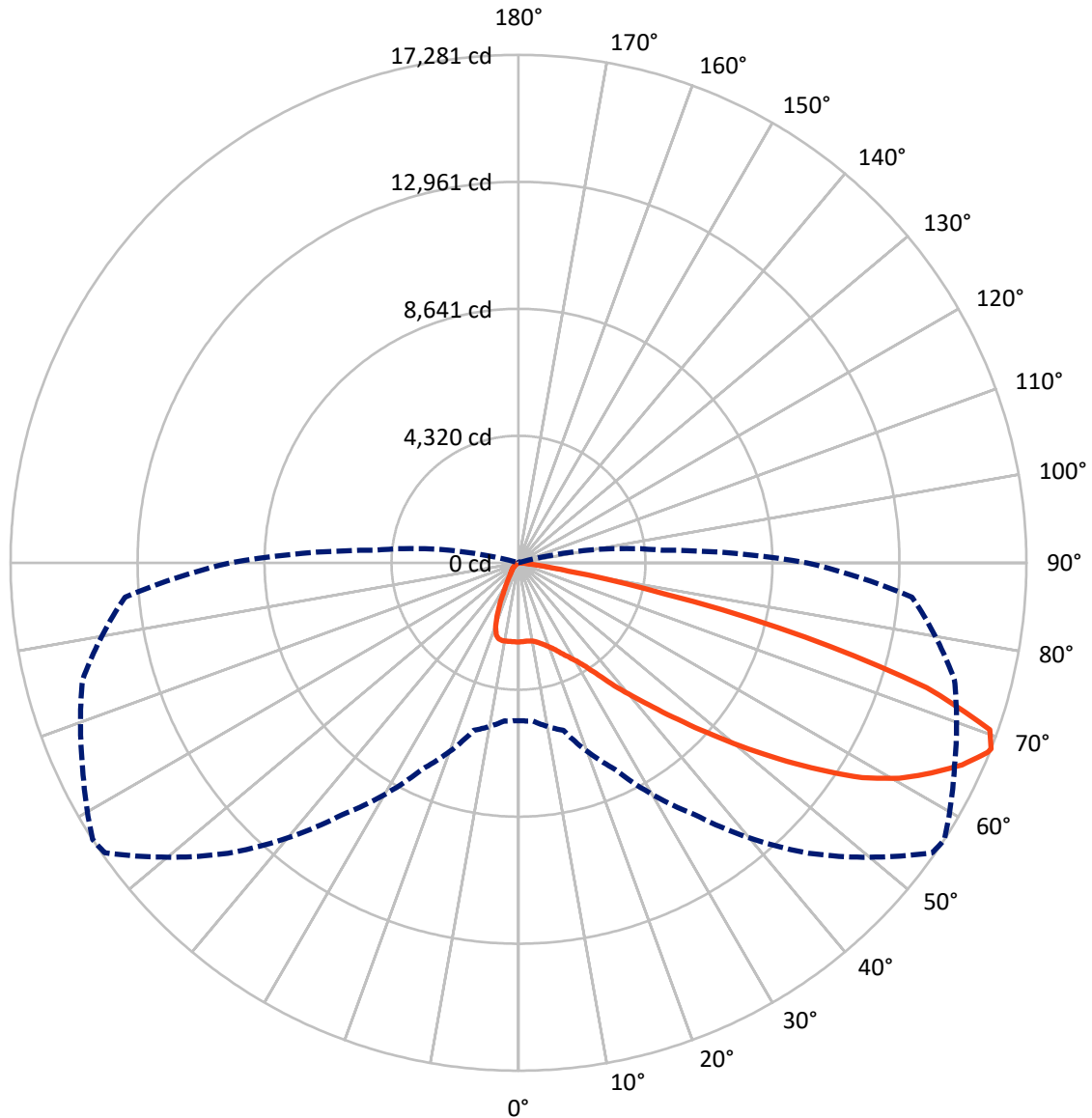
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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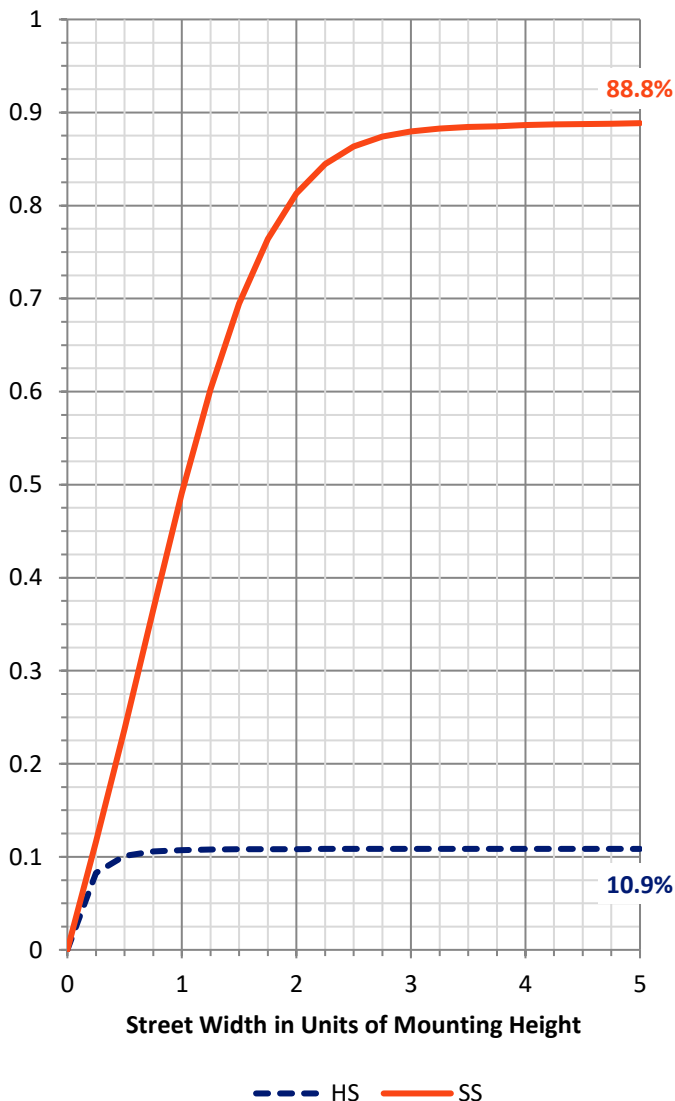
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2485.0	0.0	2485.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	20177.0	0.0	20177.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	22662.0	0.0	22662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	1.1
10°-20°	698.3	3.1
20°-30°	1204.7	5.3
30°-40°	2079.3	9.2
40°-50°	3556.6	15.7
50°-60°	5690.2	25.1
60°-70°	6574.5	29.0
70°-80°	2512.2	11.1
80°-90°	94.2	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°	22662.0	100.0
0°-180°	22662.0	100.0

Coefficient of Utilization



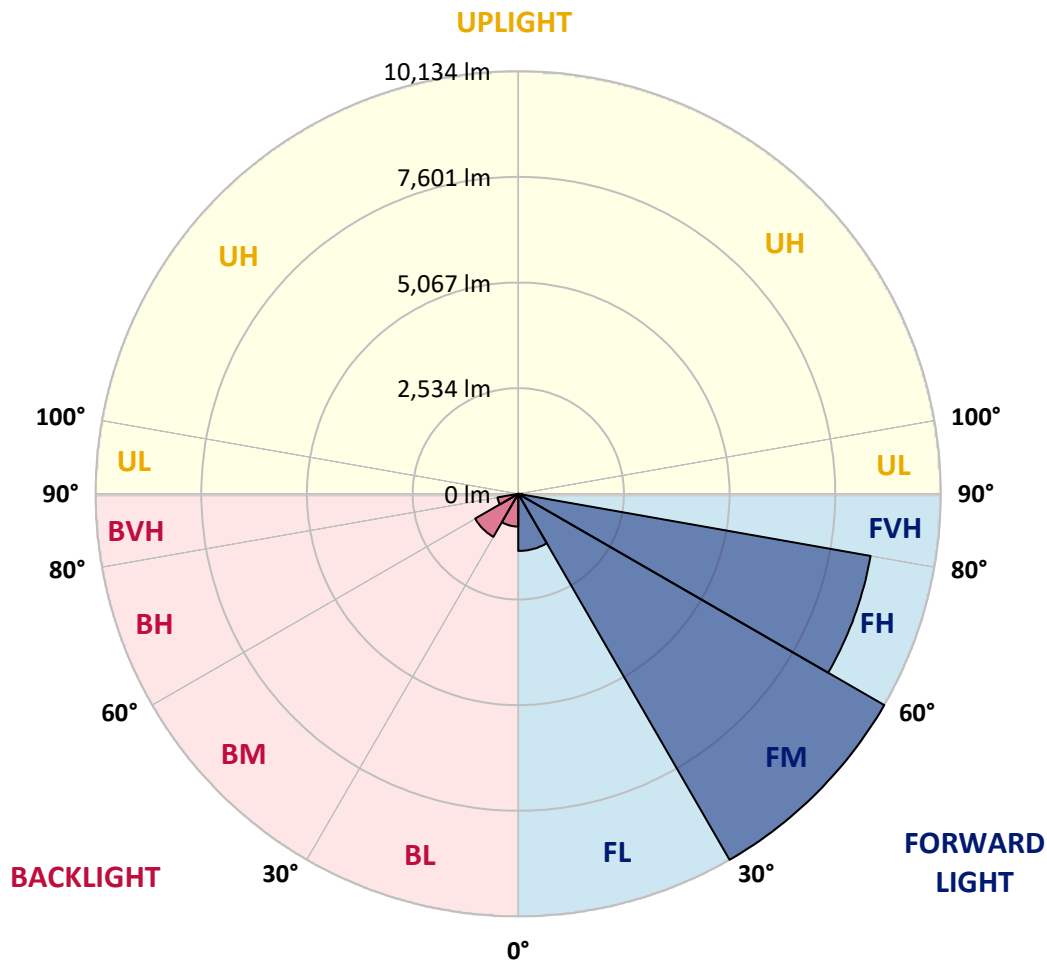
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.7	6.0			
FM (30°-60°)	10134.3	44.7			
FH (60°-80°)	8580.6	37.9			G4/12000
FVH (80°-90°)	92.5	0.4			G1/100
BL (0°-30°)	785.3	3.5	B2/1000		
BM (30°-60°)	1191.9	5.3	B2/2500		
BH (60°-80°)	506.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.7	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°	57°	65°	75°	85°
0°	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8
2.5°	2629.6	2641.4	2650.0	2655.3	2661.8	2675.7	2680.0	2686.4	2689.6	2689.6	2697.1
5°	2525.7	2538.5	2556.8	2571.8	2601.8	2640.3	2668.2	2678.9	2698.2	2715.3	2725.0
7.5°	2429.2	2444.2	2465.7	2501.0	2552.5	2614.6	2672.5	2687.5	2725.0	2761.4	2779.6
10°	2367.1	2378.9	2406.7	2457.1	2524.6	2611.4	2692.8	2711.1	2775.4	2836.4	2870.7
12.5°	2345.7	2356.4	2385.3	2442.1	2525.7	2627.5	2740.0	2766.8	2861.1	2950.0	2998.2
15°	2376.7	2378.9	2409.9	2463.5	2546.0	2667.1	2818.2	2850.4	2969.3	3085.0	3145.0
17.5°	2496.7	2487.1	2503.2	2526.8	2592.1	2719.6	2900.7	2948.9	3107.5	3243.6	3300.4
20°	2796.8	2796.8	2760.4	2696.1	2697.1	2801.1	3012.2	3066.8	3260.8	3418.3	3469.7
22.5°	3310.1	3300.4	3227.6	3070.0	2925.4	2941.4	3148.3	3219.0	3445.1	3613.3	3630.5
25°	3927.3	3915.5	3803.0	3581.2	3330.4	3168.6	3332.6	3414.0	3664.8	3813.7	3778.3
27.5°	4580.9	4571.3	4459.9	4184.5	3827.6	3530.8	3552.2	3629.4	3888.7	4035.5	3923.0
30°	5214.2	5217.5	5107.1	4824.2	4420.2	3992.7	3830.8	3875.9	4106.2	4255.2	4094.5
32.5°	5816.5	5820.7	5725.4	5409.3	5032.1	4529.5	4216.6	4204.8	4359.1	4505.9	4321.6
35°	6353.3	6364.0	6298.7	6053.3	5653.6	5127.4	4717.0	4689.2	4718.1	4884.2	4669.9
37.5°	6870.9	6877.3	6828.0	6621.2	6286.9	5784.3	5349.3	5309.6	5247.5	5375.0	5129.6
40°	7437.7	7421.7	7364.9	7177.3	6890.2	6509.8	6028.6	5960.0	5851.8	5965.4	5733.9
42.5°	7964.9	7946.7	7956.4	7744.2	7502.0	7255.6	6820.5	6702.6	6639.4	6770.1	6475.5
45°	8624.0	8614.3	8646.5	8462.1	8266.1	8087.1	7728.1	7599.5	7571.7	7724.9	7372.4
47.5°	9274.4	9298.0	9397.6	9319.4	9240.1	9082.6	8689.3	8631.5	8648.6	8834.0	8318.6
50°	9816.6	9844.5	10117.7	10207.7	10322.4	10230.2	9835.9	9800.5	9868.0	10035.2	9336.5
52.5°	10208.8	10265.6	10605.3	11020.0	11437.9	11500.0	11106.8	11074.6	11165.7	11191.4	10123.1
55°	10481.0	10531.3	10916.0	11674.7	12525.5	12793.4	12549.1	12424.8	12407.7	12153.7	10950.3
57.5°	10529.2	10523.8	11076.8	12098.0	13378.5	14069.6	13915.3	13793.2	13441.7	13043.1	11898.7
60°	10257.0	10288.1	10930.0	12244.8	13914.3	15035.1	15046.9	14888.3	14340.8	13907.8	12818.1
62.5°	9419.1	9545.5	10193.8	11860.1	13907.8	15424.1	15876.3	15755.2	15100.5	14616.1	13750.3
65°	8060.3	8105.3	8723.6	10542.1	12968.1	15261.2	16623.2	16578.2	15785.2	15304.1	14229.3
67.5°	5886.1	5788.6	6438.0	8301.4	10979.3	14311.8	17159.0	17215.8	16313.5	15445.5	13719.2
68°	5371.8	5400.7	5906.5	7747.4	10458.5	13976.4	17194.3	17281.1	16366.0	15353.4	13440.6
70°	3201.8	3257.6	3708.7	5334.3	7956.4	12078.7	16812.9	17011.1	16053.1	14402.9	11625.4
72.5°	817.6	884.0	1310.5	2387.4	4544.5	8510.4	14192.9	14528.3	13937.8	11684.3	7848.1
75°	336.5	353.6	468.3	786.5	1693.1	3834.1	9354.8	10072.7	9662.3	6995.2	3546.9
77.5°	232.5	244.3	301.1	436.1	733.0	1299.8	4586.3	5104.9	4599.2	2387.4	773.7
80°	167.2	176.8	215.4	290.4	421.1	464.0	1494.8	1728.4	1372.7	524.0	191.8
82.5°	99.7	107.2	160.7	206.8	256.1	221.8	371.8	422.2	397.6	260.4	85.7
85°	49.3	57.9	108.2	147.9	138.2	93.2	113.6	126.4	156.4	158.6	46.1
87.5°	3.2	6.4	63.2	88.9	38.6	21.4	33.2	40.7	55.7	78.2	19.3
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°	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8
2.5°	2700.3	2701.4	2693.9	2690.7	2692.8	2680.0	2674.6	2676.8	2676.8	2680.0	2674.6
5°	2727.1	2727.1	2714.3	2697.1	2687.5	2662.8	2646.8	2642.5	2639.3	2637.1	2632.8
7.5°	2785.0	2778.6	2756.1	2718.6	2686.4	2632.8	2592.1	2570.7	2560.0	2555.7	2552.5
10°	2878.2	2866.4	2828.9	2759.3	2685.3	2590.0	2501.0	2437.8	2385.3	2363.9	2351.0
12.5°	3003.6	2986.5	2923.2	2807.5	2677.8	2502.1	2309.2	2123.8	1951.3	1880.6	1845.2
15°	3148.3	3123.6	3024.0	2848.2	2633.9	2303.9	1884.9	1560.2	1321.2	1231.2	1192.7
17.5°	3295.1	3262.9	3111.8	2873.9	2502.1	1893.5	1322.3	998.7	839.0	796.2	781.2
20°	3442.9	3395.8	3187.9	2854.6	2204.2	1365.2	872.3	729.7	683.7	670.8	666.5
22.5°	3583.3	3510.4	3256.5	2779.6	1745.6	916.2	690.1	645.1	630.1	622.6	620.4
25°	3705.5	3603.7	3316.5	2548.2	1235.5	692.2	621.5	606.5	587.2	573.3	574.4
27.5°	3820.1	3696.9	3352.9	2166.7	824.0	591.5	575.4	555.1	519.7	499.3	499.3
30°	3958.4	3821.2	3379.7	1667.4	606.5	522.9	510.1	479.0	430.8	404.0	404.0
32.5°	4166.2	4009.8	3362.6	1170.1	502.6	459.7	429.7	386.8	334.3	308.6	307.5
35°	4484.5	4301.3	3240.4	767.2	443.6	399.7	351.5	299.0	252.9	231.5	230.4
37.5°	4913.1	4691.3	2966.1	548.6	397.6	344.0	286.1	228.2	194.0	180.0	179.0
40°	5469.3	5144.6	2573.9	444.7	354.7	290.4	220.7	176.8	153.2	142.5	143.6
42.5°	6136.9	5630.0	2103.5	383.6	312.9	239.0	172.5	139.3	124.3	116.8	114.7
45°	6878.4	6109.0	1610.6	341.8	271.1	192.9	135.0	110.4	98.6	94.3	94.3
47.5°	7693.8	6575.1	1178.7	305.4	226.1	148.9	108.2	90.0	80.4	77.2	76.1
50°	8434.3	6898.7	849.8	266.8	185.4	117.9	87.9	75.0	68.6	64.3	64.3
52.5°	9051.5	7000.5	625.8	225.0	150.0	94.3	72.9	64.3	57.9	54.6	54.6
55°	9594.8	6958.7	465.1	185.4	121.1	77.2	62.2	54.6	49.3	46.1	46.1
57.5°	10115.6	6823.7	347.2	151.1	97.5	62.2	52.5	46.1	40.7	38.6	38.6
60°	10541.0	6598.7	258.2	122.2	78.2	50.4	43.9	37.5	33.2	30.0	30.0
62.5°	10886.0	6350.1	189.7	100.7	62.2	39.6	34.3	31.1	24.6	21.4	21.4
65°	10888.2	5937.5	142.5	83.6	48.2	31.1	25.7	24.6	16.1	12.9	11.8
67.5°	10100.6	5118.9	109.3	71.8	37.5	23.6	19.3	20.4	8.6	5.4	4.3
68°	9814.5	4911.0	102.9	70.7	35.4	22.5	18.2	20.4	7.5	4.3	3.2
70°	8274.6	3906.9	82.5	68.6	31.1	17.1	15.0	20.4	6.4	3.2	2.1
72.5°	5292.5	2267.4	61.1	54.6	23.6	12.9	9.6	18.2	6.4	2.1	1.1
75°	2252.4	702.9	41.8	38.6	13.9	9.6	6.4	11.8	4.3	1.1	0.0
77.5°	474.7	158.6	24.6	23.6	9.6	6.4	4.3	3.2	1.1	0.0	0.0
80°	122.2	46.1	12.9	11.8	5.4	3.2	2.1	0.0	0.0	0.0	0.0
82.5°	38.6	18.2	7.5	5.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	3.2	1.1	0.0	0.0	0.0	0.0	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)