

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: P383402

Luminaire Tested: **GLEON-SA7A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383402
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-SA7A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22376.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

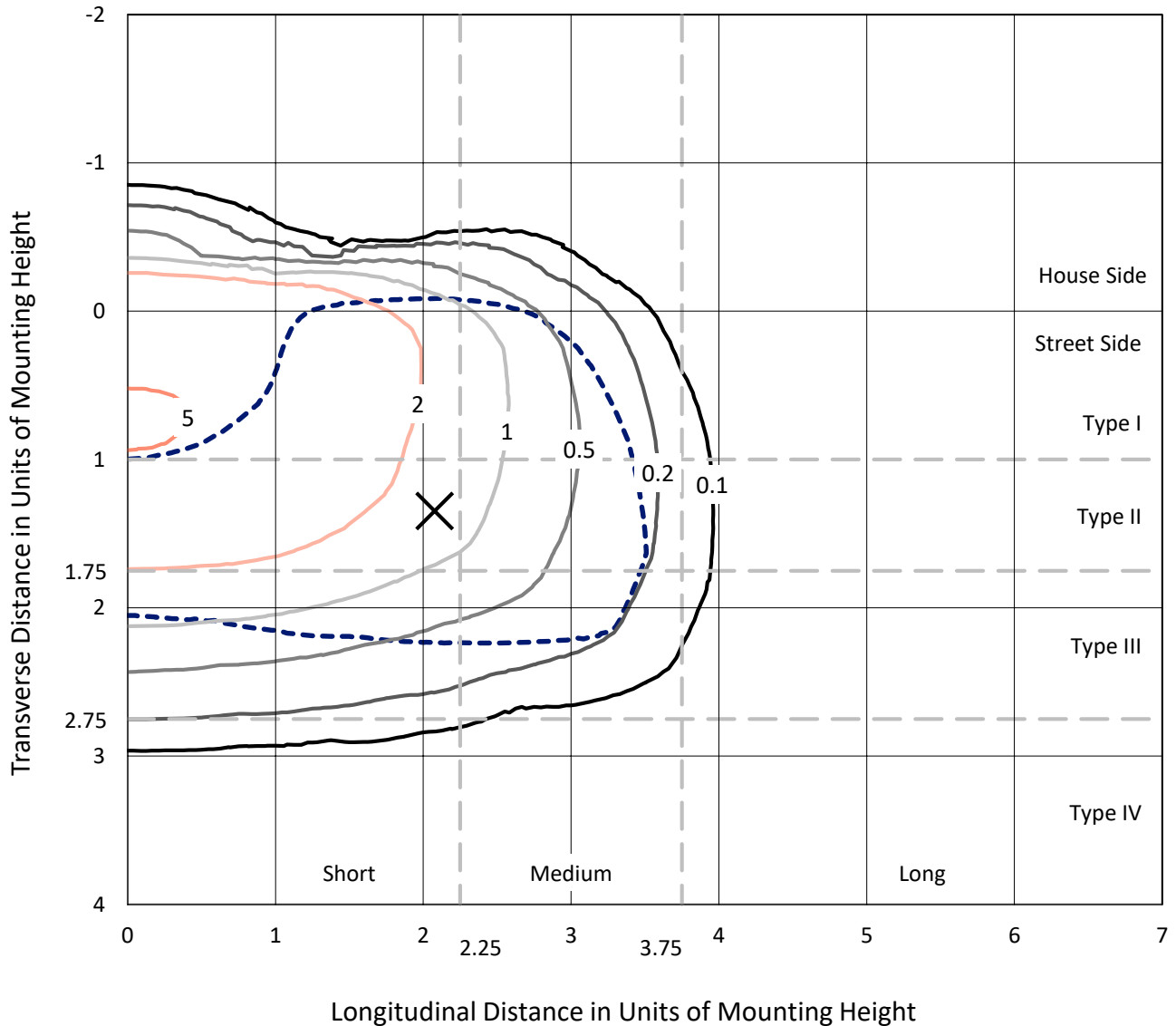
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

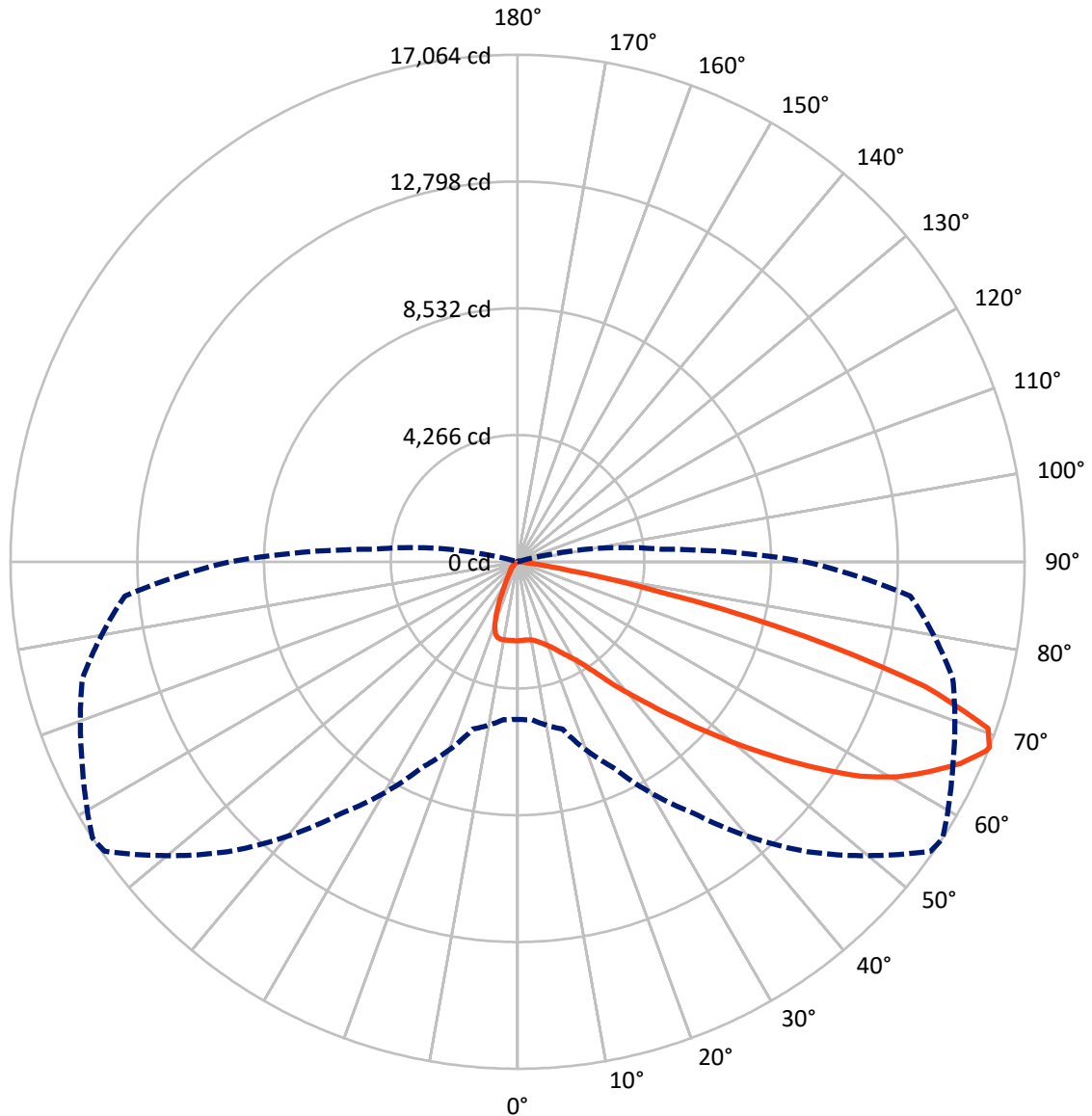
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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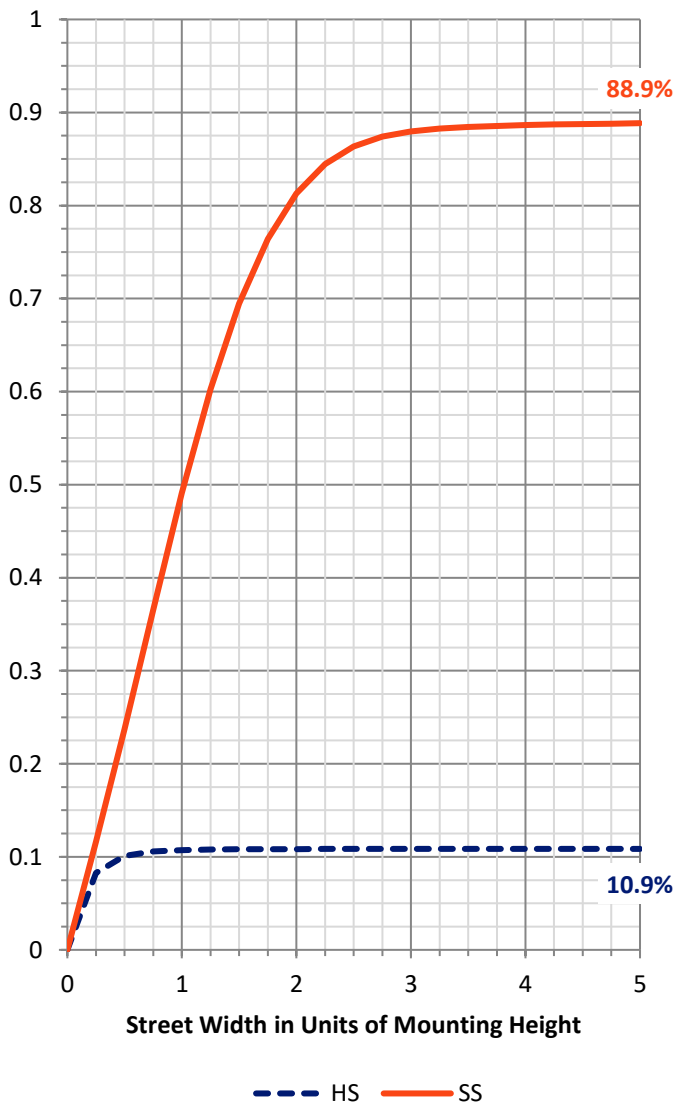
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2453.7	0.0	2453.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19923.0	0.0	19923.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	22376.7	0.0	22376.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	1.1
10°-20°	689.5	3.1
20°-30°	1189.5	5.3
30°-40°	2053.1	9.2
40°-50°	3511.8	15.7
50°-60°	5618.6	25.1
60°-70°	6491.7	29.0
70°-80°	2480.6	11.1
80°-90°	93.0	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°	22376.7	100.0
0°-180°	22376.7	100.0

Coefficient of Utilization



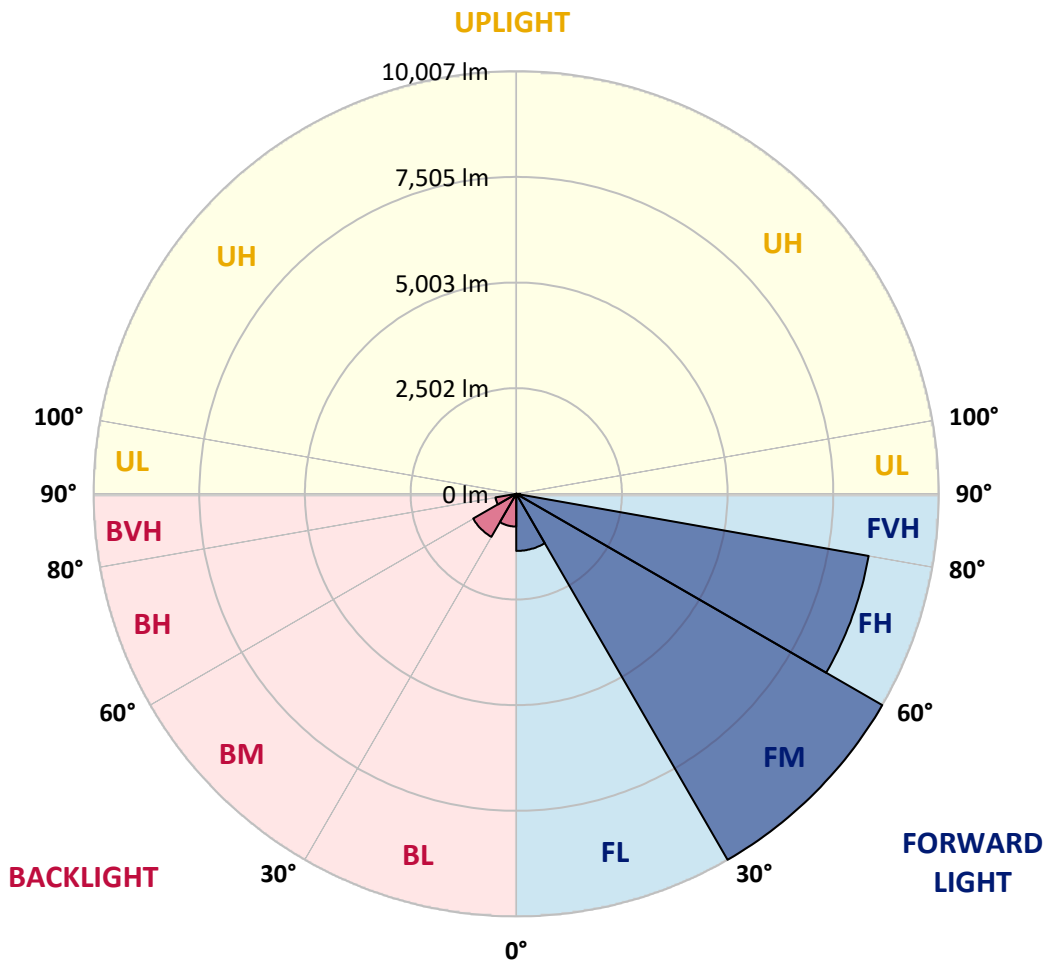
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.5	6.0			
FM (30°-60°)	10006.7	44.7			
FH (60°-80°)	8472.5	37.9			G4/12000
FVH (80°-90°)	91.3	0.4			G1/100
BL (0°-30°)	775.5	3.5	B2/1000		
BM (30°-60°)	1176.9	5.3	B2/2500		
BH (60°-80°)	499.7	2.2	B1/500		G1/500
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°	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9
2.5°	2596.5	2608.1	2616.6	2621.9	2628.3	2642.1	2646.2	2652.6	2655.7	2655.7	2663.2
5°	2493.8	2506.6	2524.6	2539.4	2569.0	2607.1	2634.6	2645.2	2664.2	2681.2	2690.7
7.5°	2398.6	2413.5	2434.6	2469.5	2520.3	2581.7	2638.8	2653.6	2690.7	2726.6	2744.6
10°	2337.3	2348.9	2376.5	2426.1	2492.8	2578.5	2658.9	2676.9	2740.4	2800.7	2834.6
12.5°	2316.1	2326.7	2355.2	2411.3	2493.8	2594.4	2705.5	2731.9	2825.1	2912.9	2960.5
15°	2346.8	2348.9	2379.6	2432.6	2514.0	2633.6	2782.7	2814.5	2932.0	3046.2	3105.4
17.5°	2465.3	2455.7	2471.7	2495.0	2559.5	2685.4	2864.2	2911.8	3068.4	3202.8	3258.8
20°	2761.6	2761.6	2725.6	2662.1	2663.2	2765.8	2974.2	3028.2	3219.7	3375.3	3426.0
22.5°	3268.4	3258.8	3186.9	3031.3	2888.5	2904.4	3108.7	3178.4	3401.7	3567.8	3584.8
25°	3877.8	3866.2	3755.1	3536.1	3288.5	3128.7	3290.6	3371.0	3618.6	3765.7	3730.8
27.5°	4523.3	4513.7	4403.7	4131.8	3779.5	3486.3	3507.6	3583.7	3839.7	3984.7	3873.7
30°	5148.6	5151.7	5042.7	4763.5	4364.6	3942.4	3782.6	3827.1	4054.6	4201.7	4042.9
32.5°	5743.3	5747.5	5653.3	5341.1	4968.7	4472.5	4163.6	4151.9	4304.2	4449.2	4267.2
35°	6273.3	6283.9	6219.4	5977.1	5582.4	5062.9	4657.6	4630.2	4658.7	4822.7	4611.1
37.5°	6784.4	6790.7	6742.1	6537.9	6207.7	5711.5	5281.9	5242.7	5181.4	5307.3	5065.0
40°	7344.1	7328.2	7272.1	7087.0	6803.5	6427.8	5952.8	5885.1	5778.1	5890.3	5661.8
42.5°	7864.7	7846.7	7856.2	7646.7	7407.6	7164.3	6734.6	6618.3	6555.9	6684.9	6394.0
45°	8515.4	8505.9	8537.6	8355.6	8162.0	7985.3	7630.9	7503.9	7476.3	7627.7	7279.6
47.5°	9157.7	9181.0	9279.3	9202.1	9123.8	8968.3	8579.9	8522.8	8539.7	8722.7	8213.8
50°	9693.0	9720.5	9990.4	10079.3	10192.4	10101.4	9712.0	9677.2	9743.8	9908.9	9219.0
52.5°	10080.3	10136.4	10471.8	10881.2	11293.9	11355.3	10966.9	10935.3	11025.1	11050.6	9995.6
55°	10349.0	10398.8	10778.6	11527.7	12367.9	12632.3	12391.1	12268.4	12251.4	12000.7	10812.5
57.5°	10396.6	10391.3	10937.3	11945.7	13210.1	13892.5	13740.1	13619.5	13272.5	12878.9	11748.9
60°	10127.9	10158.6	10792.4	12090.6	13739.1	14845.9	14857.5	14700.9	14160.2	13732.8	12656.7
62.5°	9300.5	9425.3	10065.5	11710.8	13732.8	15230.0	15676.5	15556.8	14910.4	14432.2	13577.2
65°	7958.9	8003.3	8613.8	10409.3	12804.9	15069.1	16414.0	16369.4	15586.5	15111.5	14050.2
67.5°	5812.0	5715.7	6356.9	8196.9	10841.1	14131.7	16943.0	16999.1	16108.1	15251.1	13546.6
68°	5304.1	5332.7	5832.1	7649.9	10326.9	13800.5	16977.8	17063.5	16160.0	15160.1	13271.5
70°	3161.5	3216.5	3662.0	5267.1	7856.2	11926.6	16601.2	16796.9	15851.0	14221.6	11479.1
72.5°	807.3	873.0	1294.0	2357.4	4487.3	8403.2	14014.2	14345.4	13762.4	11537.2	7749.4
75°	332.2	349.1	462.4	776.6	1671.8	3785.8	9237.0	9945.9	9540.6	6907.1	3502.2
77.5°	229.6	241.3	297.3	430.7	723.7	1283.5	4528.5	5040.7	4541.3	2357.4	764.0
80°	165.1	174.6	212.7	286.7	415.8	458.1	1476.0	1706.7	1355.4	517.4	189.4
82.5°	98.4	105.8	158.7	204.2	252.9	219.0	367.1	416.9	392.6	257.1	84.7
85°	48.6	57.1	106.8	146.0	136.5	92.0	112.2	124.8	154.5	156.6	45.5
87.5°	3.2	6.3	62.4	87.8	38.1	21.1	32.8	40.2	55.1	77.2	19.0
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°	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9	2658.9
2.5°	2666.4	2667.4	2660.0	2656.9	2658.9	2646.2	2640.9	2643.1	2643.1	2646.2	2640.9
5°	2692.8	2692.8	2680.1	2663.2	2653.6	2629.3	2613.5	2609.2	2606.0	2604.0	2599.7
7.5°	2749.9	2743.6	2721.3	2684.3	2652.6	2599.7	2559.5	2538.3	2527.8	2523.5	2520.3
10°	2842.0	2830.3	2793.3	2724.5	2651.6	2557.4	2469.5	2407.1	2355.2	2334.1	2321.4
12.5°	2965.8	2948.8	2886.4	2772.2	2644.1	2470.7	2280.1	2097.1	1926.7	1856.9	1822.0
15°	3108.7	3084.3	2985.9	2812.3	2600.8	2274.8	1861.1	1540.6	1304.6	1215.8	1177.7
17.5°	3253.6	3221.9	3072.6	2837.8	2470.7	1869.6	1305.7	986.1	828.5	786.1	771.3
20°	3399.6	3353.0	3147.8	2818.7	2176.5	1347.9	861.3	720.6	675.1	662.3	658.1
22.5°	3538.2	3466.3	3215.5	2744.6	1723.6	904.6	681.4	637.0	622.2	614.7	612.6
25°	3658.8	3558.3	3274.8	2516.1	1220.0	683.5	613.7	598.9	579.8	566.1	567.1
27.5°	3772.0	3650.4	3310.7	2139.4	813.6	584.1	568.2	548.1	513.2	493.1	493.1
30°	3908.5	3773.1	3337.2	1646.3	598.9	516.4	503.7	472.9	425.3	398.9	398.9
32.5°	4113.8	3959.4	3320.2	1155.4	496.2	453.9	424.3	381.9	330.1	304.7	303.7
35°	4428.0	4247.1	3199.6	757.6	438.0	394.7	347.1	295.2	249.7	228.5	227.5
37.5°	4851.3	4632.2	2928.8	541.7	392.6	339.6	282.5	225.3	191.5	177.7	176.7
40°	5400.5	5079.8	2541.5	439.1	350.3	286.7	218.0	174.6	151.3	140.8	141.8
42.5°	6059.6	5559.1	2077.0	378.8	309.0	236.0	170.4	137.6	122.8	115.3	113.2
45°	6791.8	6032.1	1590.2	337.5	267.7	190.4	133.3	109.0	97.3	93.2	93.2
47.5°	7597.0	6492.3	1163.9	301.5	223.3	147.1	106.8	88.9	79.4	76.2	75.1
50°	8328.1	6811.8	839.0	263.4	183.0	116.4	86.7	74.1	67.7	63.4	63.4
52.5°	8937.5	6912.4	617.9	222.2	148.1	93.2	71.9	63.4	57.1	53.9	53.9
55°	9474.0	6871.1	459.2	183.0	119.5	76.2	61.4	53.9	48.6	45.5	45.5
57.5°	9988.2	6737.8	342.8	149.2	96.3	61.4	51.9	45.5	40.2	38.1	38.1
60°	10408.3	6515.6	255.0	120.6	77.2	49.7	43.4	37.1	32.8	29.6	29.6
62.5°	10748.9	6270.2	187.2	99.5	61.4	39.1	33.8	30.6	24.3	21.1	21.1
65°	10751.1	5862.8	140.8	82.5	47.6	30.6	25.4	24.3	15.8	12.7	11.6
67.5°	9973.4	5054.4	108.0	70.9	37.1	23.3	19.0	20.1	8.5	5.3	4.2
68°	9690.9	4849.2	101.5	69.9	34.9	22.3	18.0	20.1	7.5	4.2	3.2
70°	8170.4	3857.7	81.5	67.7	30.6	17.0	14.8	20.1	6.3	3.2	2.1
72.5°	5225.8	2238.9	60.3	53.9	23.3	12.7	9.5	18.0	6.3	2.1	1.0
75°	2224.1	694.1	41.3	38.1	13.8	9.5	6.3	11.6	4.2	1.0	0.0
77.5°	468.8	156.6	24.3	23.3	9.5	6.3	4.2	3.2	1.0	0.0	0.0
80°	120.6	45.5	12.7	11.6	5.3	3.2	2.1	0.0	0.0	0.0	0.0
82.5°	38.1	18.0	7.5	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	10.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.2	1.0	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)