

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: P383626

Luminaire Tested: **GLEON-SA9A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383626
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-SA9A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 28281.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

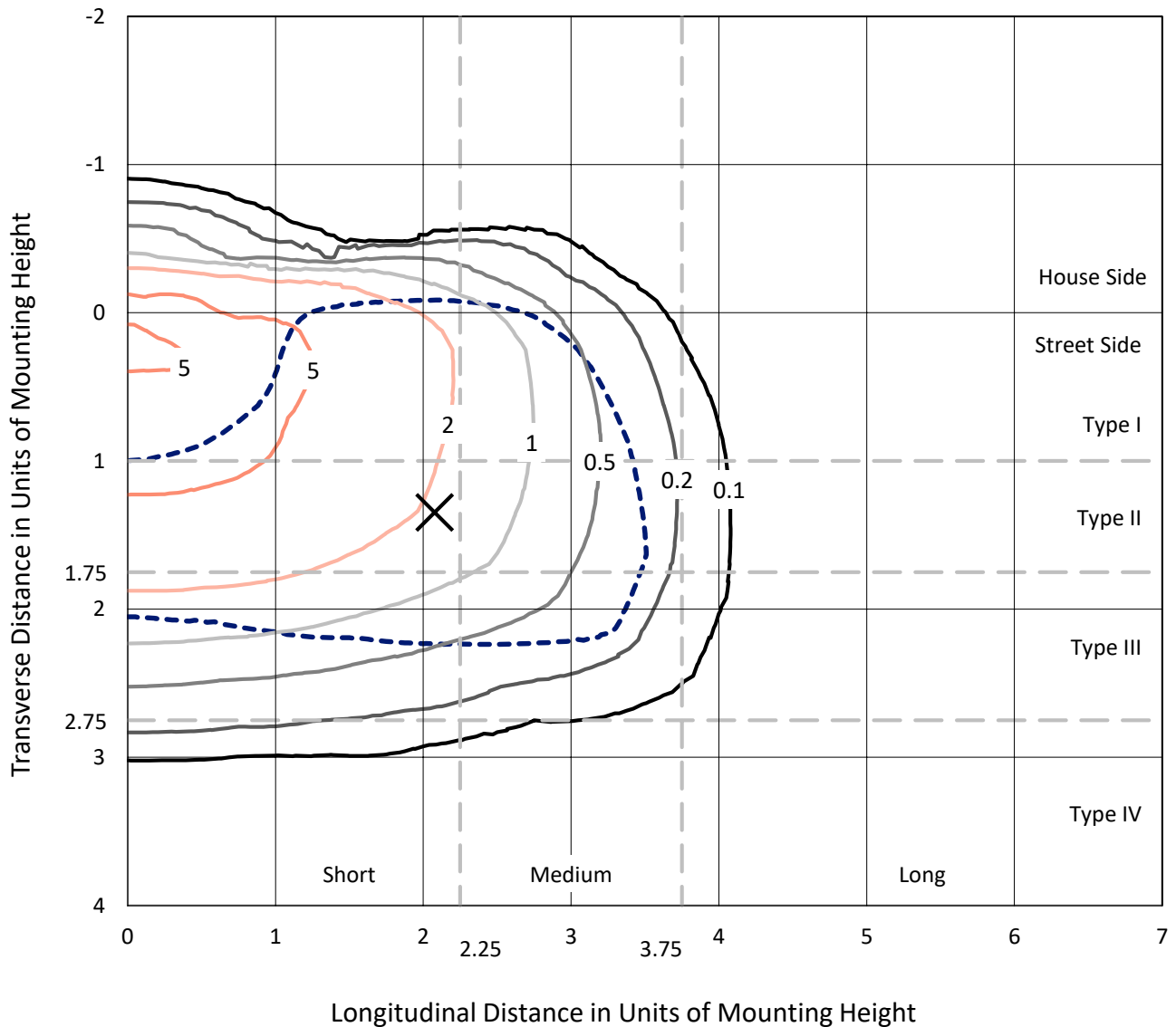
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

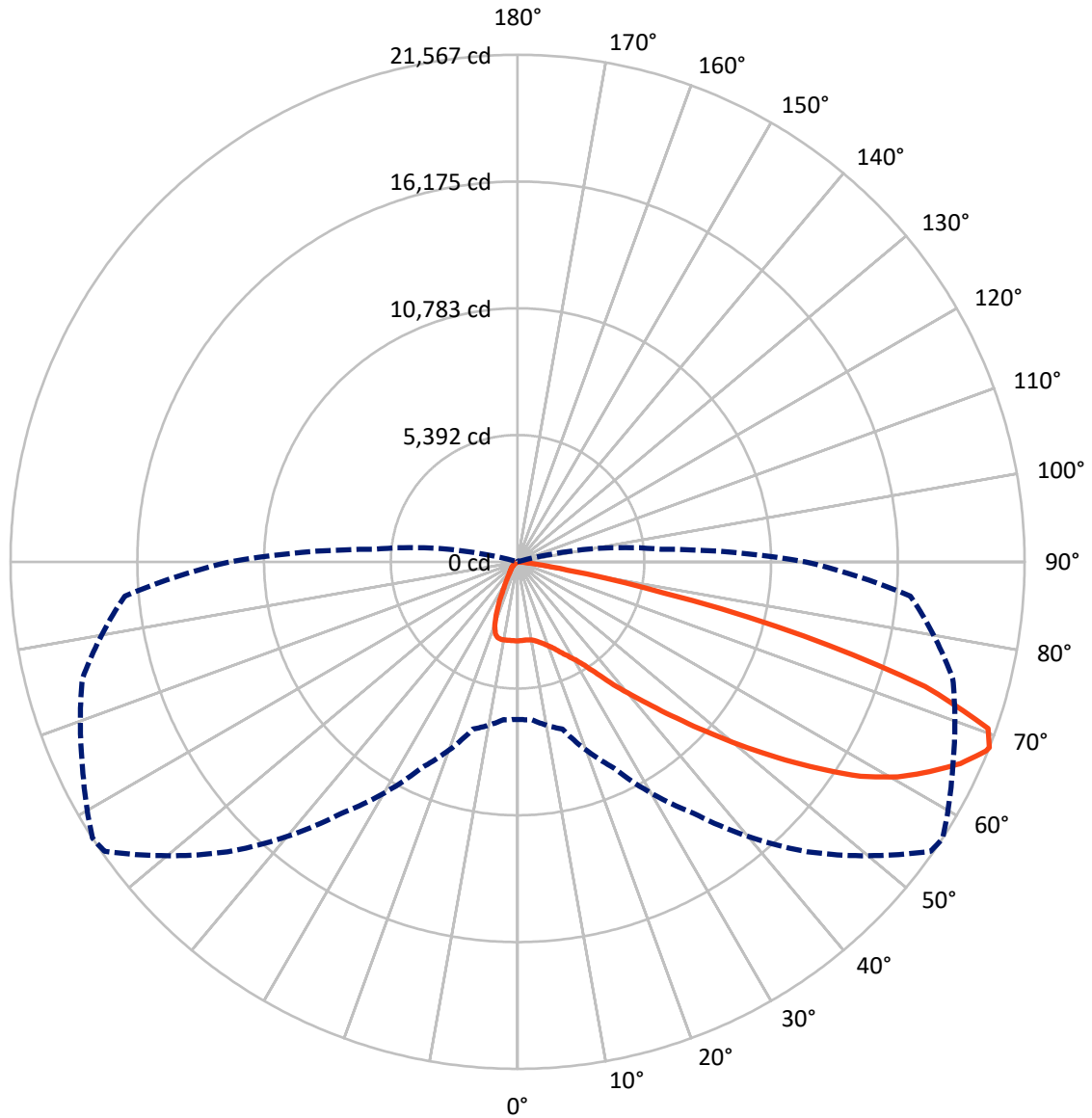
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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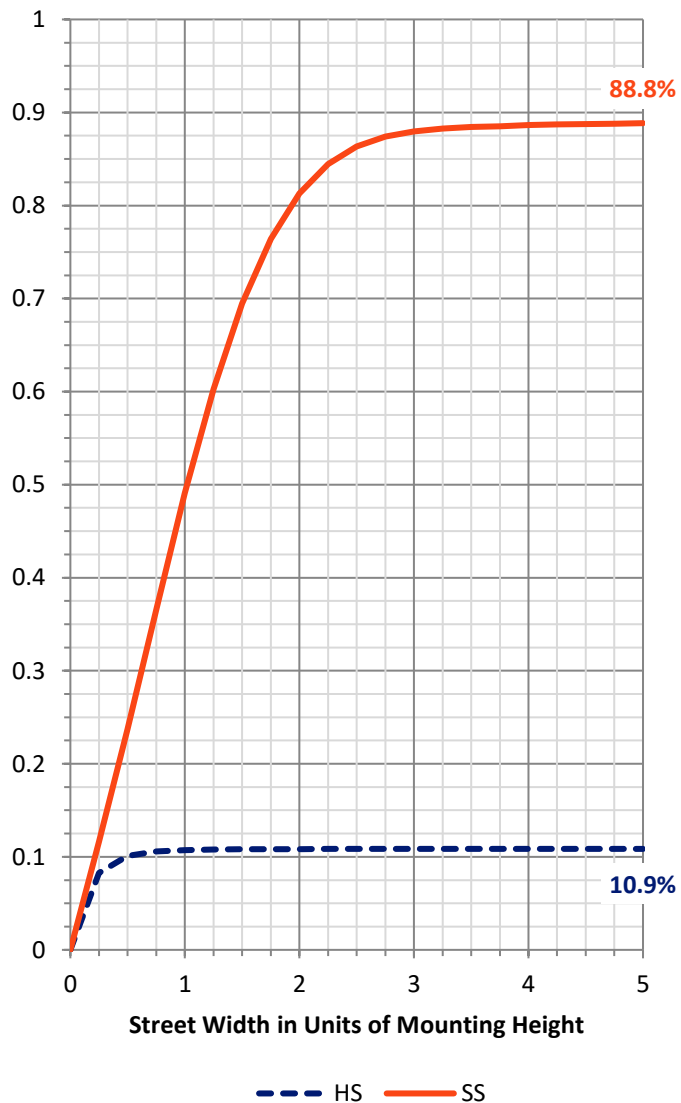
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3101.3	0.0	3101.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	25180.5	0.0	25180.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	28281.8	0.0	28281.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.1
10°-20°	871.5	3.1
20°-30°	1503.4	5.3
30°-40°	2594.9	9.2
40°-50°	4438.6	15.7
50°-60°	7101.3	25.1
60°-70°	8204.8	29.0
70°-80°	3135.2	11.1
80°-90°	117.5	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°	28281.8	100.0
0°-180°	28281.8	100.0

Coefficient of Utilization



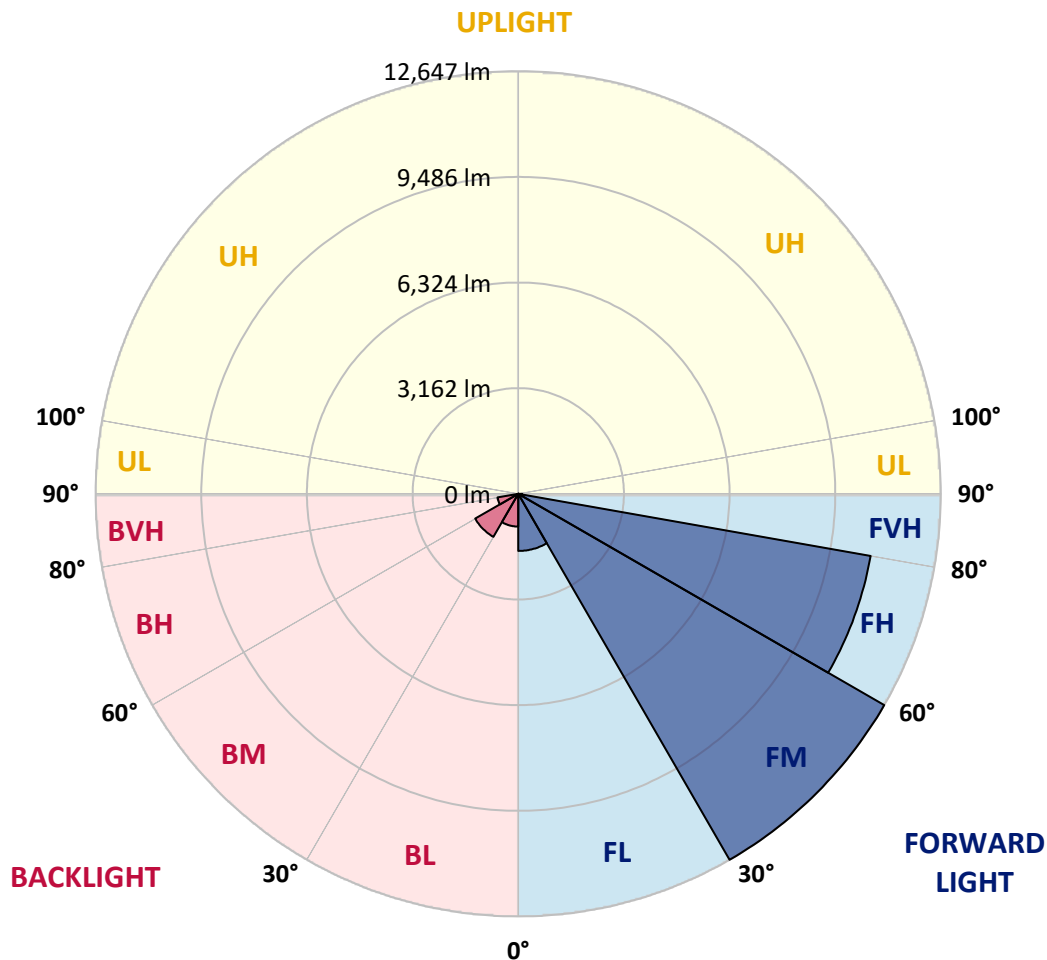
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.4	6.0			
FM (30°-60°)	12647.4	44.7			
FH (60°-80°)	10708.4	37.9			G4/12000
FVH (80°-90°)	115.4	0.4			G2/225
BL (0°-30°)	980.1	3.5	B2/1000		
BM (30°-60°)	1487.4	5.3	B2/2500		
BH (60°-80°)	631.6	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	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°	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7
2.5°	3281.7	3296.5	3307.1	3313.8	3321.8	3339.2	3344.5	3352.6	3356.6	3356.6	3366.0
5°	3152.0	3168.0	3190.8	3209.5	3246.9	3295.1	3329.9	3343.2	3367.3	3388.7	3400.7
7.5°	3031.6	3050.4	3077.1	3121.2	3185.4	3263.0	3335.2	3353.9	3400.7	3446.2	3468.9
10°	2954.1	2968.7	3003.6	3066.4	3150.7	3259.0	3360.7	3383.4	3463.6	3539.8	3582.6
12.5°	2927.3	2940.7	2976.9	3047.7	3152.0	3279.0	3419.4	3452.9	3570.6	3681.6	3741.7
15°	2966.1	2968.7	3007.6	3074.5	3177.4	3328.5	3517.1	3557.2	3705.6	3850.1	3925.0
17.5°	3115.9	3103.8	3123.9	3153.4	3234.9	3394.1	3620.1	3680.3	3878.1	4047.9	4118.8
20°	3490.3	3490.3	3444.9	3364.7	3366.0	3495.7	3759.2	3827.4	4069.4	4265.9	4330.2
22.5°	4130.9	4118.8	4027.9	3831.4	3650.8	3670.9	3929.0	4017.2	4299.4	4509.3	4530.8
25°	4901.2	4886.4	4746.0	4469.2	4156.3	3954.4	4159.0	4260.6	4573.5	4759.5	4715.3
27.5°	5716.9	5704.9	5565.8	5222.2	4776.8	4406.4	4433.1	4529.5	4853.1	5036.2	4895.8
30°	6507.2	6511.3	6373.6	6020.5	5516.3	4982.8	4780.8	4837.0	5124.5	5310.4	5109.8
32.5°	7258.8	7264.2	7145.2	6750.6	6279.9	5652.7	5262.2	5247.5	5440.1	5623.3	5393.3
35°	7928.8	7942.2	7860.6	7554.4	7055.5	6399.0	5886.7	5852.0	5888.1	6095.4	5827.9
37.5°	8574.7	8582.7	8521.2	8263.1	7845.9	7218.7	6675.7	6626.3	6548.7	6707.9	6401.6
40°	9282.1	9262.1	9191.2	8957.2	8598.8	8124.0	7523.6	7438.0	7303.0	7444.7	7155.9
42.5°	9940.1	9917.3	9929.5	9664.6	9362.4	9054.8	8511.9	8364.7	8285.8	8449.0	8081.3
45°	10762.5	10750.5	10790.7	10560.6	10315.9	10092.6	9644.6	9484.1	9449.3	9640.6	9200.6
47.5°	11574.3	11603.7	11728.1	11630.5	11531.5	11334.9	10844.1	10772.0	10793.3	11024.7	10381.4
50°	12251.0	12285.7	12626.8	12739.1	12882.2	12767.1	12275.0	12230.9	12315.2	12523.7	11651.9
52.5°	12740.4	12811.3	13235.2	13752.7	14274.3	14351.9	13861.1	13820.9	13934.6	13966.7	12633.5
55°	13080.0	13142.9	13623.0	14569.9	15631.6	15966.0	15661.1	15505.9	15484.6	15167.6	13665.8
57.5°	13140.2	13133.6	13823.6	15098.1	16696.1	17558.6	17366.1	17213.7	16775.0	16277.6	14849.3
60°	12800.6	12839.3	13640.4	15281.3	17364.8	18763.6	18778.3	18580.4	17897.0	17356.8	15996.7
62.5°	11754.8	11912.6	12721.7	14801.2	17356.8	19249.0	19813.4	19662.3	18845.1	18240.7	17160.1
65°	10059.1	10115.3	10886.9	13156.3	16184.0	19045.8	20745.5	20689.3	19699.7	19099.2	17757.9
67.5°	7345.7	7224.1	8034.5	10360.0	13701.9	17860.9	21414.1	21484.9	20359.0	19275.8	17121.4
68°	6703.9	6739.9	7371.1	9668.6	13052.0	17442.3	21458.2	21566.5	20424.5	19160.7	16773.7
70°	3995.9	4065.4	4628.4	6657.0	9929.5	15074.0	20982.2	21229.6	20034.0	17974.6	14508.3
72.5°	1020.3	1103.2	1635.5	2979.5	5671.4	10620.8	17712.4	18131.1	17394.2	14581.9	9794.4
75°	419.9	441.3	584.4	981.6	2112.9	4784.8	11674.6	12570.6	12058.4	8729.9	4426.4
77.5°	290.2	304.9	375.8	544.3	914.7	1622.1	5723.6	6370.9	5739.6	2979.5	965.5
80°	208.6	220.7	268.8	362.4	525.6	579.0	1865.5	2157.1	1713.1	653.9	239.4
82.5°	124.4	133.8	200.6	258.1	319.6	276.9	464.0	526.9	496.1	324.9	106.9
85°	61.5	72.2	135.1	184.5	172.5	116.4	141.8	157.8	195.3	198.0	57.5
87.5°	4.0	8.0	78.9	111.0	48.2	26.7	41.5	50.9	69.5	97.6	24.0
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°	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7	3360.7
2.5°	3370.0	3371.4	3362.0	3357.9	3360.7	3344.5	3337.9	3340.5	3340.5	3344.5	3337.9
5°	3403.4	3403.4	3387.4	3366.0	3353.9	3323.2	3303.1	3297.8	3293.8	3291.1	3285.8
7.5°	3475.6	3467.6	3439.6	3392.7	3352.6	3285.8	3234.9	3208.2	3194.8	3189.4	3185.4
10°	3592.0	3577.2	3530.5	3443.6	3351.2	3232.3	3121.2	3042.3	2976.9	2950.1	2934.0
12.5°	3748.5	3727.0	3648.1	3503.7	3341.9	3122.5	2881.8	2650.5	2435.3	2346.9	2302.8
15°	3929.0	3898.2	3773.9	3554.5	3287.1	2875.2	2352.3	1947.1	1648.8	1536.6	1488.4
17.5°	4112.2	4072.1	3883.5	3586.6	3122.5	2363.0	1650.2	1246.3	1047.1	993.6	974.9
20°	4296.8	4237.9	3978.5	3562.5	2750.9	1703.7	1088.5	910.7	853.2	837.2	831.8
22.5°	4471.9	4381.0	4064.1	3468.9	2178.4	1143.4	861.2	805.0	786.3	777.0	774.3
25°	4624.4	4497.3	4139.0	3180.1	1541.9	863.9	775.6	756.9	732.8	715.4	716.8
27.5°	4767.5	4613.7	4184.4	2704.0	1028.3	738.2	718.1	692.7	648.5	623.2	623.2
30°	4940.0	4768.8	4217.9	2080.8	756.9	652.6	636.5	597.8	537.6	504.2	504.2
32.5°	5199.4	5004.2	4196.4	1460.3	627.2	573.7	536.3	482.7	417.2	385.1	383.8
35°	5596.6	5367.9	4043.9	957.5	553.6	498.8	438.7	373.1	315.6	288.9	287.5
37.5°	6131.5	5854.7	3701.6	684.7	496.1	429.3	357.1	284.9	242.0	224.7	223.3
40°	6825.5	6420.3	3212.2	555.0	442.7	362.4	275.5	220.7	191.2	177.8	179.2
42.5°	7658.7	7026.1	2625.1	478.7	390.5	298.2	215.3	173.8	155.1	145.8	143.1
45°	8584.1	7623.9	2010.0	426.6	338.3	240.7	168.5	137.8	123.1	117.7	117.7
47.5°	9601.7	8205.6	1471.0	381.1	282.2	185.8	135.1	112.3	100.3	96.3	94.9
50°	10525.8	8609.5	1060.5	333.0	231.4	147.1	109.6	93.6	85.6	80.2	80.2
52.5°	11296.1	8736.5	781.0	280.9	187.2	117.7	90.9	80.2	72.2	68.2	68.2
55°	11974.1	8684.4	580.4	231.4	151.1	96.3	77.6	68.2	61.5	57.5	57.5
57.5°	12624.1	8515.9	433.3	188.5	121.7	77.6	65.5	57.5	50.9	48.2	48.2
60°	13154.9	8235.1	322.3	152.5	97.6	62.9	54.9	46.8	41.5	37.4	37.4
62.5°	13585.6	7924.8	236.7	125.7	77.6	49.5	42.8	38.8	30.7	26.7	26.7
65°	13588.3	7410.0	177.8	104.3	60.2	38.8	32.1	30.7	20.0	16.0	14.7
67.5°	12605.3	6388.3	136.4	89.6	46.8	29.4	24.0	25.4	10.7	6.7	5.3
68°	12248.3	6128.8	128.4	88.2	44.2	28.0	22.7	25.4	9.3	5.3	4.0
70°	10326.6	4875.8	102.9	85.6	38.8	21.4	18.7	25.4	8.0	4.0	2.7
72.5°	6604.9	2829.8	76.2	68.2	29.4	16.0	12.0	22.7	8.0	2.7	1.3
75°	2811.0	877.2	52.2	48.2	17.4	12.0	8.0	14.7	5.3	1.3	0.0
77.5°	592.5	198.0	30.7	29.4	12.0	8.0	5.3	4.0	1.3	0.0	0.0
80°	152.5	57.5	16.0	14.7	6.7	4.0	2.7	0.0	0.0	0.0	0.0
82.5°	48.2	22.7	9.3	6.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.0	13.4	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.0	1.3	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)