

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: P383542

Luminaire Tested: **GLEON-SA8B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383542
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-SA8B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 31090.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

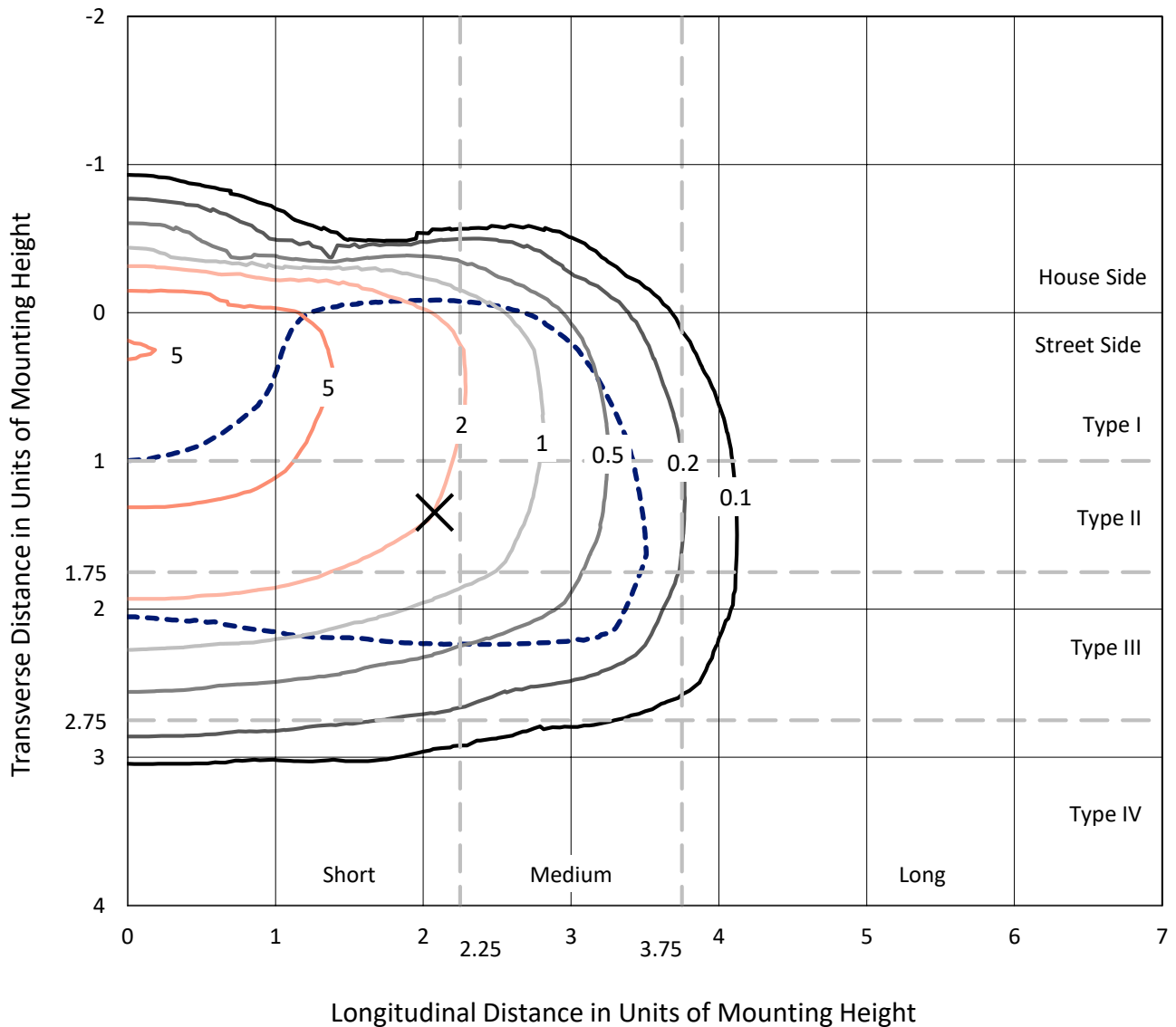
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

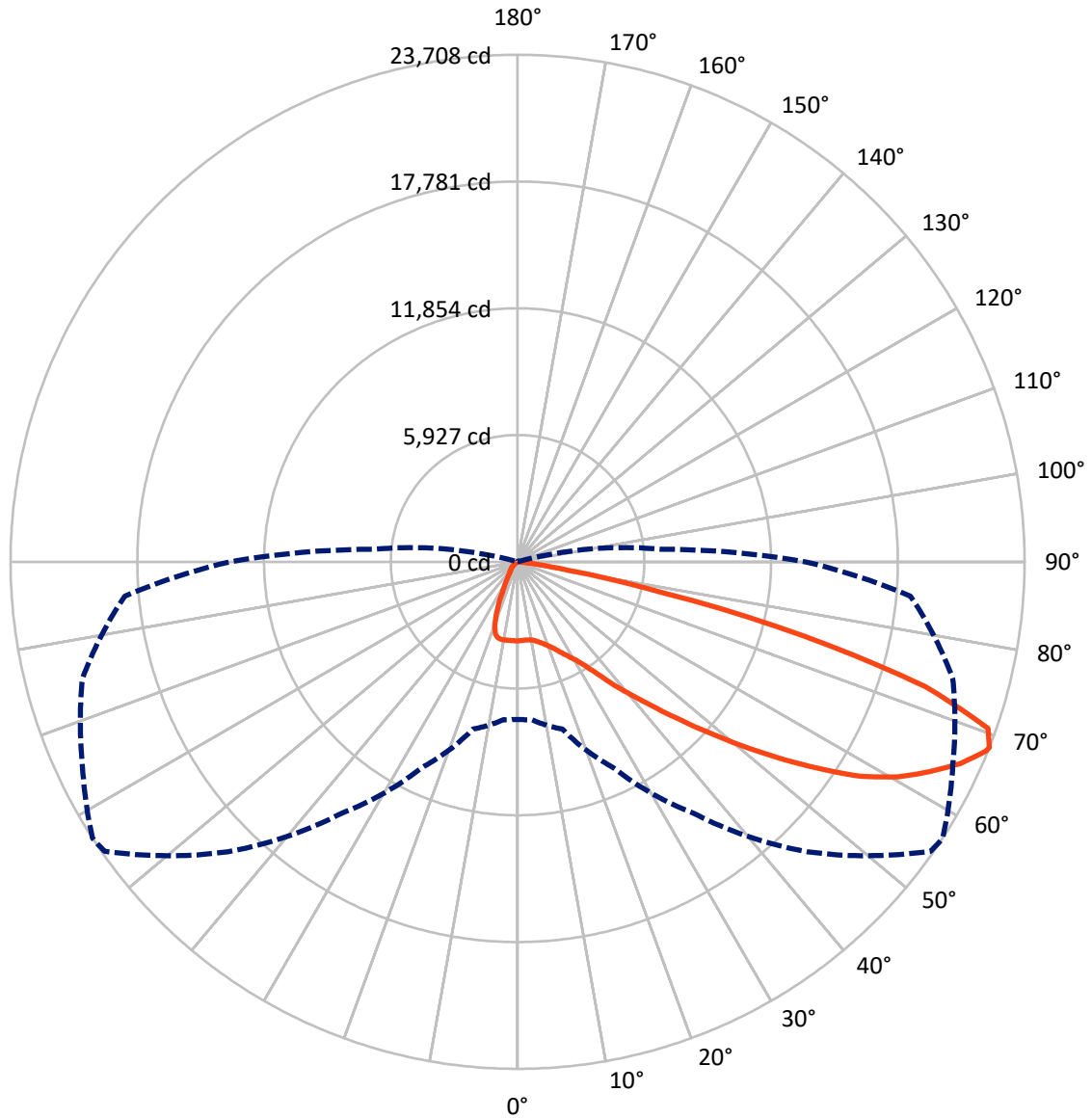
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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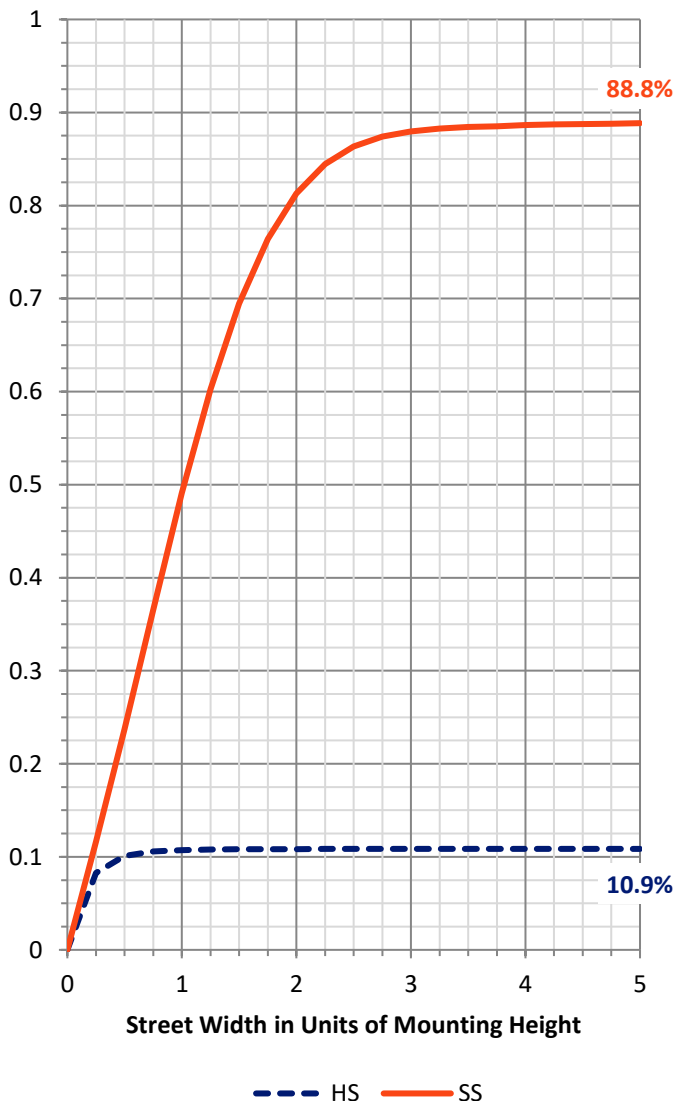
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.3	0.0	3409.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27681.2	0.0	27681.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	31090.4	0.0	31090.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.1
10°-20°	958.1	3.1
20°-30°	1652.8	5.3
30°-40°	2852.6	9.2
40°-50°	4879.4	15.7
50°-60°	7806.5	25.1
60°-70°	9019.6	29.0
70°-80°	3446.5	11.1
80°-90°	129.2	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°	31090.4	100.0
0°-180°	31090.4	100.0

Coefficient of Utilization



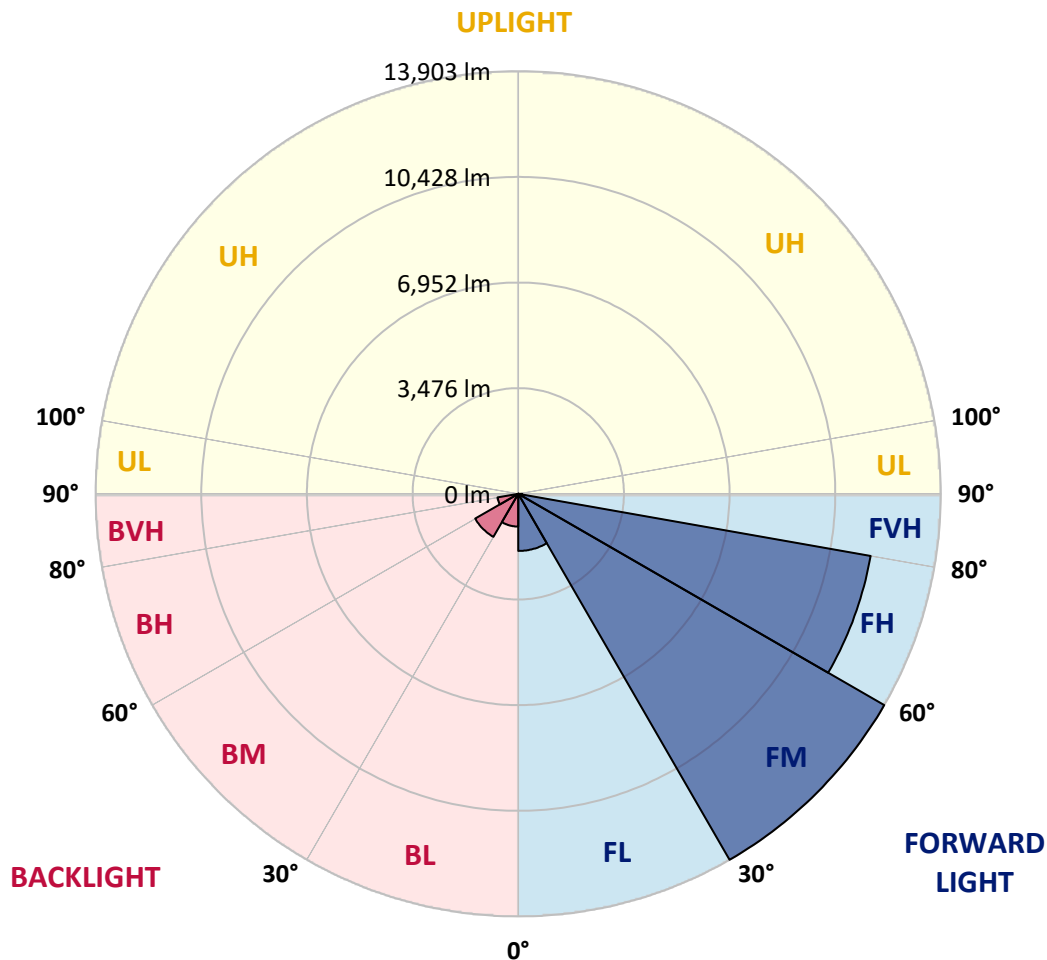
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.1	6.0			
FM (30°-60°)	13903.4	44.7			
FH (60°-80°)	11771.8	37.9			G4/12000
FVH (80°-90°)	126.8	0.4			G2/225
BL (0°-30°)	1077.4	3.5	B3/2500		
BM (30°-60°)	1635.1	5.3	B2/2500		
BH (60°-80°)	694.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3
2.5°	3607.6	3623.8	3635.6	3642.9	3651.8	3670.9	3676.7	3685.6	3690.0	3690.0	3700.2
5°	3465.0	3482.7	3507.6	3528.2	3569.4	3622.3	3660.5	3675.2	3701.7	3725.3	3738.5
7.5°	3332.7	3353.3	3382.7	3431.2	3501.8	3587.0	3666.4	3687.0	3738.5	3788.4	3813.5
10°	3247.5	3263.6	3301.9	3370.9	3463.6	3582.6	3694.3	3719.4	3807.5	3891.4	3938.4
12.5°	3218.0	3232.7	3272.4	3350.3	3465.0	3604.7	3759.1	3795.8	3925.2	4047.2	4113.3
15°	3260.7	3263.6	3306.2	3379.7	3492.9	3659.1	3866.4	3910.5	4073.7	4232.4	4314.7
17.5°	3425.3	3412.1	3434.2	3466.5	3556.2	3731.1	3979.6	4045.7	4263.3	4450.0	4527.9
20°	3837.0	3837.0	3787.0	3698.8	3700.2	3842.8	4132.4	4207.4	4473.5	4689.6	4760.2
22.5°	4541.1	4527.9	4427.9	4211.8	4013.4	4035.5	4319.1	4416.2	4726.4	4957.1	4980.7
25°	5387.9	5371.8	5217.4	4913.1	4569.1	4347.1	4572.0	4683.7	5027.7	5232.0	5183.6
27.5°	6284.7	6271.5	6118.6	5740.8	5251.2	4844.0	4873.4	4979.2	5335.0	5536.4	5382.0
30°	7153.5	7157.9	7006.4	6618.4	6064.2	5477.6	5255.6	5317.4	5633.4	5837.7	5617.2
32.5°	7979.7	7985.6	7854.7	7421.1	6903.6	6214.1	5784.8	5768.7	5980.3	6181.7	5928.9
35°	8716.2	8730.9	8641.2	8304.6	7756.3	7034.4	6471.4	6433.2	6472.9	6700.7	6406.7
37.5°	9426.2	9435.1	9367.5	9083.7	8625.1	7935.6	7338.7	7284.3	7199.1	7374.0	7037.4
40°	10204.0	10181.9	10104.0	9846.7	9452.7	8930.8	8270.7	8176.7	8028.2	8184.0	7866.5
42.5°	10927.2	10902.3	10915.5	10624.4	10292.2	9954.1	9357.2	9195.5	9108.8	9288.1	8883.8
45°	11831.4	11818.2	11862.2	11609.4	11340.4	11094.8	10602.3	10426.0	10387.7	10597.9	10114.3
47.5°	12723.7	12756.1	12892.8	12785.5	12676.7	12460.6	11921.0	11841.6	11865.2	12119.5	11412.4
50°	13467.6	13505.8	13880.7	14004.1	14161.5	14035.1	13494.0	13445.5	13538.2	13767.4	12809.0
52.5°	14005.6	14083.5	14549.6	15118.5	15691.8	15777.1	15237.6	15193.4	15318.5	15353.7	13888.1
55°	14379.0	14448.1	14975.9	16016.7	17184.0	17551.5	17216.3	17045.8	17022.3	16673.9	15023.0
57.5°	14445.2	14437.9	15196.4	16597.4	18354.2	19302.4	19090.7	18923.1	18440.9	17894.0	16324.0
60°	14071.8	14114.4	14995.0	16798.8	19089.3	20627.0	20643.1	20425.6	19674.4	19080.4	17585.3
62.5°	12922.1	13095.6	13985.0	16271.1	19080.4	21160.6	21781.0	21614.9	20716.6	20052.1	18864.3
65°	11058.1	11119.8	11968.1	14462.8	17791.2	20937.2	22805.7	22743.9	21656.1	20996.0	19521.4
67.5°	8075.2	7941.4	8832.4	11388.8	15062.7	19634.6	23540.7	23618.6	22380.8	21190.0	18821.6
68°	7369.6	7409.3	8103.2	10628.8	14348.2	19174.5	23589.2	23708.3	22452.8	21063.6	18439.4
70°	4392.6	4469.1	5088.0	7318.1	10915.5	16570.9	23065.9	23337.8	22023.6	19759.6	15949.1
72.5°	1121.7	1212.9	1797.9	3275.4	6234.7	11675.6	19471.5	19931.6	19121.6	16030.0	10767.0
75°	461.6	485.1	642.4	1079.0	2322.7	5260.0	12833.9	13818.9	13255.9	9596.8	4866.0
77.5°	319.1	335.2	413.1	598.3	1005.5	1783.3	6292.0	7003.6	6309.7	3275.4	1061.4
80°	229.3	242.6	295.5	398.4	577.7	636.5	2050.8	2371.3	1883.2	718.9	263.2
82.5°	136.8	147.0	220.5	283.7	351.4	304.3	510.1	579.2	545.4	357.2	117.7
85°	67.6	79.4	148.5	202.9	189.7	127.9	155.8	173.5	214.6	217.6	63.3
87.5°	4.4	8.8	86.7	122.0	52.9	29.4	45.6	55.9	76.5	107.3	26.5
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°	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3	3694.3
2.5°	3704.7	3706.2	3695.8	3691.4	3694.3	3676.7	3669.4	3672.3	3672.3	3676.7	3669.4
5°	3741.4	3741.4	3723.8	3700.2	3687.0	3653.2	3631.2	3625.3	3620.8	3617.9	3612.1
7.5°	3820.7	3812.0	3781.1	3729.6	3685.6	3612.1	3556.2	3526.7	3512.0	3506.2	3501.8
10°	3948.6	3932.5	3881.1	3785.5	3684.1	3553.2	3431.2	3344.4	3272.4	3243.0	3225.4
12.5°	4120.7	4097.1	4010.4	3851.7	3673.7	3432.7	3168.1	2913.7	2677.1	2580.0	2531.5
15°	4319.1	4285.3	4148.6	3907.6	3613.5	3160.7	2585.9	2140.5	1812.6	1689.2	1636.3
17.5°	4520.5	4476.5	4269.2	3942.8	3432.7	2597.6	1814.1	1370.1	1151.1	1092.2	1071.7
20°	4723.4	4658.8	4373.5	3916.3	3024.0	1872.9	1196.7	1001.1	937.9	920.3	914.4
22.5°	4916.1	4816.0	4467.6	3813.5	2394.8	1256.9	946.7	885.0	864.4	854.1	851.2
25°	5083.6	4943.9	4550.0	3495.9	1695.0	949.7	852.6	832.1	805.6	786.5	788.0
27.5°	5240.9	5071.8	4600.0	2972.6	1130.5	811.5	789.5	761.5	713.0	685.1	685.1
30°	5430.5	5242.4	4636.7	2287.5	832.1	717.4	699.8	657.1	591.0	554.3	554.3
32.5°	5715.8	5501.1	4613.2	1605.3	689.4	630.7	589.5	530.7	458.7	423.4	421.9
35°	6152.4	5901.0	4445.6	1052.6	608.6	548.3	482.2	410.2	346.9	317.6	316.1
37.5°	6740.4	6436.1	4069.3	752.7	545.4	471.9	392.6	313.1	266.0	247.0	245.5
40°	7503.4	7058.0	3531.2	610.1	486.6	398.4	302.8	242.6	210.3	195.5	197.0
42.5°	8419.2	7723.9	2885.8	526.3	429.3	327.8	236.7	191.2	170.6	160.2	157.3
45°	9436.6	8381.0	2209.5	468.9	372.0	264.7	185.2	151.4	135.3	129.4	129.4
47.5°	10555.3	9020.5	1617.1	419.0	310.2	204.4	148.5	123.5	110.3	105.8	104.3
50°	11571.1	9464.5	1165.8	366.1	254.3	161.7	120.5	102.9	94.1	88.2	88.2
52.5°	12417.9	9604.2	858.5	308.7	205.8	129.4	100.0	88.2	79.4	75.0	75.0
55°	13163.2	9546.8	638.0	254.3	166.1	105.8	85.2	75.0	67.6	63.3	63.3
57.5°	13877.7	9361.6	476.3	207.3	133.8	85.2	72.0	63.3	55.9	52.9	52.9
60°	14461.3	9052.9	354.3	167.6	107.3	69.1	60.3	51.4	45.6	41.2	41.2
62.5°	14934.8	8711.8	260.2	138.1	85.2	54.4	47.0	42.7	33.8	29.4	29.4
65°	14937.6	8145.8	195.5	114.7	66.1	42.7	35.3	33.8	22.1	17.6	16.2
67.5°	13857.1	7022.7	150.0	98.5	51.4	32.3	26.5	27.9	11.7	7.4	5.9
68°	13464.7	6737.5	141.1	97.1	48.5	30.8	25.0	27.9	10.2	5.9	4.4
70°	11352.1	5359.9	113.2	94.1	42.7	23.6	20.6	27.9	8.8	4.4	3.0
72.5°	7260.9	3110.7	83.8	75.0	32.3	17.6	13.2	25.0	8.8	3.0	1.5
75°	3090.1	964.4	57.3	52.9	19.1	13.2	8.8	16.2	5.9	1.5	0.0
77.5°	651.2	217.6	33.8	32.3	13.2	8.8	5.9	4.4	1.5	0.0	0.0
80°	167.6	63.3	17.6	16.2	7.4	4.4	3.0	0.0	0.0	0.0	0.0
82.5°	52.9	25.0	10.2	7.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	14.7	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	4.4	1.5	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)