

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: P323639

Luminaire Tested: **GLEON-SA5B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17937 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

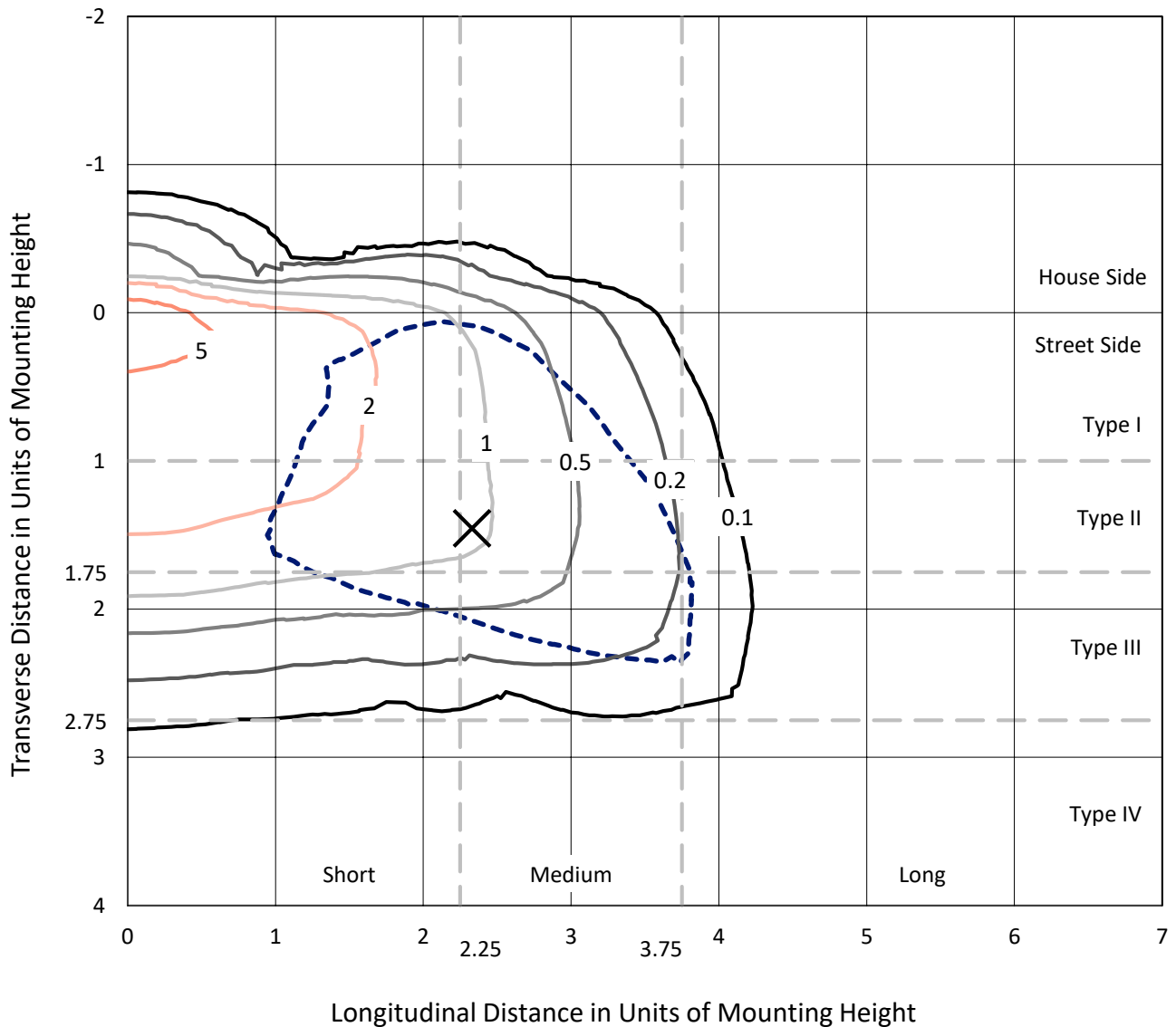
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

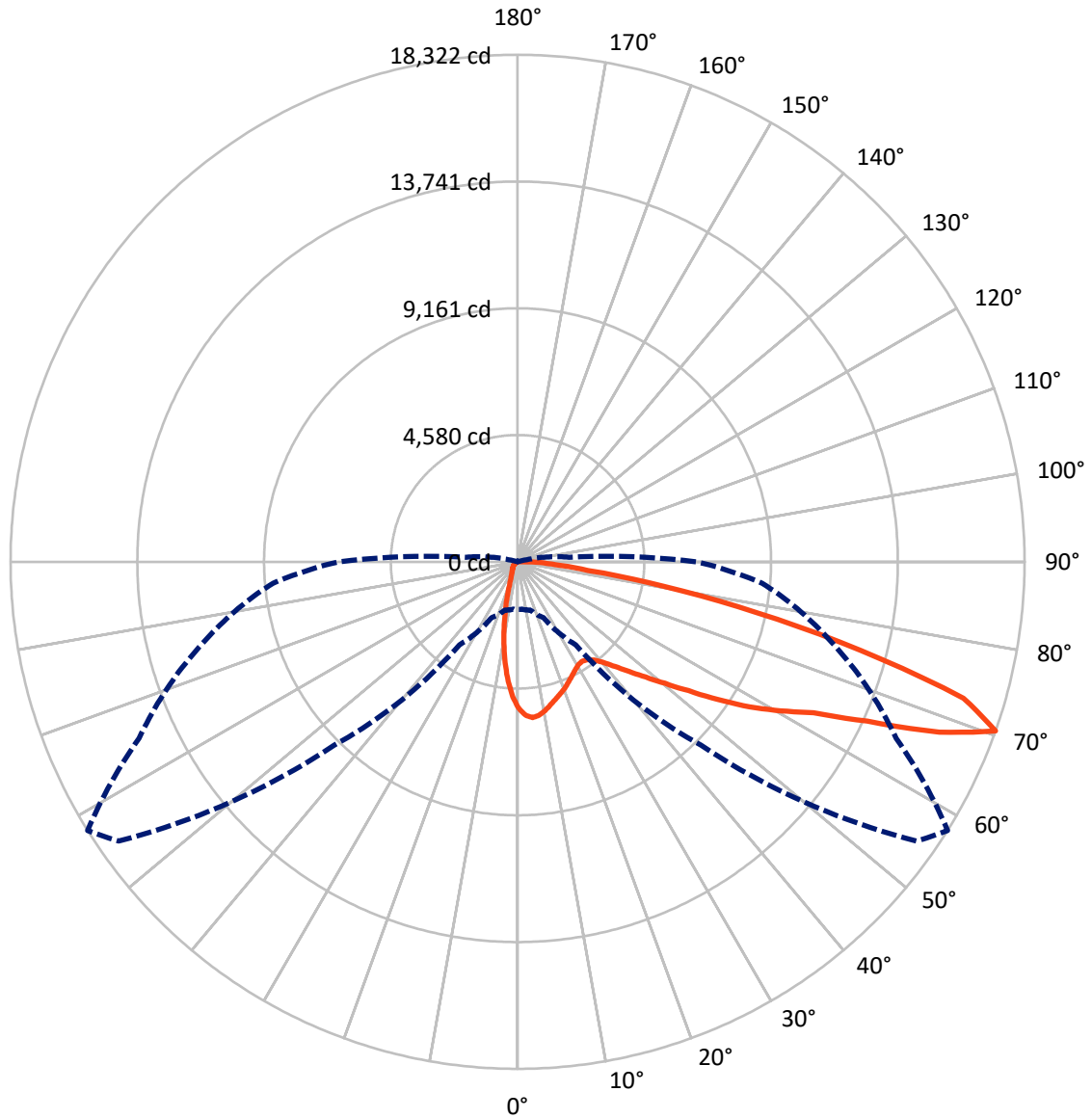
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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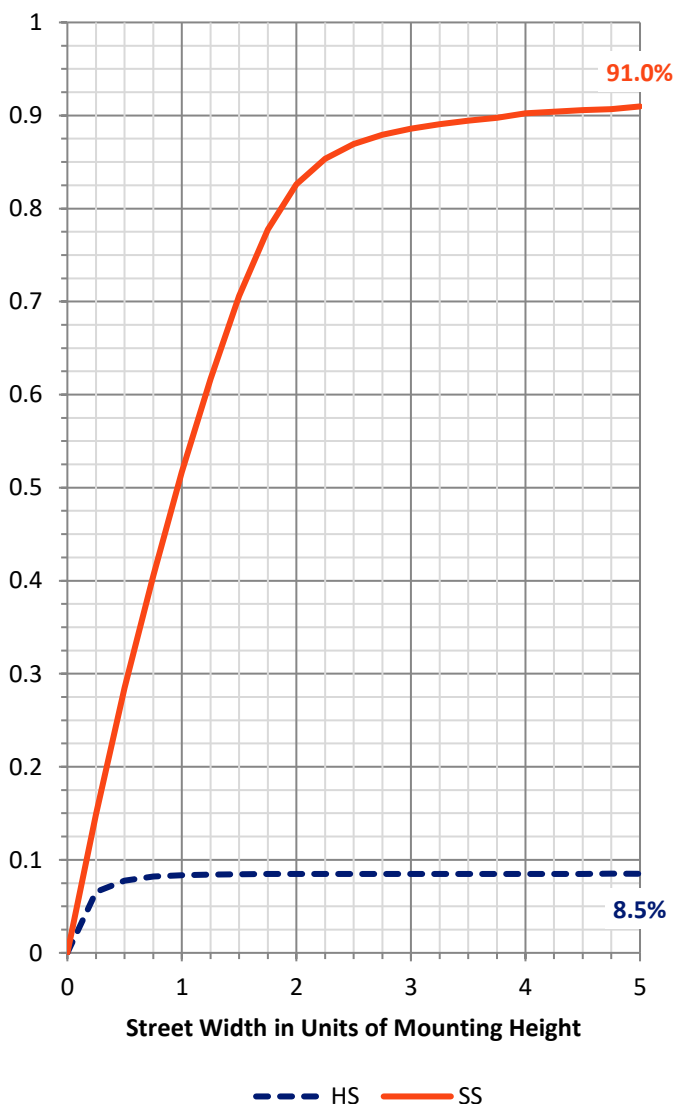
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.0	0.0	1535.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	16402.0	0.0	16402.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	17937.0	0.0	17937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.3	2.4
10°-20°	909.4	5.1
20°-30°	1195.5	6.7
30°-40°	1583.3	8.8
40°-50°	2366.5	13.2
50°-60°	3791.1	21.1
60°-70°	4778.6	26.6
70°-80°	2577.6	14.4
80°-90°	301.7	1.7
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°	17937.0	100.0
0°-180°	17937.0	100.0

Coefficient of Utilization

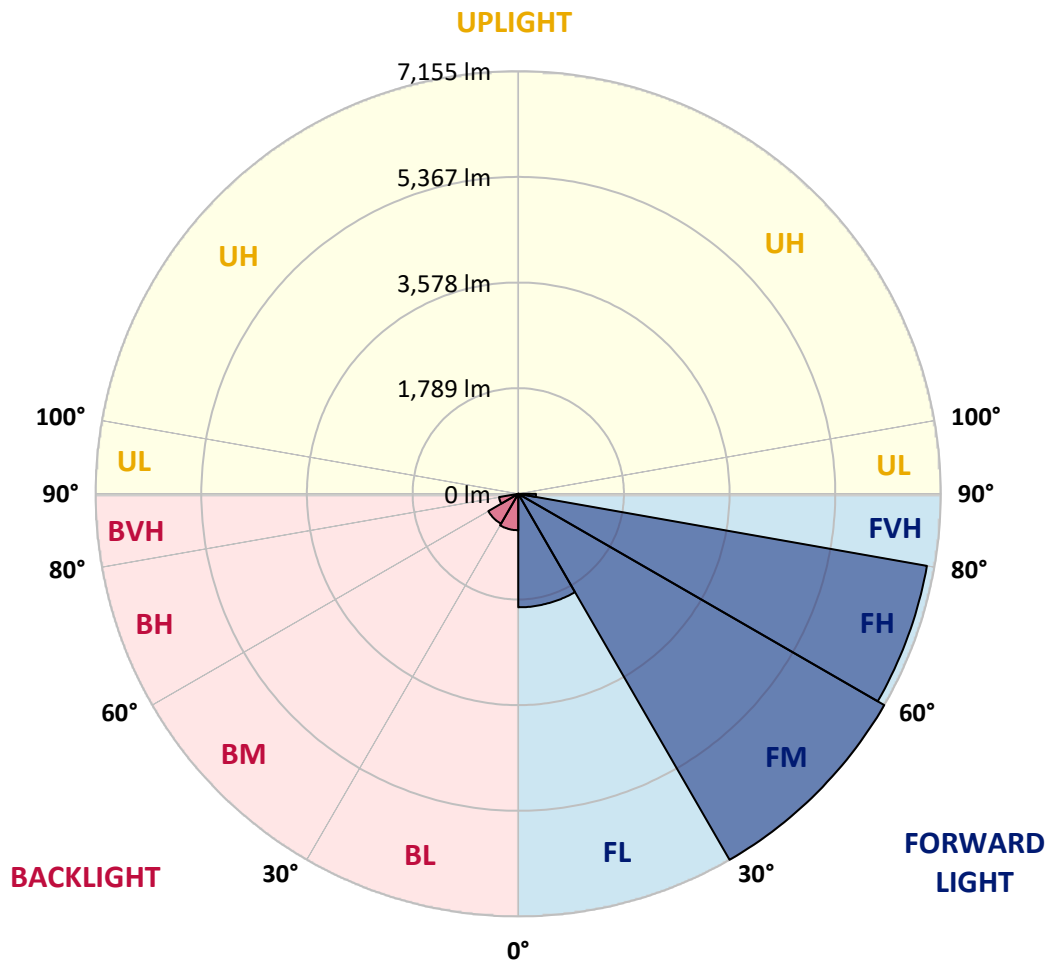


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.4	10.7			
FM (30°-60°)	7155.3	39.9			
FH (60°-80°)	7026.1	39.2			G3/7500
FVH (80°-90°)	299.1	1.7			G3/500
BL (0°-30°)	616.7	3.4	B2/1000		
BM (30°-60°)	585.6	3.3	B1/1000		
BH (60°-80°)	330.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5
2.5°	5737.8	5723.6	5718.4	5709.5	5675.2	5641.6	5575.2	5556.6	5514.8	5415.6	5310.4
5°	5742.3	5741.5	5757.2	5753.5	5741.5	5725.9	5678.1	5653.5	5582.7	5441.0	5248.5
7.5°	5465.6	5479.7	5514.8	5543.1	5576.0	5618.5	5624.4	5600.6	5542.4	5389.5	5134.4
10°	5094.1	5116.5	5165.7	5221.7	5307.5	5392.5	5468.6	5465.6	5445.4	5294.8	4997.2
12.5°	4722.0	4748.1	4804.8	4887.5	5009.1	5147.8	5283.6	5302.2	5335.8	5209.7	4870.4
15°	4396.0	4418.4	4474.3	4575.8	4726.4	4912.9	5112.0	5146.4	5232.9	5143.4	4764.5
17.5°	4119.3	4133.5	4174.5	4287.1	4461.7	4687.7	4946.5	5013.6	5142.6	5091.2	4672.7
20°	3926.1	3928.4	3955.2	4034.3	4208.8	4461.7	4774.9	4871.1	5047.2	5046.4	4578.0
22.5°	3830.7	3823.2	3828.4	3873.9	4002.2	4246.1	4603.4	4717.5	4961.4	5008.4	4481.8
25°	3812.8	3806.8	3791.9	3797.9	3875.4	4057.4	4430.3	4562.4	4886.1	4985.2	4398.3
27.5°	3868.7	3874.7	3849.3	3822.5	3828.4	3935.1	4276.7	4429.6	4824.9	4985.2	4339.3
30°	3981.3	3984.3	3965.7	3930.6	3883.6	3900.8	4170.0	4322.9	4794.3	5019.6	4302.1
32.5°	4105.9	4122.3	4120.1	4091.7	4024.6	3955.2	4144.7	4284.2	4792.1	5095.6	4298.3
35°	4260.3	4278.9	4310.3	4304.3	4234.2	4120.1	4231.2	4340.8	4836.1	5220.9	4338.6
37.5°	4424.4	4452.7	4519.8	4551.9	4506.4	4377.4	4425.1	4503.4	4953.9	5423.8	4440.8
40°	4583.2	4615.3	4737.6	4863.7	4829.4	4696.6	4719.0	4781.6	5163.5	5715.4	4634.7
42.5°	4739.1	4786.9	4966.6	5173.9	5215.0	5109.1	5121.0	5171.0	5474.5	6116.7	4951.7
45°	4925.6	4979.3	5245.5	5501.4	5611.0	5564.8	5615.5	5648.3	5881.0	6647.0	5379.1
47.5°	5199.3	5261.2	5587.9	5879.5	6071.9	6101.8	6204.0	6225.6	6394.9	7264.6	5936.2
50°	5733.3	5750.5	6045.8	6310.6	6588.1	6767.1	6883.4	6899.8	7016.9	7939.6	6632.1
52.5°	6405.3	6416.5	6583.6	6761.1	7076.6	7442.1	7714.3	7737.4	7762.0	8597.4	7319.0
55°	7072.9	7071.4	7181.8	7286.2	7647.2	8178.2	8768.9	8783.1	8606.3	9221.7	7844.1
57.5°	7489.8	7530.1	7697.9	7832.2	8336.3	9017.3	9837.0	9889.2	9493.2	9684.1	8363.2
60°	7357.0	7376.4	7748.6	8245.4	9194.8	10209.9	10917.7	10931.1	10159.9	10145.8	9019.5
62.5°	6268.1	6278.5	6863.3	7887.3	9629.6	11756.8	12221.5	12002.9	10926.7	10786.5	9804.9
65°	4296.1	4364.0	4852.5	6118.2	8830.8	12727.2	14239.7	13878.0	12095.4	11709.8	10515.0
67.5°	2529.9	2515.7	2757.4	3689.7	6485.9	12082.7	16792.8	16433.3	13689.3	12328.1	10306.9
70°	1728.1	1718.4	1810.9	2233.8	3661.4	9373.1	17596.0	18321.8	15096.7	11911.9	8870.4
72.5°	1233.6	1238.9	1375.3	1735.6	2298.7	5461.1	15131.8	16849.5	14655.9	10384.4	6742.5
75°	837.6	851.8	1047.2	1423.8	2015.3	2778.3	10738.0	12808.4	11934.3	7547.2	3875.4
77.5°	450.5	466.2	696.6	1147.1	1822.1	1930.3	6907.3	8815.2	7496.5	3392.9	1123.2
80°	188.0	196.9	325.9	833.9	1574.5	1695.3	4064.1	5345.5	3194.5	669.0	250.6
82.5°	81.3	85.8	135.7	497.5	1176.9	1431.3	2151.8	2571.7	968.1	146.9	126.0
85°	15.7	16.4	55.9	263.3	751.1	807.8	1394.7	1367.1	434.8	63.4	91.7
87.5°	0.0	0.0	13.4	82.8	220.8	440.1	851.0	840.6	147.7	30.6	34.3
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°	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5	5298.5
2.5°	5256.7	5205.3	5097.1	4963.6	4861.4	4748.8	4659.3	4545.9	4496.7	4499.0	4472.1
5°	5138.9	5033.0	4793.6	4491.5	4258.8	4018.6	3812.0	3606.2	3484.6	3445.1	3407.8
7.5°	4970.3	4802.5	4420.6	3955.2	3561.4	3176.6	2841.7	2547.1	2360.6	2269.6	2236.1
10°	4780.1	4544.5	3991.8	3378.7	2816.3	2295.7	1861.6	1484.2	1333.6	1231.4	1205.3
12.5°	4613.1	4293.8	3572.6	2787.2	2119.7	1491.7	1077.8	842.8	740.6	700.4	693.6
15°	4455.7	4059.7	3169.1	2251.7	1467.8	918.1	685.4	605.6	581.8	575.0	575.0
17.5°	4307.3	3836.6	2774.6	1724.4	971.1	643.7	567.6	549.7	542.2	541.5	542.2
20°	4152.1	3613.6	2386.7	1263.5	678.0	545.2	524.3	514.6	512.4	512.4	512.4
22.5°	4003.7	3390.6	2009.3	902.5	543.7	497.5	487.0	480.3	478.1	477.3	475.9
25°	3861.3	3178.8	1640.9	637.7	477.3	455.7	446.8	437.8	431.1	427.4	425.1
27.5°	3744.2	2990.1	1297.8	511.7	431.1	412.5	401.3	387.8	371.4	364.0	361.0
30°	3650.9	2817.8	1000.2	431.8	387.8	369.2	352.0	328.9	305.1	292.4	291.6
32.5°	3577.8	2648.5	759.3	381.9	349.1	325.9	301.3	272.2	244.6	230.5	229.7
35°	3542.0	2499.3	580.3	345.3	314.7	285.7	255.1	223.0	196.2	182.7	181.2
37.5°	3565.9	2373.3	452.7	314.7	285.7	252.1	216.3	182.7	158.9	146.9	146.2
40°	3653.2	2292.7	367.7	288.6	261.0	220.0	181.2	149.9	129.8	120.1	119.3
42.5°	3838.9	2262.9	314.0	267.0	237.2	190.2	150.7	123.8	105.2	98.5	97.0
45°	4149.2	2306.9	277.5	246.1	212.6	161.8	124.6	101.4	85.0	79.8	79.1
47.5°	4562.4	2422.5	251.4	226.0	190.2	136.5	103.7	82.0	69.4	64.1	63.4
50°	5094.9	2606.0	229.7	205.9	169.3	115.6	85.8	64.9	53.7	50.0	50.0
52.5°	5674.4	2824.5	210.3	187.2	148.4	96.2	69.4	50.0	42.5	38.0	38.0
55°	6153.2	3015.5	189.4	173.0	123.1	79.8	53.0	38.0	31.3	29.1	29.1
57.5°	6631.3	3219.1	165.6	148.4	98.5	64.9	40.3	28.3	23.1	21.6	21.6
60°	7251.1	3468.2	142.5	120.8	77.6	49.2	29.8	20.1	17.2	16.4	16.4
62.5°	7932.8	3614.4	121.6	97.0	60.4	36.5	21.6	13.4	12.7	12.7	11.9
65°	8349.8	3407.8	102.2	77.6	47.0	27.6	14.2	9.7	11.2	10.4	9.0
67.5°	7818.0	2667.9	83.5	60.4	36.5	20.9	9.0	6.7	11.9	9.7	7.5
70°	6473.2	1867.6	64.9	42.5	29.1	17.9	6.0	4.5	12.7	9.7	6.0
72.5°	4844.3	1250.0	51.5	28.3	21.6	15.7	5.2	2.2	11.2	8.2	5.2
75°	2647.0	503.4	41.0	17.9	13.4	11.2	3.7	1.5	7.5	6.0	3.7
77.5°	696.6	132.8	29.8	11.9	7.5	4.5	2.2	0.7	3.7	3.0	1.5
80°	177.5	51.5	19.4	8.2	5.2	2.2	0.0	0.0	0.7	0.0	0.0
82.5°	94.7	21.6	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.6	14.2	6.7	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	4.5	2.2	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)