

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: P383236

Luminaire Tested: **GLEON-SA5C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25327.8 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 279
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

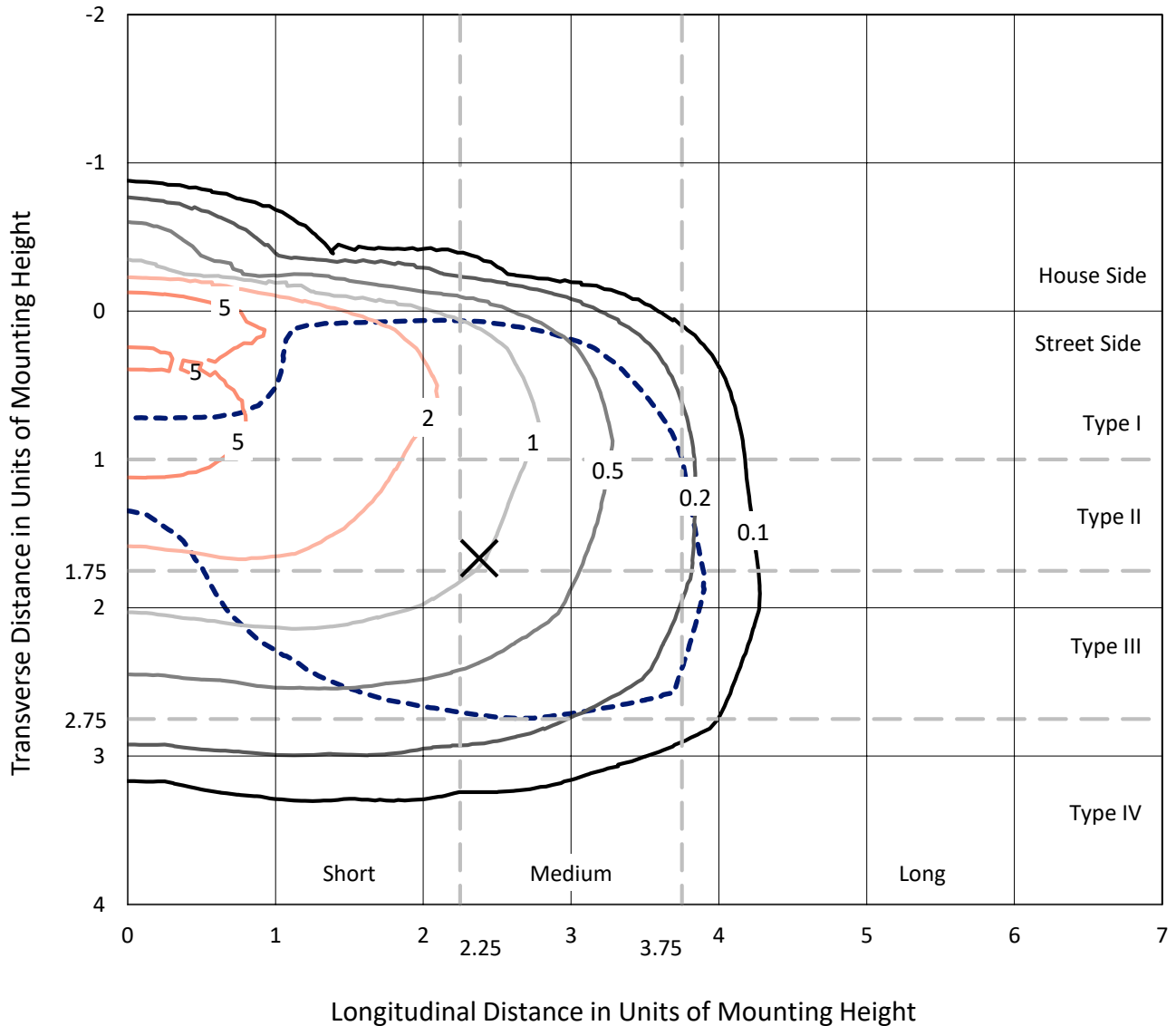




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Iso-Footcandle Lines of Horizontal Illumination

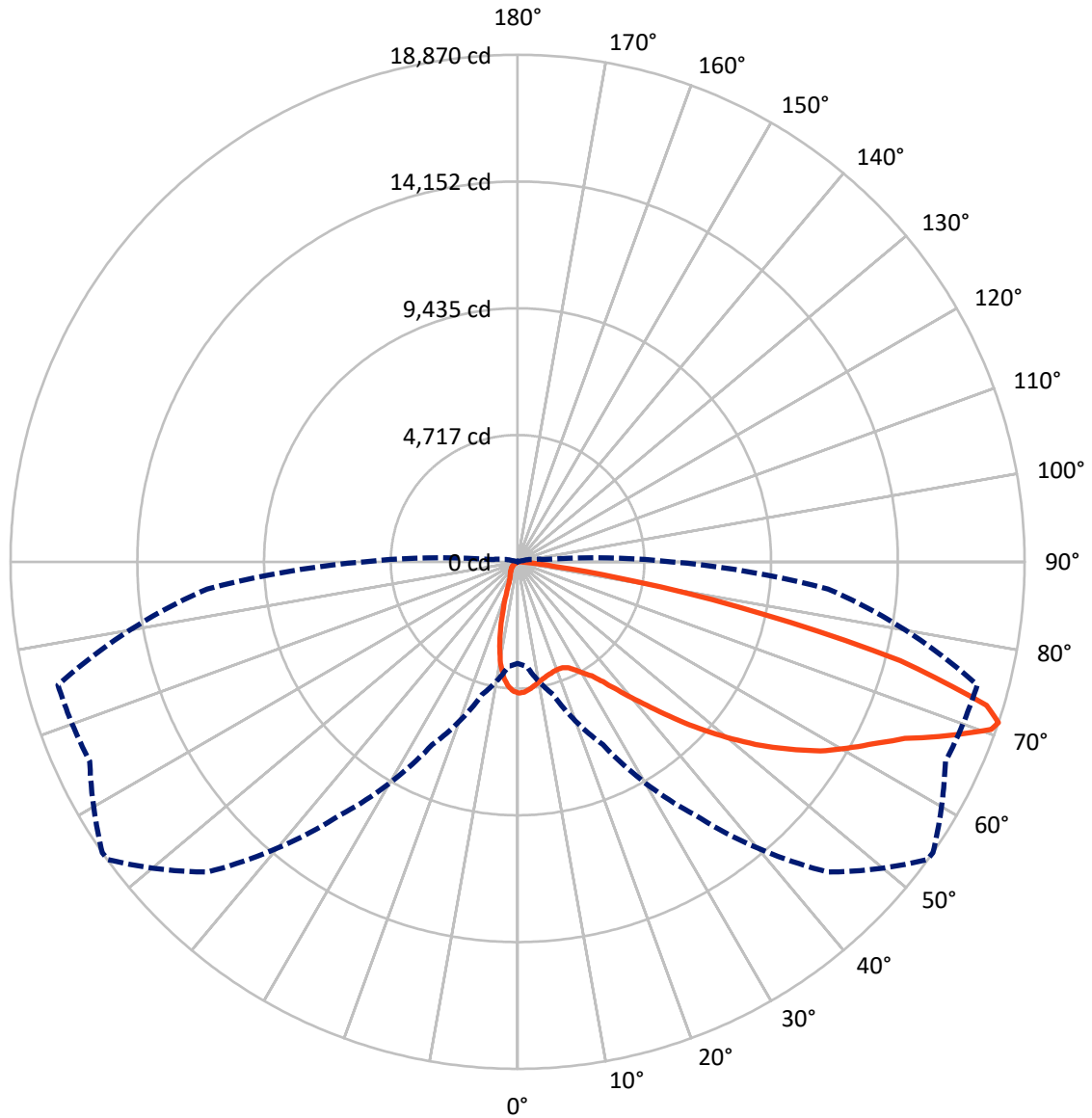
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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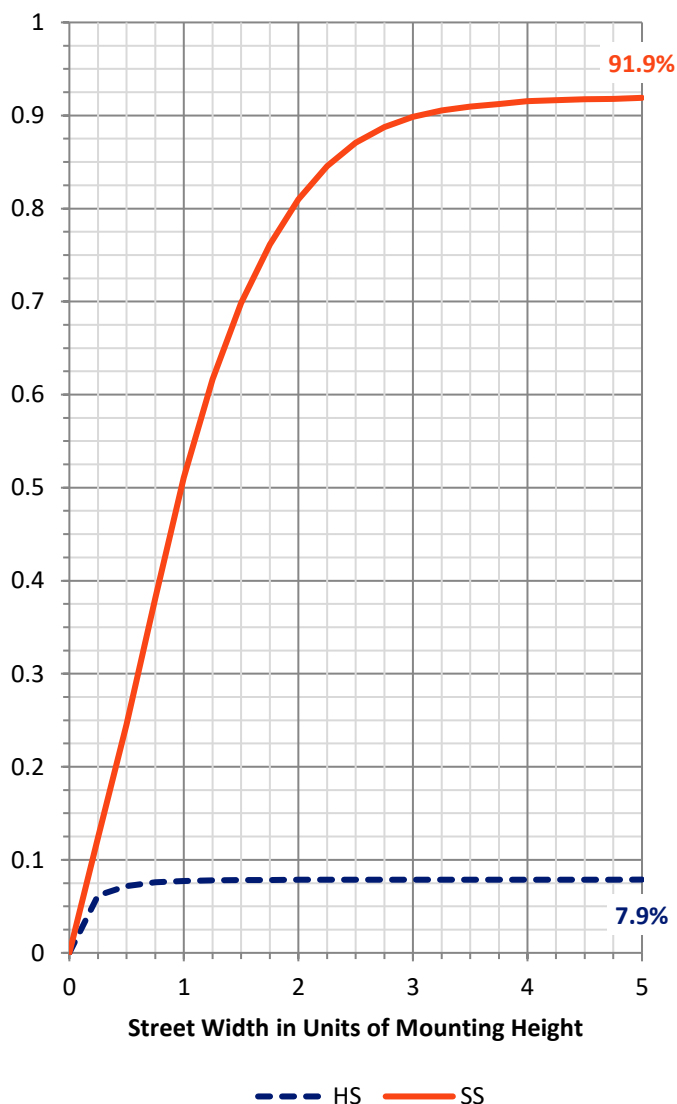
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.3	0.0	2005.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	23322.6	0.0	23322.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	25327.8	0.0	25327.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.5	1.6
10°-20°	940.2	3.7
20°-30°	1511.0	6.0
30°-40°	2567.2	10.1
40°-50°	3984.6	15.7
50°-60°	5357.2	21.2
60°-70°	6553.7	25.9
70°-80°	3831.8	15.1
80°-90°	165.6	0.7
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°	25327.8	100.0
0°-180°	25327.8	100.0

Coefficient of Utilization



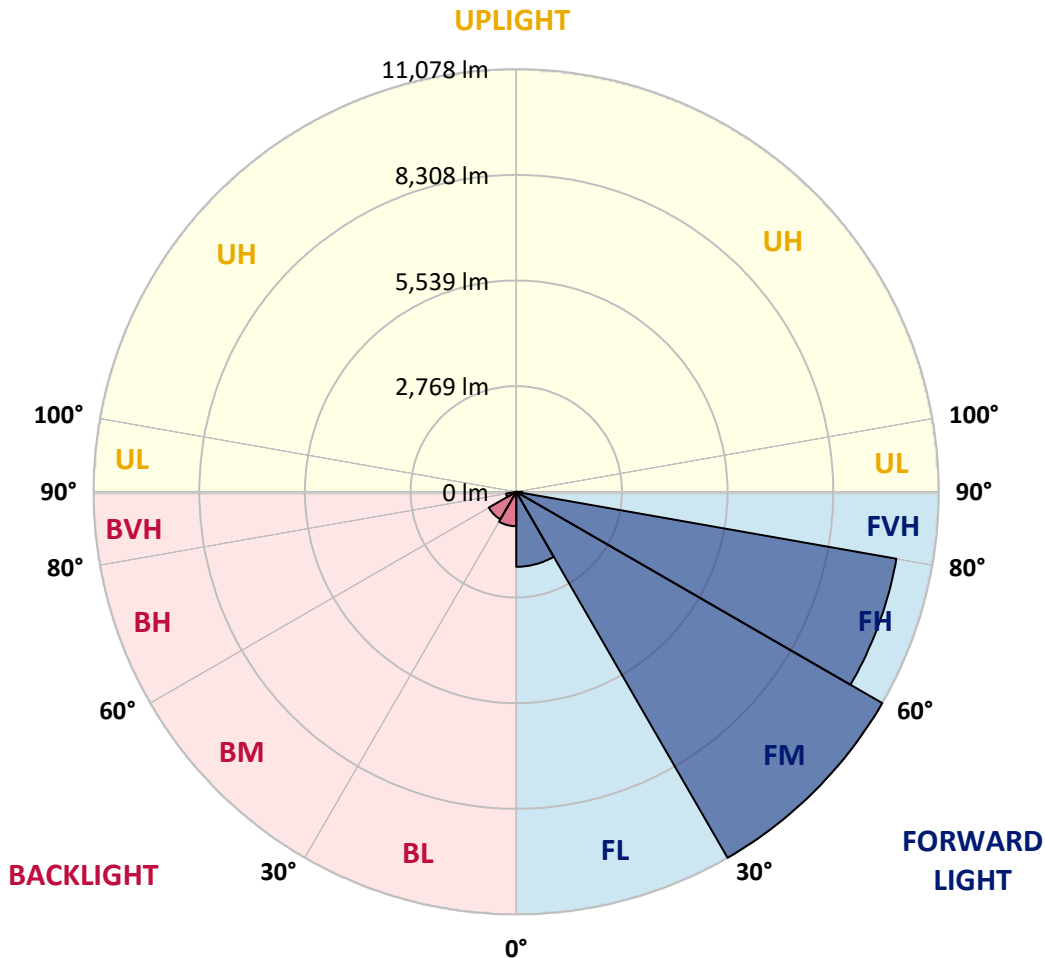
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.1	7.8			
FM (30°-60°)	11077.7	43.7			
FH (60°-80°)	10116.8	39.9			G4/12000
FVH (80°-90°)	163.0	0.6			G2/225
BL (0°-30°)	902.6	3.6	B2/1000		
BM (30°-60°)	831.4	3.3	B1/1000		
BH (60°-80°)	268.7	1.1	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6
2.5°	4741.3	4747.0	4767.4	4776.5	4798.1	4834.5	4852.7	4853.8	4883.5	4894.8	4903.9
5°	4405.8	4439.8	4474.0	4510.4	4576.3	4664.0	4750.3	4758.3	4853.8	4924.3	4961.9
7.5°	4116.9	4147.6	4188.5	4246.6	4339.8	4477.4	4621.9	4638.9	4819.7	4980.1	5064.3
10°	3820.1	3845.1	3904.2	3989.5	4118.1	4302.3	4496.8	4525.2	4789.0	5055.1	5203.0
12.5°	3502.8	3517.5	3589.3	3712.0	3900.9	4135.1	4391.0	4428.5	4769.7	5141.6	5366.7
15°	3261.7	3268.5	3336.7	3464.1	3680.2	3985.0	4309.2	4354.6	4774.3	5245.1	5545.3
17.5°	3200.2	3203.7	3240.1	3327.7	3518.7	3850.8	4244.3	4300.0	4787.9	5346.3	5725.0
20°	3449.3	3425.5	3387.9	3374.3	3456.1	3770.1	4205.7	4268.2	4806.1	5436.1	5886.5
22.5°	4132.8	4062.3	3906.5	3698.4	3572.1	3775.7	4215.8	4278.4	4864.1	5546.4	6073.0
25°	5147.3	5049.5	4784.5	4375.1	3981.6	3939.5	4301.1	4364.9	4976.7	5678.3	6251.5
27.5°	6301.6	6204.9	5880.8	5296.2	4625.2	4263.6	4496.8	4555.9	5143.8	5795.5	6388.0
30°	7407.0	7379.7	6997.6	6333.4	5435.0	4789.0	4749.2	4799.2	5267.8	5866.0	6496.1
32.5°	8344.2	8300.9	7993.9	7347.9	6361.9	5420.2	5046.1	5060.8	5361.1	5957.0	6637.1
35°	9213.0	9159.5	8890.0	8279.3	7312.6	6191.3	5503.2	5481.6	5564.7	6140.1	6841.8
37.5°	9971.6	10020.5	9721.4	9140.3	8165.6	6993.0	6119.6	6054.8	5883.1	6438.1	7138.6
40°	10606.1	10606.1	10450.4	9965.9	9086.8	7822.1	6816.8	6731.5	6361.9	6897.6	7515.1
42.5°	10834.7	10883.6	10941.7	10667.6	9911.3	8684.2	7593.5	7504.8	7036.3	7549.2	7990.4
45°	10848.4	10925.7	11222.5	11221.4	10656.2	9540.5	8469.3	8427.2	7900.6	8386.3	8579.6
47.5°	10656.2	10752.9	11241.9	11519.4	11246.5	10337.8	9426.8	9374.5	8916.2	9412.0	9196.0
50°	10359.4	10466.3	11034.9	11636.5	11647.9	11031.5	10435.6	10357.1	10034.1	10584.5	9832.9
52.5°	9828.3	10035.3	10849.5	11663.8	11911.7	11630.8	11395.4	11361.3	11285.1	11713.8	10340.1
55°	8692.2	8921.9	10384.4	11672.9	12156.2	12161.9	12295.0	12304.1	12457.7	12769.3	10717.6
57.5°	8155.3	8285.0	9572.4	11716.2	12519.1	12764.7	13211.7	13282.2	13519.8	13771.2	11148.7
60°	7817.5	7971.1	9172.1	11657.0	13088.8	13555.1	14061.2	14085.1	14339.8	14805.0	11732.1
62.5°	7548.1	7699.3	8919.6	11429.5	13729.1	14505.9	14891.3	14893.7	15084.7	16036.6	12395.1
65°	6882.7	7010.1	8409.0	11173.6	14152.2	15446.4	15855.8	15841.0	15996.8	17335.4	13165.0
67.5°	5920.6	6018.4	7366.1	10203.6	13993.0	16301.6	17311.5	17262.6	17073.8	18457.9	13467.6
70°	4577.5	4612.7	5805.8	8503.4	12500.8	16630.3	18718.3	18693.3	17734.5	18256.6	12358.7
71°	3783.7	3899.7	5116.5	7504.8	11501.2	16326.6	18854.8	18869.5	17568.5	17708.4	11595.6
72.5°	2197.2	2296.2	3708.7	5763.7	9764.6	15059.7	18147.4	18254.3	16792.9	16107.1	9904.5
75°	470.8	503.8	1375.0	2789.7	5371.3	10555.0	14323.8	14704.9	13687.0	10957.6	5969.5
77.5°	327.5	353.7	589.1	1265.8	1775.3	5215.5	8898.0	9327.9	8176.9	4118.1	1910.6
80°	259.3	288.9	459.4	625.5	479.9	1682.0	4168.1	4430.8	2727.2	918.9	321.8
82.5°	144.4	171.7	358.3	337.8	184.3	319.6	1166.9	1319.3	545.9	185.4	76.2
85°	42.1	51.1	230.8	245.6	78.4	61.4	199.0	246.8	103.5	48.9	34.1
87.5°	0.0	0.0	111.4	94.4	22.7	9.1	18.2	20.5	20.5	20.5	22.7
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°	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6	4884.6
2.5°	4903.9	4911.9	4883.5	4845.9	4806.1	4757.2	4706.0	4666.2	4665.1	4645.7	4626.4
5°	4964.2	4959.7	4881.1	4761.7	4620.8	4474.0	4334.1	4176.0	4123.8	4058.9	4037.3
7.5°	5075.6	5043.8	4877.8	4616.2	4306.8	3999.8	3682.5	3362.9	3226.4	3103.6	3082.0
10°	5215.5	5155.3	4856.2	4397.8	3830.3	3264.0	2785.1	2350.8	2159.7	2013.0	2006.2
12.5°	5361.1	5268.9	4795.9	4068.0	3205.9	2409.9	1858.3	1430.7	1271.5	1169.1	1178.2
15°	5513.5	5375.9	4666.2	3623.3	2495.2	1635.4	1141.8	890.5	826.7	800.7	807.5
17.5°	5669.3	5449.8	4485.4	3087.7	1793.5	1055.4	790.4	719.9	719.9	725.6	727.8
20°	5804.7	5489.6	4219.3	2487.2	1215.8	768.8	691.5	681.2	686.9	696.1	697.2
22.5°	5938.8	5491.8	3872.4	1878.7	850.7	673.2	658.5	653.9	657.3	667.5	668.8
25°	6048.0	5464.6	3438.0	1336.3	678.9	634.6	627.8	625.5	627.8	640.3	640.3
27.5°	6092.3	5365.6	2908.0	939.4	608.4	591.3	589.1	591.3	594.8	603.9	605.0
30°	6096.9	5192.7	2330.3	680.1	551.6	533.4	538.0	545.9	542.4	540.2	542.4
32.5°	6108.3	4992.6	1767.3	559.6	503.8	475.4	469.7	469.7	456.1	448.1	443.5
35°	6145.8	4757.2	1281.7	502.7	454.9	421.9	400.3	375.3	349.1	335.5	332.1
37.5°	6204.9	4510.4	917.8	465.1	411.7	374.2	333.2	288.9	251.3	241.1	241.1
40°	6313.0	4255.7	678.9	435.6	377.6	331.0	269.5	211.6	177.5	171.7	171.7
42.5°	6483.6	3987.3	541.3	409.4	348.0	286.6	205.9	153.5	128.6	125.1	124.0
45°	6660.9	3691.5	473.1	384.4	316.2	235.4	152.4	113.7	98.9	95.6	95.6
47.5°	6838.4	3376.6	440.2	360.5	285.4	183.1	113.7	89.8	83.0	83.0	84.1
50°	6988.5	3047.8	416.2	334.3	245.6	138.7	89.8	76.2	74.0	78.4	79.6
52.5°	7026.0	2724.9	386.7	301.4	196.7	105.7	74.0	67.1	67.1	67.1	67.1
55°	7003.3	2474.7	348.0	260.5	145.6	84.1	63.7	59.2	58.0	58.0	58.0
57.5°	7080.6	2326.8	278.6	202.4	104.6	68.3	55.7	52.4	50.0	48.9	48.9
60°	7236.4	2230.2	199.0	145.6	78.4	56.8	47.8	44.3	41.0	38.7	38.7
62.5°	7443.4	2146.0	147.8	108.1	60.3	45.5	39.8	36.4	31.9	29.5	29.5
65°	7602.6	1995.9	112.6	80.8	45.5	36.4	30.7	29.5	22.7	20.5	19.4
67.5°	7359.2	1666.1	91.0	59.2	34.1	28.4	23.8	22.7	13.7	11.4	11.4
70°	6311.8	1160.1	72.8	43.2	25.1	22.7	19.4	14.8	10.2	9.1	9.1
71°	5723.9	969.0	66.0	36.4	21.6	21.6	18.2	12.5	9.1	7.9	7.9
72.5°	4754.9	688.0	55.7	28.4	19.4	22.7	19.4	11.4	9.1	7.9	6.8
75°	2760.2	287.8	38.7	19.4	14.8	27.3	25.1	10.2	6.8	5.7	5.7
77.5°	830.2	105.7	21.6	12.5	11.4	23.8	28.4	9.1	3.4	1.1	1.1
80°	151.3	45.5	13.7	7.9	7.9	14.8	21.6	4.6	0.0	0.0	0.0
82.5°	53.5	22.7	7.9	4.6	3.4	6.8	10.2	0.0	0.0	0.0	0.0
85°	30.7	15.9	4.6	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	20.5	4.6	0.0	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)