

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: P383277

Luminaire Tested: **GLEON-SA6A-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25435.9 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

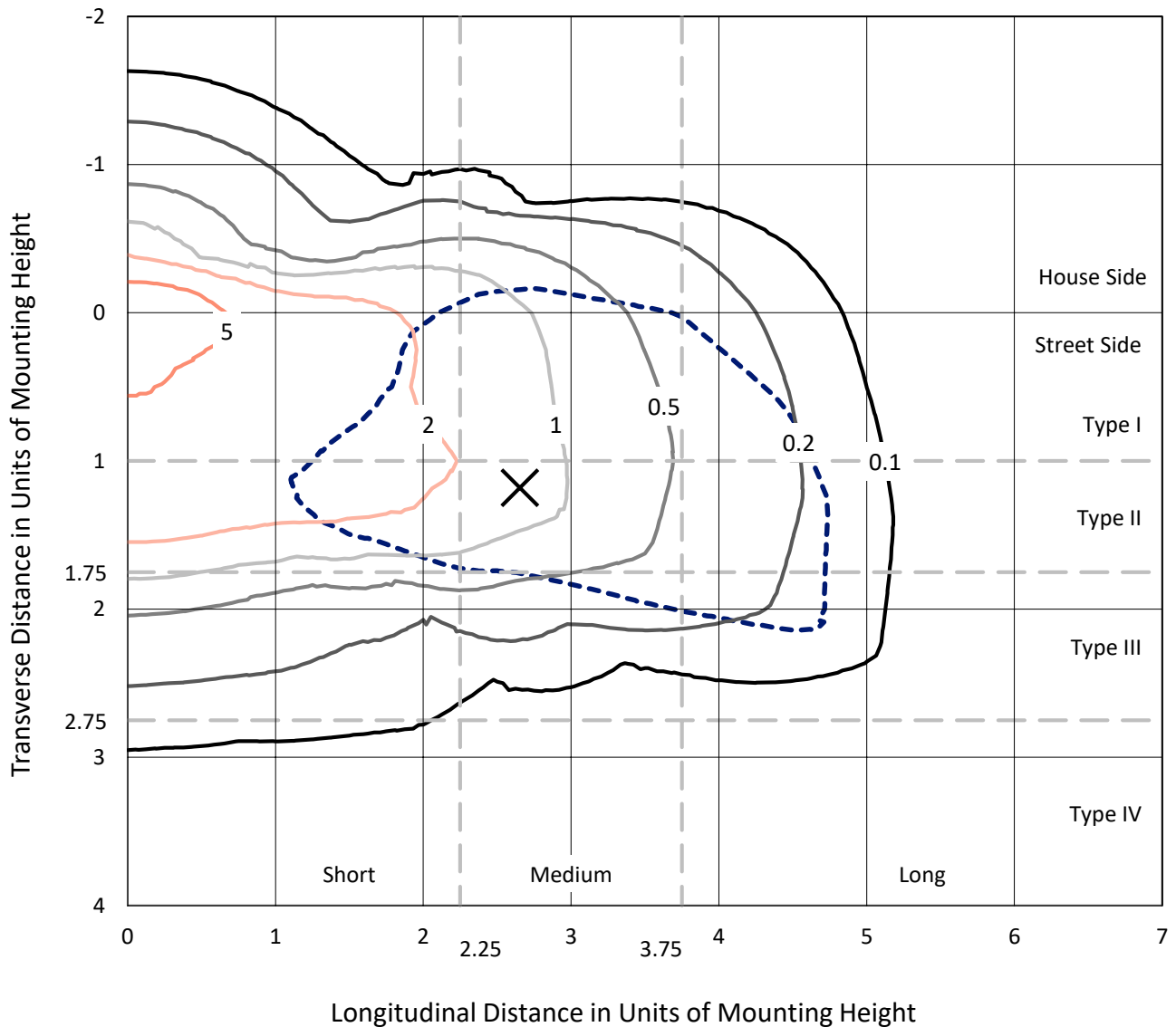
Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

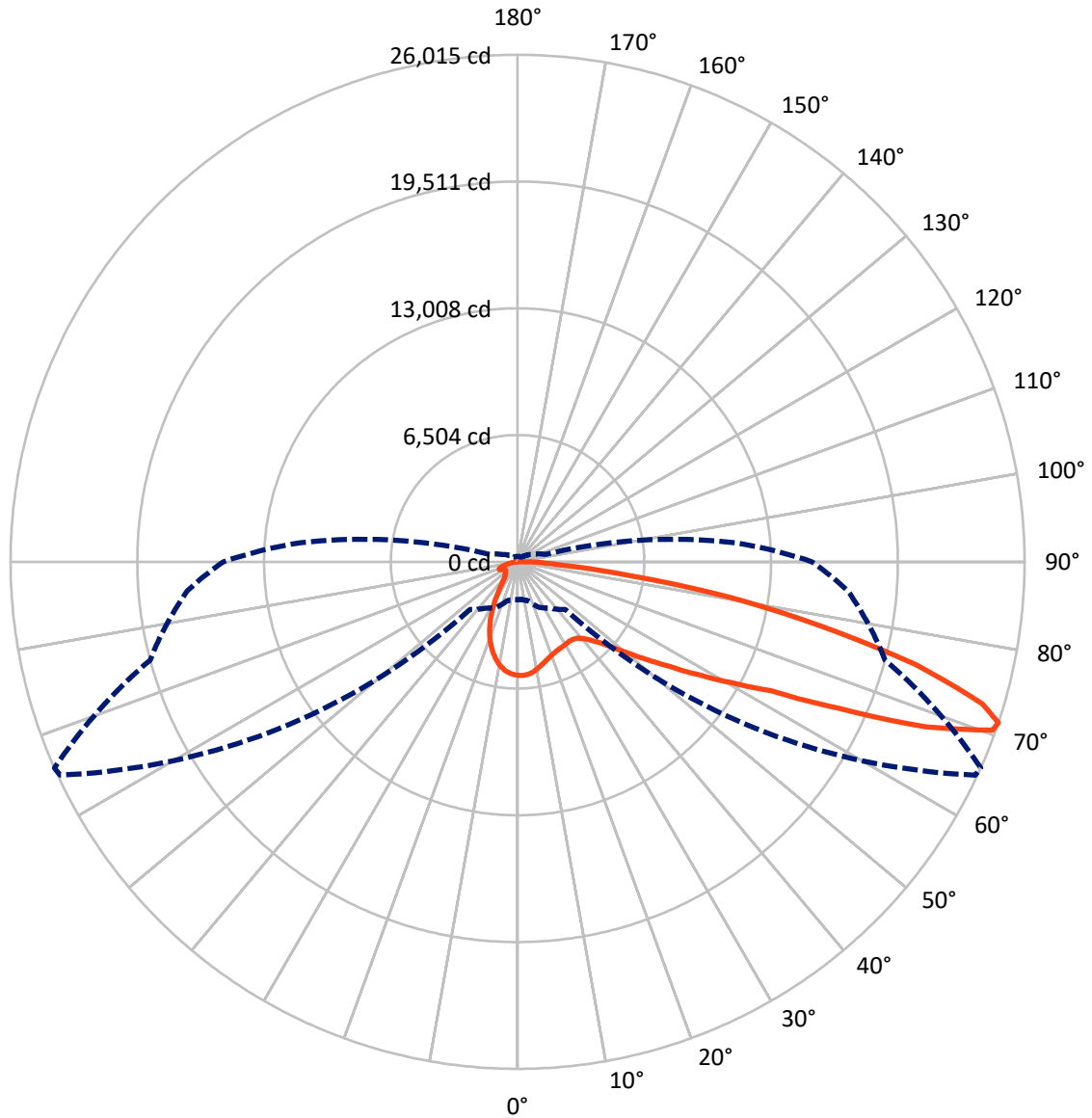
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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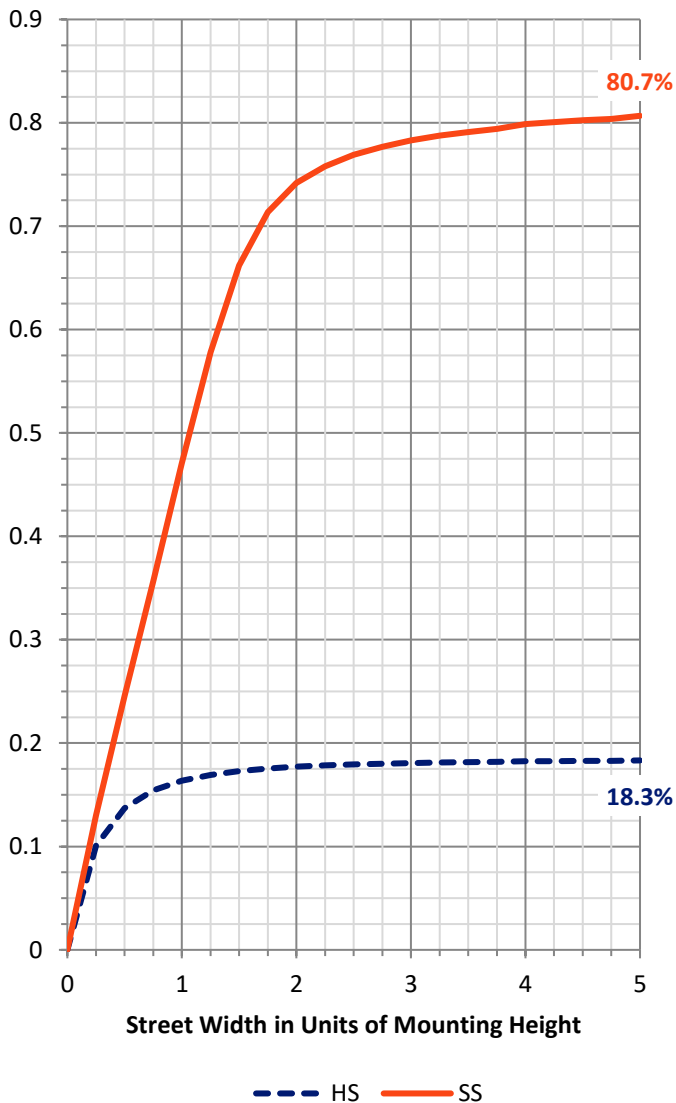
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4714.0	0.0	4714.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	20721.9	0.0	20721.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	25435.9	0.0	25435.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.9	2.0
10°-20°	1230.2	4.8
20°-30°	1652.4	6.5
30°-40°	2173.7	8.5
40°-50°	3162.2	12.4
50°-60°	4939.7	19.4
60°-70°	6187.8	24.3
70°-80°	4719.9	18.6
80°-90°	857.1	3.4
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°	25435.9	100.0
0°-180°	25435.9	100.0

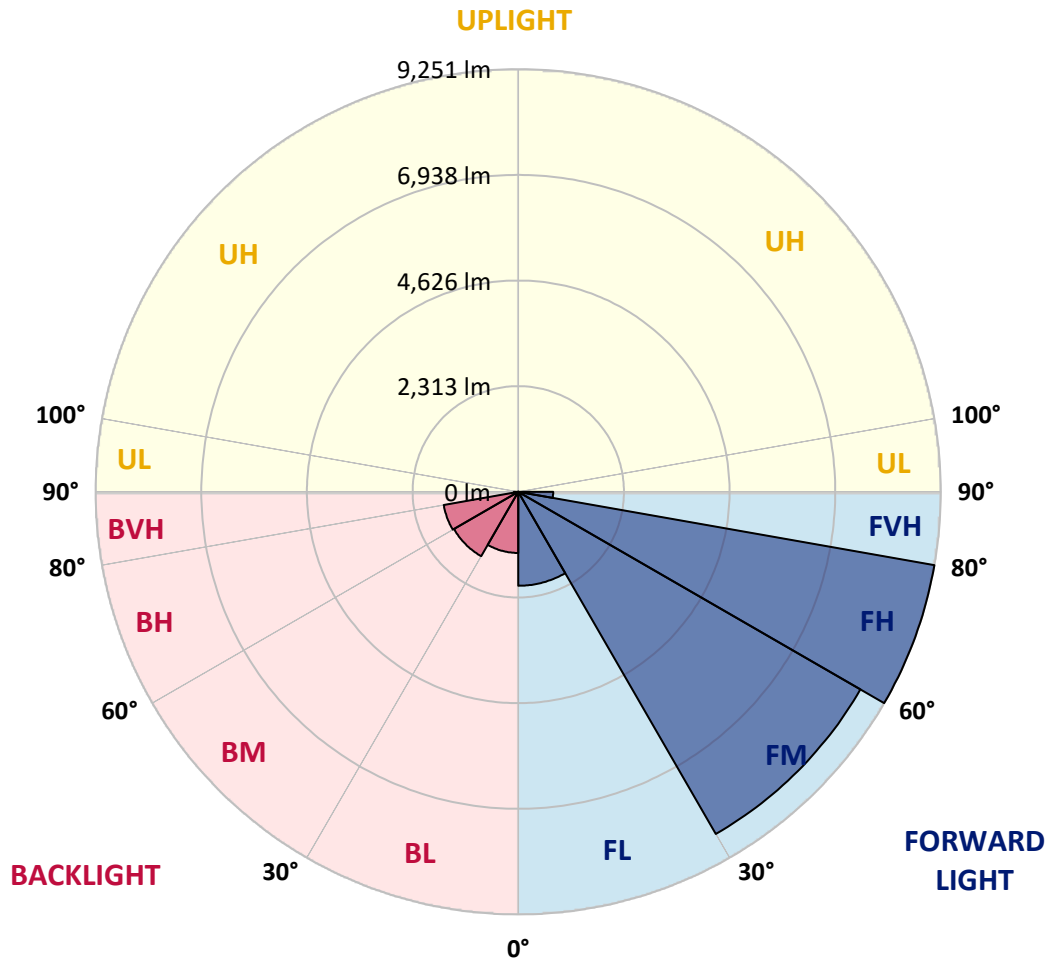


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.8	8.1			
FM (30°-60°)	8649.5	34.0			
FH (60°-80°)	9251.3	36.4			G4/12000
FVH (80°-90°)	764.3	3.0			G5
BL (0°-30°)	1338.6	5.3	B3/2500		
BM (30°-60°)	1626.2	6.4	B2/2500		
BH (60°-80°)	1656.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	92.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
2.5°	5718.9	5710.1	5736.4	5763.7	5774.2	5791.7	5818.1	5833.0	5832.1	5834.7	5826.0
5°	5339.4	5328.1	5380.7	5423.7	5506.3	5599.4	5712.7	5793.5	5795.3	5840.9	5853.2
7.5°	4980.3	4972.4	5033.0	5102.4	5198.0	5340.4	5523.9	5697.8	5708.3	5832.1	5875.2
10°	4692.2	4690.4	4749.3	4824.9	4936.4	5095.3	5306.1	5560.8	5576.6	5790.0	5878.7
12.5°	4467.4	4471.0	4521.8	4607.9	4725.6	4891.6	5119.9	5407.1	5432.6	5723.2	5858.5
15°	4301.4	4315.5	4356.8	4443.7	4559.6	4728.3	4962.7	5264.8	5303.5	5648.6	5847.0
17.5°	4206.6	4222.4	4251.4	4323.4	4432.3	4594.8	4816.9	5148.0	5183.1	5591.5	5848.0
20°	4178.5	4191.7	4208.4	4252.2	4344.5	4492.0	4701.9	5042.7	5080.4	5545.9	5856.7
22.5°	4233.8	4243.5	4245.2	4241.7	4297.9	4418.2	4618.4	4965.3	5005.8	5516.0	5862.9
25°	4352.4	4365.5	4355.9	4323.4	4305.0	4378.7	4575.4	4914.4	4954.8	5494.1	5850.6
27.5°	4530.7	4532.4	4524.5	4482.3	4395.4	4383.1	4562.3	4884.6	4923.2	5468.6	5825.2
30°	4773.1	4784.4	4770.4	4713.4	4571.0	4453.4	4578.1	4855.6	4890.7	5436.0	5783.9
32.5°	5056.7	5084.8	5083.9	5024.2	4820.5	4610.6	4643.0	4838.0	4865.3	5401.9	5733.8
35°	5350.9	5389.6	5461.6	5436.0	5184.1	4859.1	4767.8	4866.1	4884.6	5397.4	5698.6
37.5°	5656.5	5695.1	5843.6	5912.1	5617.0	5214.8	4964.5	4965.3	4974.2	5451.0	5696.0
40°	5976.2	6017.4	6240.5	6418.8	6178.1	5665.3	5281.5	5172.6	5162.9	5582.8	5747.8
42.5°	6424.0	6460.9	6728.8	6956.2	6800.8	6242.3	5719.7	5492.3	5472.1	5840.9	5913.8
45°	6990.5	7022.1	7306.7	7549.9	7470.0	6900.9	6270.3	5932.3	5928.7	6271.3	6250.1
47.5°	7664.0	7688.6	7944.2	8179.5	8208.5	7658.8	6962.4	6611.1	6554.0	6861.4	6771.0
50°	8365.8	8393.0	8566.9	8819.8	9035.0	8673.2	7852.9	7442.8	7366.4	7640.4	7508.6
52.5°	8830.3	8866.4	9017.4	9337.9	9964.1	9785.0	8905.9	8450.9	8335.0	8584.4	8483.4
55°	8623.1	8703.8	8934.8	9448.6	10707.0	11483.4	10204.7	9626.9	9496.0	9703.3	9643.6
57.5°	7680.8	7791.4	8106.7	8899.7	10811.5	12979.8	12168.3	11011.8	10919.6	10859.9	10887.1
60°	5958.6	6064.8	6455.6	7489.3	10083.5	14072.3	15123.5	12719.0	12585.5	12020.9	12045.5
62.5°	4217.1	4163.6	4431.4	5187.5	8193.6	14200.5	18486.2	15002.3	14563.3	13246.8	13138.8
65°	3216.0	3203.7	3324.0	3564.7	4962.7	12666.3	20489.4	18840.1	18154.2	14688.8	14434.1
67.5°	2642.5	2620.5	2739.1	3089.5	3195.8	8171.6	20533.3	23292.6	22619.0	16483.8	15932.4
70°	2172.6	2148.1	2258.7	2711.0	2953.4	4144.3	17281.2	25899.9	25864.0	18756.6	17063.4
71°	1947.9	1930.3	2062.9	2565.2	2901.6	3454.0	14920.7	25907.0	26015.0	19526.0	16996.7
72.5°	1586.1	1592.2	1732.7	2283.3	2862.9	3050.0	10966.1	24699.4	24927.7	20259.3	16389.9
75°	1053.9	1059.1	1243.5	1756.4	2776.0	2984.1	6027.1	20725.5	21145.4	19820.2	14955.8
77.5°	707.8	706.1	831.7	1204.9	2418.6	2984.1	3533.9	15501.1	15962.3	15770.7	11530.0
80°	487.4	483.8	572.6	831.7	1831.0	3020.2	2732.0	10863.3	11003.0	8516.8	4686.1
82.5°	298.6	301.3	374.1	587.5	1246.1	2718.1	2579.3	5923.4	5771.6	2388.7	1170.7
85°	171.2	170.4	238.8	397.9	800.0	2293.8	2515.2	2549.5	2338.7	719.2	423.3
87.5°	61.5	65.9	128.2	220.4	458.4	1597.4	2134.0	1326.1	1195.3	324.9	191.4
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°	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8	5826.8
2.5°	5819.8	5825.2	5819.0	5783.9	5754.0	5705.6	5678.4	5640.7	5629.2	5624.0	5638.1
5°	5841.8	5843.6	5791.7	5699.6	5595.9	5473.9	5386.0	5278.0	5227.1	5205.1	5219.2
7.5°	5862.0	5854.1	5740.8	5564.3	5372.9	5160.3	4971.5	4798.5	4697.5	4656.2	4659.8
10°	5864.7	5831.3	5649.5	5376.3	5079.5	4767.8	4477.9	4211.0	4042.4	3932.6	3966.0
12.5°	5837.4	5781.2	5515.1	5133.1	4721.2	4296.2	3904.5	3504.0	3263.4	3151.9	3155.3
15°	5816.3	5714.5	5350.0	4846.8	4293.5	3730.6	3195.8	2725.1	2468.6	2354.5	2300.9
17.5°	5798.8	5642.5	5158.5	4524.5	3788.6	3074.6	2431.7	2012.0	1871.5	1838.0	1824.1
20°	5774.2	5566.1	4945.1	4151.3	3213.4	2340.4	1775.7	1568.4	1569.4	1607.9	1613.3
22.5°	5739.9	5479.1	4717.7	3732.3	2595.9	1704.5	1391.9	1332.2	1392.8	1466.6	1479.8
25°	5689.0	5376.3	4464.8	3269.5	1979.4	1310.3	1189.1	1186.4	1260.2	1337.5	1348.9
27.5°	5617.0	5242.0	4183.8	2772.5	1458.7	1113.6	1065.2	1083.7	1138.2	1194.3	1198.7
30°	5520.4	5085.7	3873.7	2248.2	1143.4	991.4	986.2	1002.9	1036.3	1075.8	1079.3
32.5°	5414.2	4926.7	3542.7	1740.6	979.1	925.6	930.9	938.8	954.6	970.4	973.9
35°	5317.6	4764.2	3203.7	1322.6	901.0	882.5	879.1	877.3	879.1	873.8	874.7
37.5°	5255.1	4629.9	2850.6	1052.9	856.3	844.8	834.3	821.2	806.2	797.4	799.2
40°	5232.3	4529.7	2493.2	909.8	819.4	811.5	791.3	763.1	745.6	740.3	740.3
42.5°	5293.8	4477.9	2148.1	837.8	788.6	775.4	742.1	709.6	696.4	695.5	694.7
45°	5481.8	4499.0	1819.6	798.2	760.5	735.1	691.1	663.9	655.2	656.9	656.0
47.5°	5819.0	4631.7	1538.6	772.0	732.4	699.0	649.8	628.0	617.3	617.3	618.3
50°	6392.5	4941.7	1314.7	750.0	708.7	665.7	620.0	592.7	578.8	577.8	577.8
52.5°	7227.6	5496.7	1175.1	731.5	682.4	635.8	590.1	555.9	539.2	535.7	534.0
55°	8274.4	6292.3	1136.4	719.2	647.2	603.4	554.2	519.9	501.5	493.5	492.7
57.5°	9445.1	7260.1	1212.8	704.3	611.2	564.7	514.6	482.2	462.8	453.2	452.3
60°	10629.8	8316.6	1524.6	683.2	581.4	522.5	474.3	444.3	425.1	414.5	412.8
62.5°	11816.2	9430.1	2161.3	681.5	560.3	482.2	433.0	407.5	389.0	377.6	374.9
65°	13154.6	10649.1	2884.9	728.0	553.2	445.3	390.8	370.6	354.8	344.3	343.4
67.5°	14691.4	12025.3	2815.5	823.8	577.0	411.8	351.3	335.5	324.1	315.2	314.4
70°	15412.5	11810.1	1750.3	891.4	610.3	379.4	313.6	302.1	293.3	287.2	284.5
71°	15110.4	11213.8	1467.5	883.5	606.8	365.4	298.6	289.8	281.0	275.7	273.1
72.5°	14286.6	10226.6	1224.2	822.0	567.3	339.8	279.3	270.5	262.6	256.5	254.7
75°	12820.0	9133.3	980.1	656.9	452.3	287.2	245.0	235.4	229.3	225.7	222.2
77.5°	9424.0	6518.0	757.9	519.1	332.8	234.5	209.0	202.0	195.8	190.6	187.9
80°	3610.3	2524.9	510.2	387.2	244.2	185.3	168.6	165.1	158.9	155.5	155.5
82.5°	972.2	754.4	272.2	234.5	163.3	135.3	129.1	127.3	122.0	115.0	115.9
85°	393.4	332.8	152.8	129.1	100.1	79.9	86.9	87.8	81.7	72.8	73.8
87.5°	173.0	141.4	85.1	57.1	43.9	30.7	39.5	39.5	36.1	29.9	27.2
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)