

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: P318850

Luminaire Tested: **GLEON-SA6C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31285 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

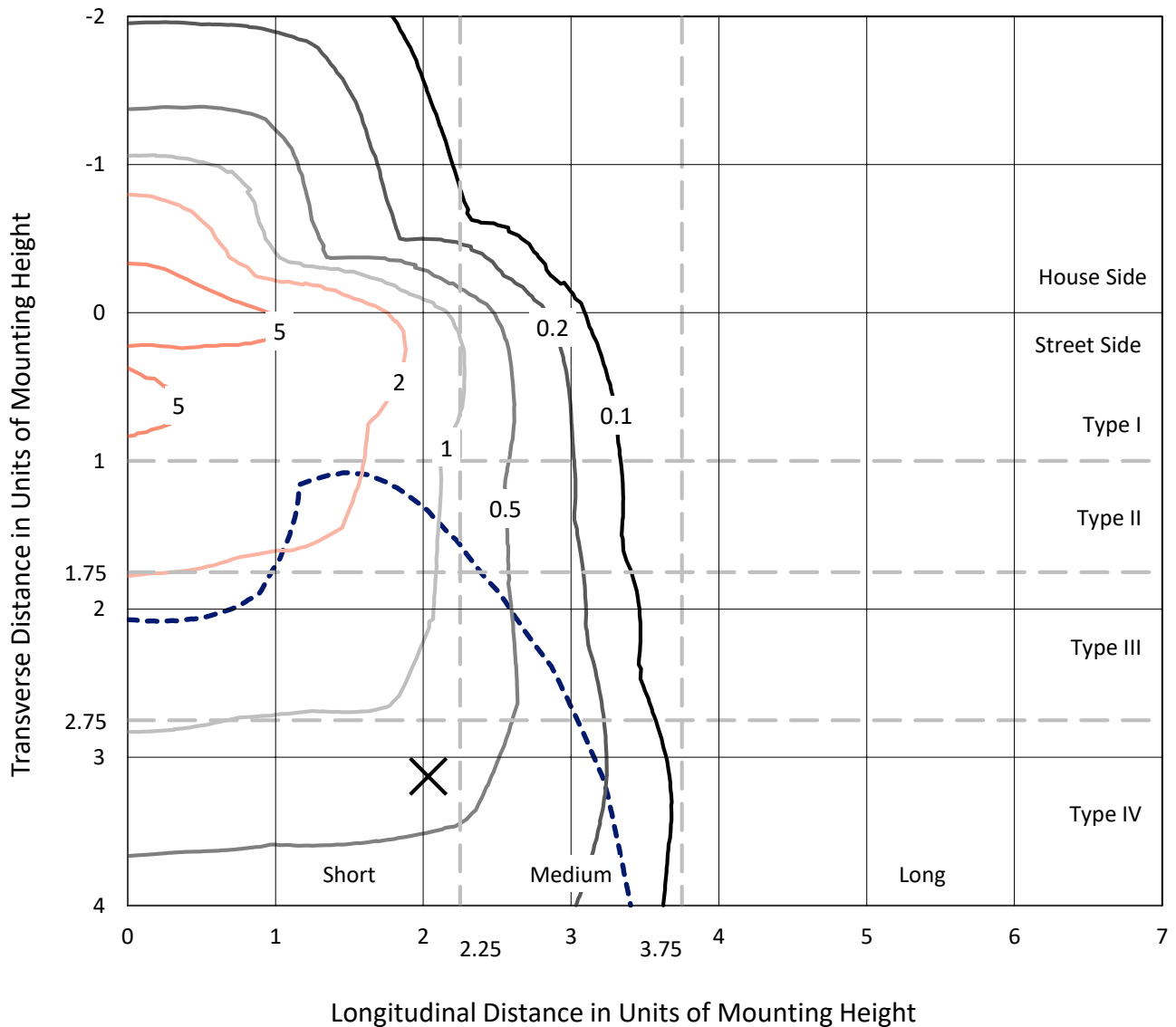
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

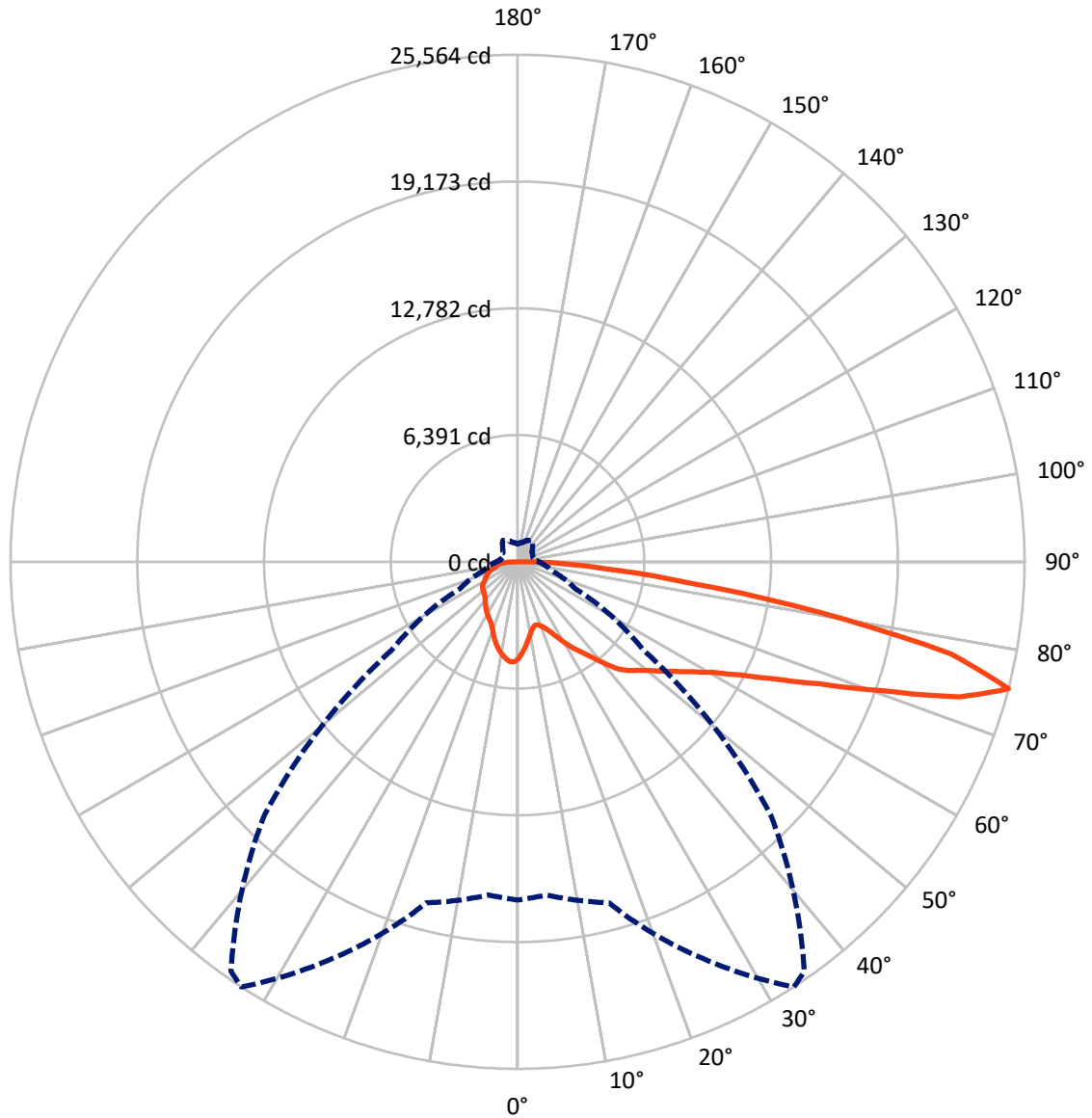
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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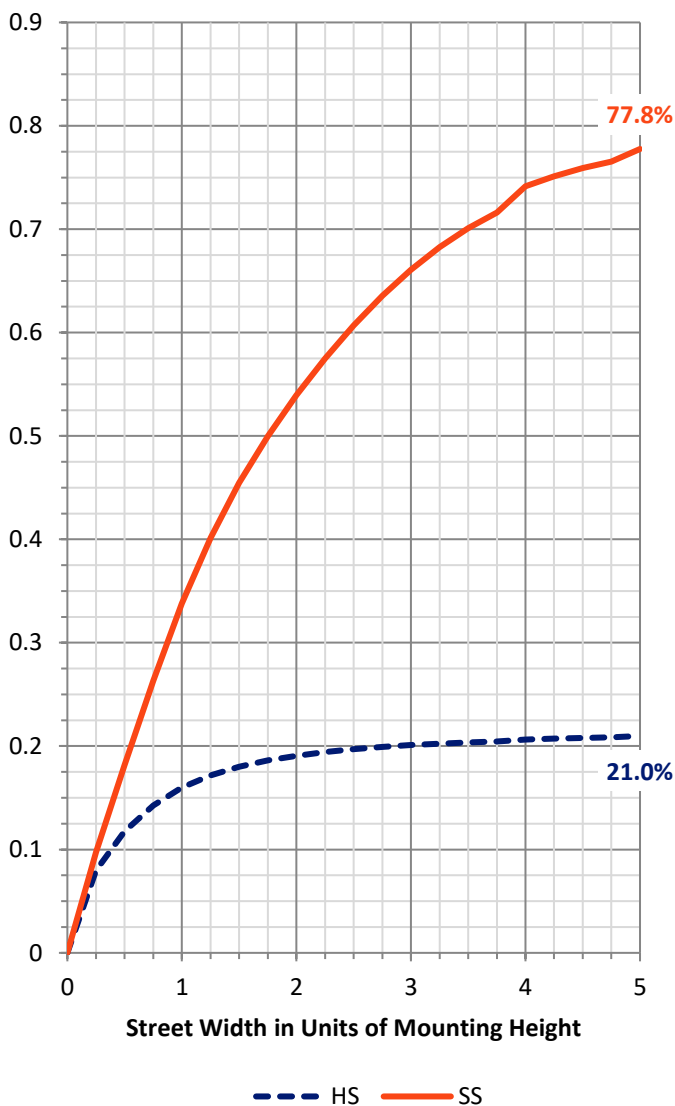
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6717.7	0.0	6717.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	24567.3	0.0	24567.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	31285.0	0.0	31285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.4
10°-20°	1197.8	3.8
20°-30°	1956.1	6.3
30°-40°	2913.2	9.3
40°-50°	4178.3	13.4
50°-60°	5736.1	18.3
60°-70°	7181.3	23.0
70°-80°	6496.6	20.8
80°-90°	1183.4	3.8
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°	31285.0	100.0
0°-180°	31285.0	100.0

Coefficient of Utilization



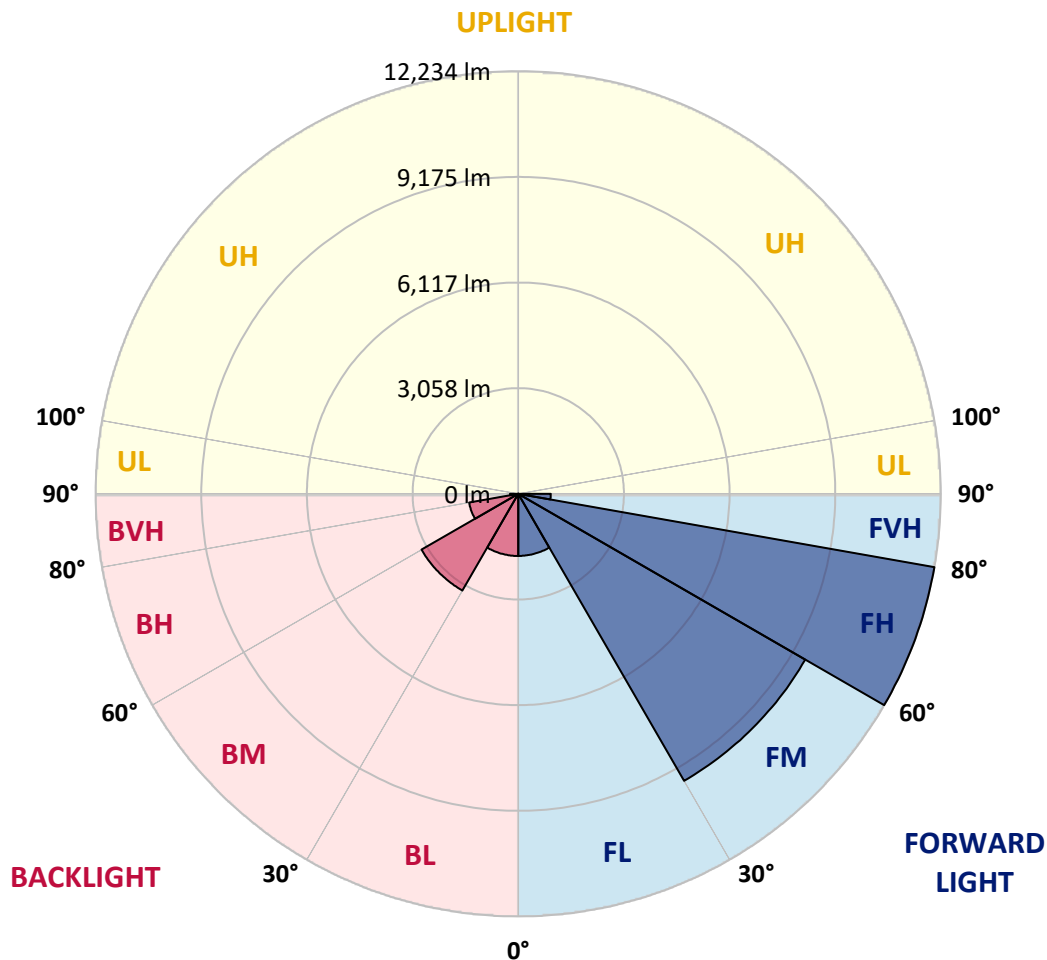
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.8	5.7			
FM (30°-60°)	9594.5	30.7			
FH (60°-80°)	12233.5	39.1			G5
FVH (80°-90°)	942.5	3.0			G5
BL (0°-30°)	1799.3	5.8	B3/2500		
BM (30°-60°)	3233.0	10.3	B3/5000		
BH (60°-80°)	1444.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	240.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0
2.5°	4541.0	4523.7	4556.1	4560.4	4588.5	4599.3	4638.2	4698.7	4748.5	4805.7	4857.6
5°	4129.2	4117.3	4162.7	4195.2	4256.7	4282.7	4374.5	4503.1	4617.7	4747.4	4865.2
7.5°	3738.0	3731.5	3782.3	3855.8	3927.1	3962.8	4121.7	4308.6	4499.9	4709.5	4890.0
10°	3408.4	3406.3	3454.9	3527.3	3632.1	3672.1	3877.4	4123.8	4391.8	4680.4	4932.2
12.5°	3223.6	3231.2	3253.9	3314.4	3411.7	3451.7	3679.7	3969.3	4301.1	4670.6	4993.8
15°	3269.0	3280.9	3242.0	3239.8	3309.0	3340.3	3554.3	3859.1	4236.2	4686.9	5083.5
17.5°	3462.5	3464.6	3362.0	3297.1	3339.3	3355.5	3515.4	3796.4	4198.4	4723.6	5195.8
20°	3734.8	3729.4	3547.8	3439.8	3462.5	3466.8	3570.5	3797.5	4195.2	4787.4	5341.7
22.5°	4095.7	4055.7	3811.5	3664.5	3659.1	3652.7	3712.1	3877.4	4242.7	4891.1	5515.7
25°	4566.9	4529.1	4193.0	3992.0	3948.8	3932.5	3941.2	4048.2	4336.7	5002.4	5710.2
27.5°	5091.0	5025.1	4700.9	4416.7	4327.0	4304.3	4252.4	4289.2	4439.4	5109.4	5941.5
30°	5529.8	5494.1	5211.0	4873.8	4767.9	4735.5	4599.3	4559.3	4587.4	5255.3	6233.3
32.5°	5775.1	5751.3	5579.5	5307.2	5208.8	5163.4	4971.1	4891.1	4825.2	5485.5	6628.8
35°	6072.3	6057.1	5953.4	5755.6	5609.7	5562.2	5413.1	5329.9	5160.2	5802.1	7140.0
37.5°	6450.5	6434.3	6436.5	6276.5	6102.5	6058.2	5959.9	5872.3	5594.6	6218.2	7695.4
40°	6878.4	6847.1	6835.2	6827.7	6717.4	6692.6	6640.7	6521.8	6139.3	6715.3	8243.3
42.5°	7522.5	7411.2	7173.5	7263.2	7372.3	7359.3	7401.5	7230.7	6744.4	7303.2	8778.3
45°	8143.9	7961.3	7550.6	7570.1	7808.9	7881.3	8196.9	8075.8	7400.4	7947.2	9331.6
47.5°	8427.0	8288.7	7939.7	7940.7	8177.4	8327.6	9019.3	8932.8	8089.9	8678.8	10007.0
50°	8743.7	8605.4	8292.0	8409.8	8616.2	8776.1	9813.5	9769.2	8745.8	9479.6	10816.4
52.5°	9089.5	8855.0	8656.1	8866.9	9156.5	9342.4	10608.9	10487.9	9347.8	10285.8	11746.9
55°	9093.8	9030.1	9181.4	9335.9	9769.2	9997.3	11442.1	11122.2	9838.4	11077.9	12504.4
57.5°	9611.5	9507.7	9828.7	9900.0	10466.3	10723.5	12271.0	11674.5	10337.7	11685.3	12912.9
60°	10296.6	10208.0	10470.6	10658.6	11328.6	11672.3	13156.0	12241.8	10729.9	12143.5	12893.4
62.5°	11479.9	11379.4	11376.2	11639.9	12542.2	12942.1	14149.2	12798.3	10885.6	12234.2	12343.4
65°	13212.2	13052.3	12750.8	12876.2	14218.3	14617.1	15259.0	13201.4	10680.2	11747.9	10926.6
67.5°	14898.1	14892.7	14522.0	14779.2	16431.6	16751.4	16523.4	13241.4	10039.4	10054.5	8413.0
70°	16578.5	16600.1	16537.5	17432.2	19421.8	19754.6	17869.9	12704.3	8598.9	7261.0	5040.2
72.5°	17909.9	17904.5	18220.1	20527.3	23302.4	23227.9	19004.6	11076.8	6173.9	3919.6	2408.8
75°	17047.5	16859.5	17799.7	22059.7	25564.3	25200.1	18039.6	7726.8	3204.2	1784.2	1296.8
77.5°	11119.0	11297.3	12677.3	18223.3	22361.2	21918.1	13234.9	3605.1	1509.7	1170.4	940.2
80°	4026.6	4214.6	5936.1	10322.5	15406.0	15333.6	6517.5	1481.6	1021.2	884.0	685.1
82.5°	1385.4	1454.6	2341.8	4584.2	8698.3	9022.5	2452.0	841.8	742.4	626.8	469.0
85°	543.6	622.5	1070.9	2205.6	4387.5	4419.9	993.1	503.6	516.6	410.7	257.2
87.5°	206.4	250.7	512.2	1024.5	2003.6	1840.4	355.5	239.9	293.9	244.2	122.1
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°	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0	4890.0
2.5°	4897.6	4920.3	4967.8	5000.2	5034.8	5044.6	5048.9	5057.5	5066.2	5062.9	5064.0
5°	4927.8	4972.2	5048.9	5081.3	5096.4	5079.1	5045.6	5018.6	4999.2	4988.4	4985.1
7.5°	4977.6	5040.2	5122.4	5117.0	5082.4	5005.7	4919.2	4854.4	4800.3	4780.9	4770.1
10°	5043.5	5117.0	5174.2	5112.6	5012.1	4879.2	4749.5	4649.0	4568.0	4536.6	4531.2
12.5°	5127.8	5202.3	5213.1	5082.4	4916.0	4734.4	4558.3	4425.3	4304.3	4265.4	4256.7
15°	5236.9	5307.2	5240.2	5029.4	4797.1	4552.9	4324.8	4144.4	4016.8	3969.3	3952.0
17.5°	5351.5	5418.5	5245.6	4941.9	4641.5	4337.8	4051.4	3866.6	3720.7	3665.6	3659.1
20°	5488.7	5519.0	5222.9	4816.5	4427.5	4059.0	3757.5	3583.5	3505.7	3466.8	3462.5
22.5°	5658.4	5626.0	5171.0	4646.9	4156.2	3736.9	3491.6	3410.6	3391.1	3382.5	3385.7
25°	5837.8	5738.3	5094.3	4425.3	3813.7	3414.9	3297.1	3319.8	3345.7	3342.5	3342.5
27.5°	6035.5	5852.9	4976.5	4131.4	3434.4	3151.2	3165.3	3248.5	3287.4	3286.3	3285.2
30°	6289.5	5982.6	4826.3	3778.0	3079.9	2965.4	3050.7	3152.3	3205.3	3203.1	3204.2
32.5°	6601.8	6125.2	4622.0	3383.6	2823.8	2828.1	2926.4	3026.9	3088.5	3083.1	3084.2
35°	6967.1	6285.2	4345.4	2994.5	2654.1	2719.0	2796.8	2867.0	2925.4	2917.8	2910.2
37.5°	7364.7	6441.9	3977.9	2646.6	2515.8	2617.4	2682.2	2694.1	2721.1	2701.7	2687.6
40°	7743.0	6561.8	3504.6	2361.3	2376.4	2530.9	2573.1	2525.5	2476.9	2470.4	2451.0
42.5°	8072.6	6601.8	3025.9	2133.2	2229.4	2440.1	2466.1	2366.7	2279.1	2238.1	2220.8
45°	8420.6	6615.8	2579.6	1942.0	2087.8	2359.1	2387.2	2254.3	2131.1	2042.5	2013.3
47.5°	8875.5	6717.4	2232.7	1800.4	1979.8	2305.1	2345.0	2164.6	2004.6	1878.2	1851.2
50°	9471.0	6918.4	1950.6	1692.3	1909.5	2269.4	2314.8	2077.0	1900.9	1748.5	1721.5
52.5°	10132.3	7103.2	1722.6	1604.8	1841.5	2206.7	2275.9	2014.4	1803.6	1628.6	1599.4
55°	10594.9	6961.7	1538.9	1514.0	1752.8	2117.0	2221.9	1961.4	1664.2	1511.9	1485.9
57.5°	10683.5	6477.5	1399.5	1420.0	1645.9	2004.6	2138.6	1843.6	1588.6	1461.1	1434.0
60°	10441.4	5803.2	1295.7	1333.5	1531.3	1863.1	1983.0	1760.4	1516.2	1407.0	1384.3
62.5°	9833.0	5112.6	1219.0	1255.7	1424.3	1719.3	1885.8	1672.9	1442.7	1345.4	1322.7
65°	8604.3	4292.4	1145.5	1186.6	1324.9	1595.1	1798.2	1591.8	1370.3	1295.7	1274.1
67.5°	6494.8	3215.0	1076.3	1113.1	1236.3	1487.0	1703.1	1511.9	1300.0	1252.5	1226.6
70°	3824.5	2013.3	997.5	1036.4	1143.3	1374.6	1601.5	1424.3	1212.5	1190.9	1157.4
72.5°	1779.9	1211.4	907.8	945.6	1026.6	1224.4	1470.8	1309.8	1108.8	1061.2	1015.8
75°	1062.3	886.1	801.9	835.4	892.6	1064.5	1306.5	1193.1	1010.4	947.7	900.2
77.5°	794.3	677.6	685.1	720.8	767.3	931.5	1157.4	1101.2	934.8	886.1	853.7
80°	571.7	514.4	558.7	597.6	646.2	847.2	1108.8	1018.0	845.1	780.2	750.0
82.5°	381.5	369.6	420.4	460.4	507.9	741.3	1041.8	891.6	721.9	639.8	572.8
85°	210.7	222.6	283.1	300.4	341.5	522.0	853.7	716.5	543.6	437.7	418.2
87.5°	87.5	102.7	152.4	147.0	181.6	311.2	561.9	432.3	345.8	258.3	201.0
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)