

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: P647441

Luminaire Tested: **GALN-SA5D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30065.6 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

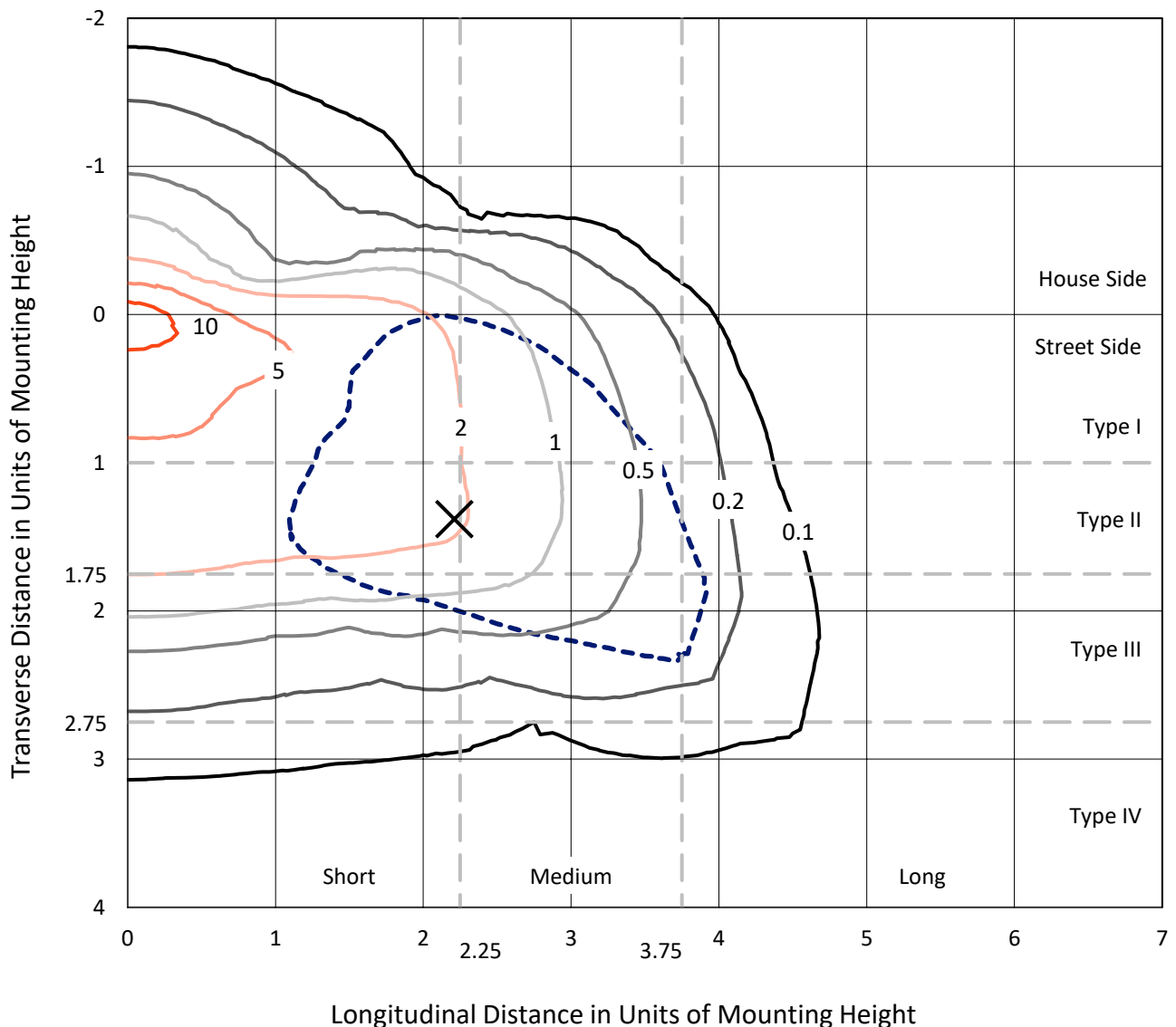
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

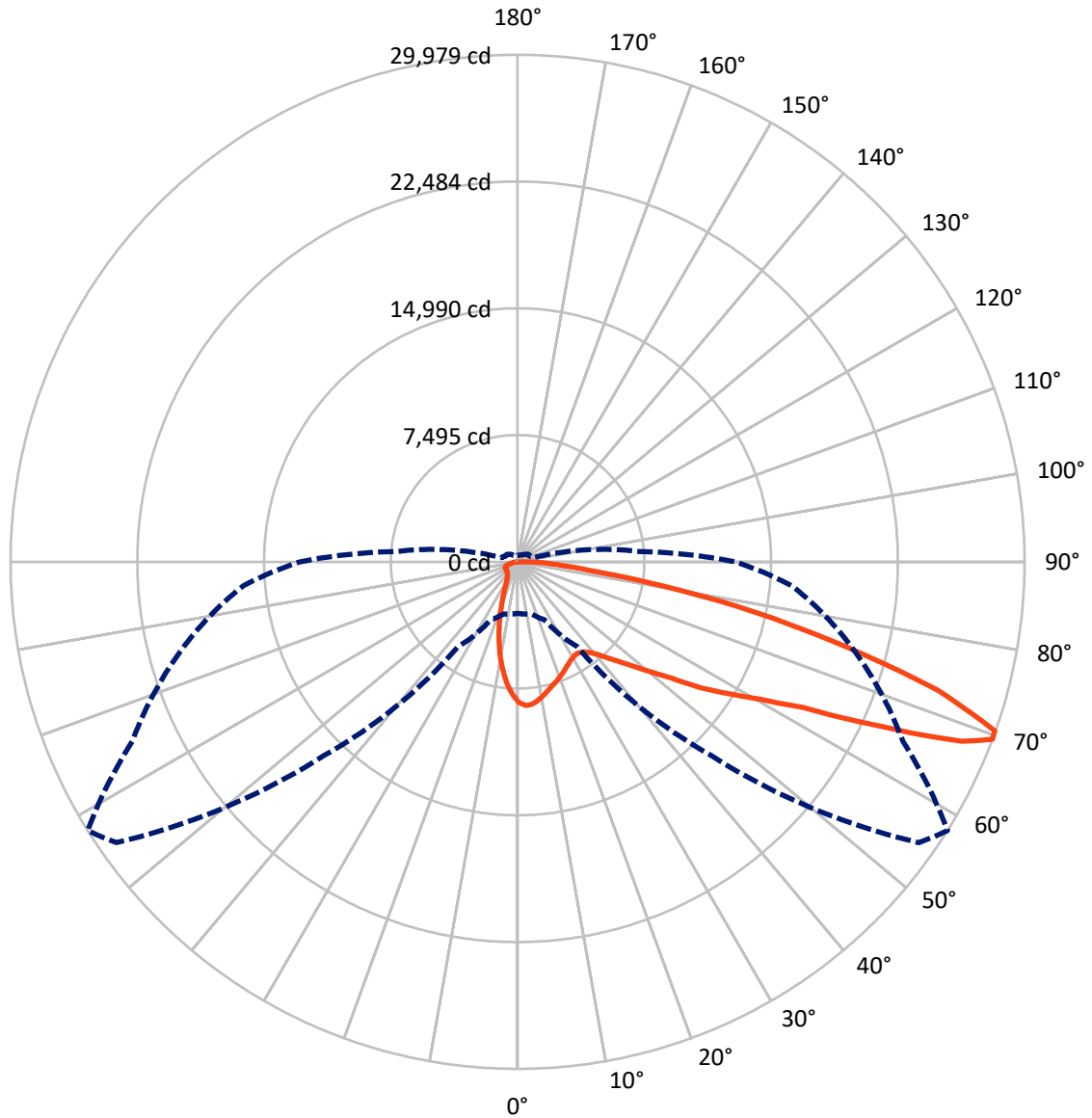
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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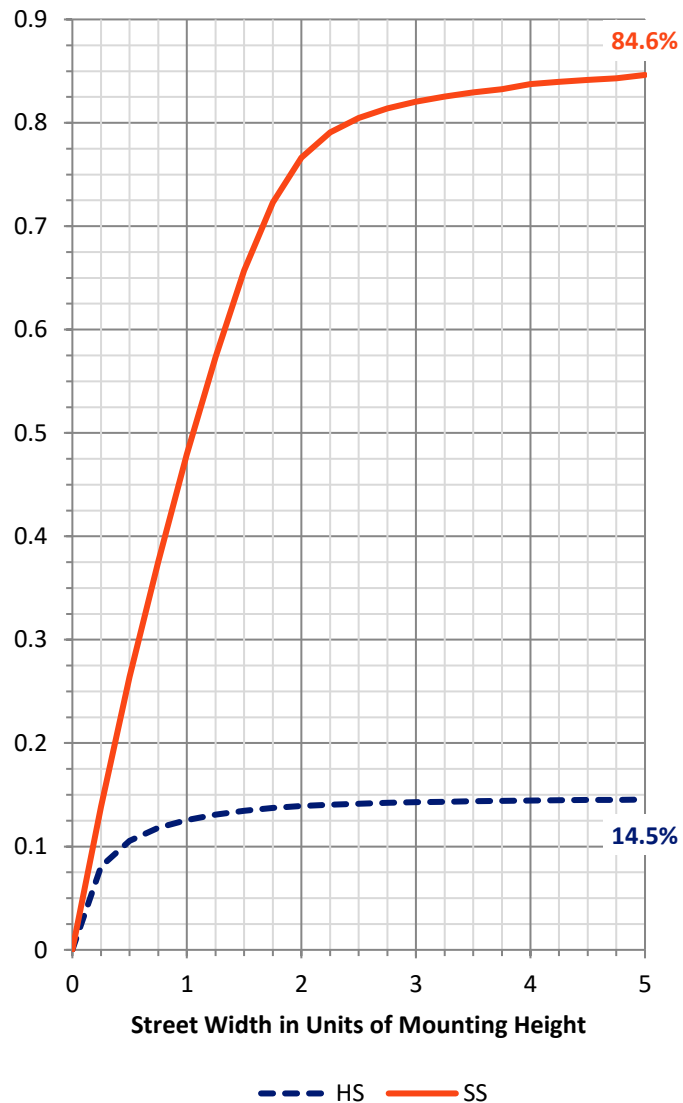
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4406.1	0.0	4406.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25659.5	0.0	25659.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	30065.6	0.0	30065.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.6	2.3
10°-20°	1549.3	5.2
20°-30°	2001.8	6.7
30°-40°	2599.9	8.6
40°-50°	3779.9	12.6
50°-60°	6031.5	20.1
60°-70°	8057.3	26.8
70°-80°	4644.7	15.4
80°-90°	695.7	2.3
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°	30065.6	100.0
0°-180°	30065.6	100.0

Coefficient of Utilization



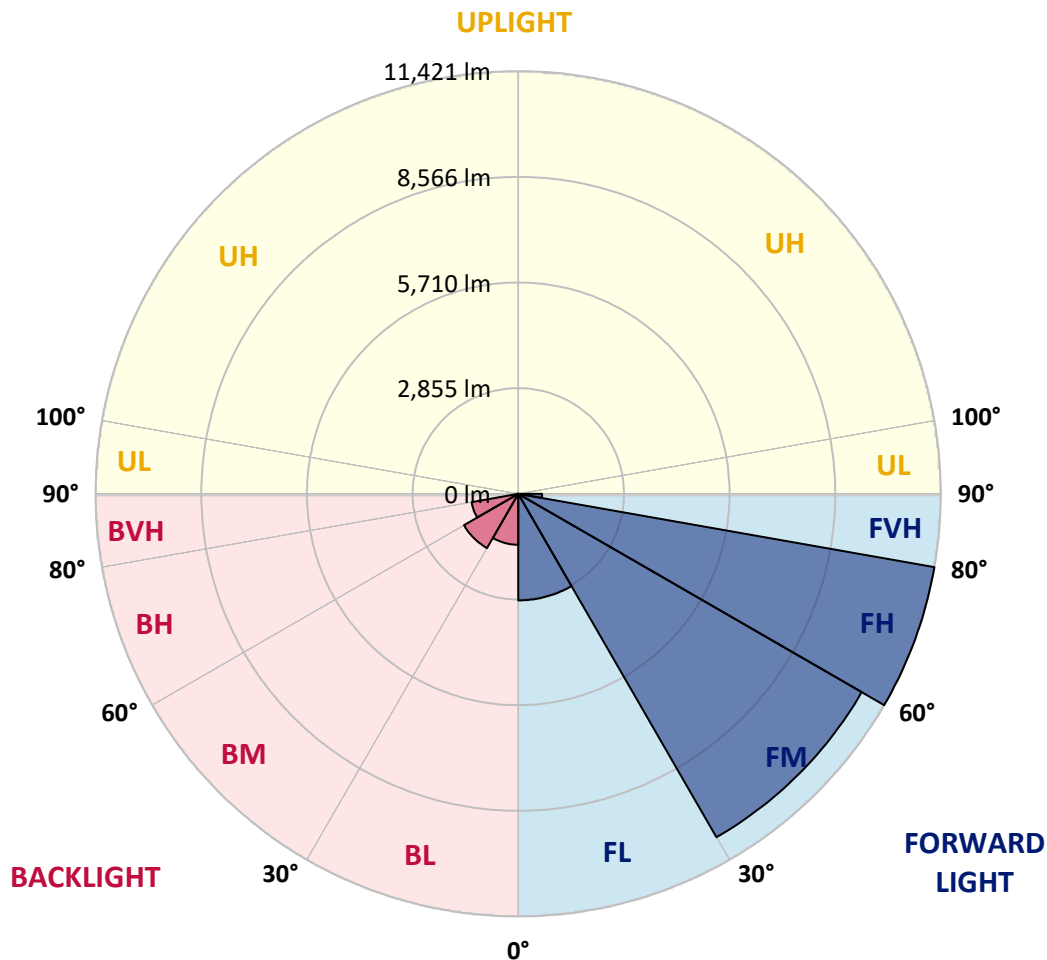
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2879.5	9.6			
FM (30°-60°)	10716.8	35.6			
FH (60°-80°)	11420.8	38.0			G4/12000
FVH (80°-90°)	642.4	2.1			G4/750
BL (0°-30°)	1377.2	4.6	B3/2500		
BM (30°-60°)	1694.4	5.6	B2/2500		
BH (60°-80°)	1281.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	53.3	0.2			G1/100
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°	58°	65°	75°	85°
0°	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4
2.5°	8616.9	8640.4	8633.7	8625.3	8611.9	8575.0	8514.7	8504.6	8466.0	8383.8	8281.6
5°	8484.4	8504.6	8506.3	8517.9	8534.8	8528.0	8484.4	8479.4	8422.4	8311.7	8140.7
7.5°	8030.1	8056.8	8115.6	8180.9	8239.7	8294.9	8308.4	8316.8	8281.6	8154.1	7926.1
10°	7518.6	7545.5	7572.3	7669.6	7813.7	7951.2	8065.2	8080.3	8088.7	7971.3	7693.0
12.5°	6951.9	7007.2	7064.2	7208.5	7401.2	7617.6	7818.8	7850.6	7907.6	7818.8	7491.8
15°	6470.6	6527.6	6609.9	6738.9	6972.0	7283.9	7567.2	7619.2	7731.6	7686.3	7304.0
17.5°	6137.0	6157.1	6214.1	6361.6	6613.1	6941.8	7320.7	7424.7	7604.1	7592.4	7143.0
20°	5873.8	5898.9	5934.0	6024.6	6286.2	6633.3	7091.1	7225.2	7468.3	7508.6	6983.7
22.5°	5763.0	5781.5	5776.4	5825.1	6002.8	6351.6	6858.0	7017.2	7347.6	7451.6	6836.2
25°	5769.8	5786.5	5761.4	5749.6	5855.3	6103.4	6614.9	6817.7	7250.3	7413.0	6702.0
27.5°	5882.1	5893.8	5846.9	5799.9	5808.3	5949.2	6413.6	6638.4	7168.2	7429.7	6589.7
30°	6033.0	6054.8	6024.6	5967.6	5905.5	5912.3	6284.5	6505.9	7129.6	7488.5	6536.0
32.5°	6227.5	6247.6	6234.2	6188.9	6108.5	6019.6	6252.6	6457.2	7133.0	7607.5	6524.3
35°	6432.1	6472.4	6494.1	6490.8	6425.4	6271.1	6378.4	6547.8	7213.5	7807.1	6593.0
37.5°	6663.5	6697.0	6790.9	6851.2	6790.9	6611.5	6661.8	6779.1	7391.2	8095.4	6744.0
40°	6888.1	6938.5	7076.0	7263.7	7240.2	7082.6	7094.4	7171.5	7704.7	8524.7	7039.1
42.5°	7122.9	7183.2	7423.1	7701.4	7756.7	7634.3	7666.2	7734.9	8150.8	9119.9	7545.5
45°	7424.7	7496.8	7791.9	8139.1	8357.0	8281.6	8372.1	8405.7	8747.7	9894.6	8212.8
47.5°	7813.7	7897.6	8261.4	8694.0	9002.5	9071.3	9228.9	9208.8	9487.1	10811.8	9078.0
50°	8469.3	8516.3	8860.0	9301.0	9725.3	10035.5	10206.5	10238.4	10404.3	11703.8	10045.5
52.5°	9249.0	9291.0	9539.1	9924.8	10456.3	11113.6	11536.2	11432.2	11472.4	12790.4	11177.3
55°	10126.0	10196.4	10354.0	10610.6	11299.7	12267.3	13115.6	13140.9	12694.8	13830.0	12262.2
57.5°	10805.1	10924.1	11194.1	11559.7	12433.3	13550.0	14690.2	14706.9	14136.8	14940.0	13459.4
60°	10463.0	10603.9	11220.9	12111.3	13920.5	15788.4	16571.5	16475.9	15540.3	16204.3	14919.9
62.5°	8987.5	9012.6	9909.7	11301.4	14378.3	18783.2	19371.7	18967.6	17413.2	17807.3	16403.9
65°	5816.7	5981.0	6692.0	8642.0	12874.2	20444.8	24277.9	23344.0	20039.0	19626.5	17646.3
67.5°	3672.1	3630.2	3925.3	4934.7	8855.0	18981.0	28464.8	28317.3	23473.1	20775.2	17349.5
69°	3045.0	3092.0	3192.5	3782.8	6093.4	16206.0	28959.4	29979.0	25138.1	20684.6	16271.4
70°	2761.6	2783.4	2889.0	3353.5	4701.7	13573.5	28147.9	29933.6	25792.0	20305.6	15490.0
72.5°	2191.5	2189.9	2370.9	2790.1	3514.5	7748.3	23112.6	25988.2	25060.9	18541.7	12798.8
75°	1665.0	1691.8	1891.4	2360.9	3237.9	4233.8	16128.9	20013.9	20015.6	14644.9	7986.4
77.5°	1200.6	1217.3	1450.4	1981.9	3050.0	3432.4	10743.1	14354.8	13494.6	6710.4	2510.1
80°	786.4	796.5	974.2	1569.4	2749.9	3237.9	6370.0	8786.3	6365.0	1780.7	830.0
82.5°	431.0	481.2	595.2	1016.1	2206.7	2991.4	3871.6	4446.8	2387.7	793.1	432.6
85°	216.3	229.7	335.4	593.6	1442.1	2474.9	2696.3	2550.4	1232.4	394.0	224.7
87.5°	63.7	80.5	139.1	229.7	585.2	1289.4	1500.7	1346.4	474.5	142.5	47.0
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°	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4	8308.4
2.5°	8239.7	8209.4	8075.3	7954.6	7843.9	7726.6	7627.6	7540.4	7548.8	7550.5	7461.6
5°	8051.8	7983.1	7728.2	7490.1	7288.9	7034.0	6816.1	6675.2	6604.8	6510.9	6544.4
7.5°	7797.0	7664.5	7310.7	6915.0	6544.4	6214.1	5855.3	5608.8	5451.2	5298.6	5318.7
10°	7533.7	7320.7	6806.0	6282.9	5803.3	5275.1	4817.3	4425.0	4133.2	4024.2	3952.1
12.5°	7263.7	6983.7	6329.8	5633.9	4971.6	4339.5	3690.6	3269.7	2947.8	2776.8	2798.5
15°	7017.2	6676.9	5833.5	4985.0	4124.8	3372.0	2724.8	2324.0	2099.3	2052.4	2079.2
17.5°	6789.2	6343.2	5369.0	4354.6	3350.1	2528.5	2047.3	1820.9	1730.4	1705.3	1703.6
20°	6554.5	6059.9	4847.6	3680.5	2610.8	1960.2	1680.1	1574.5	1557.7	1567.8	1569.4
22.5°	6316.4	5709.4	4311.0	3011.5	2079.2	1603.0	1468.8	1440.3	1453.8	1477.2	1480.6
25°	6096.8	5400.9	3794.5	2424.6	1660.0	1408.5	1343.1	1343.1	1373.3	1408.5	1410.2
27.5°	5915.6	5102.4	3279.8	1924.9	1390.1	1267.6	1245.8	1257.6	1299.5	1326.3	1328.0
30°	5766.4	4824.1	2793.5	1542.6	1222.3	1155.3	1150.2	1170.4	1200.6	1225.7	1227.4
32.5°	5654.0	4579.2	2339.1	1296.2	1106.7	1069.8	1068.1	1083.2	1100.0	1106.7	1113.3
35°	5610.4	4376.3	1923.3	1140.2	1029.6	1006.1	1006.1	1004.4	1011.1	1014.5	1017.8
37.5°	5645.7	4220.4	1601.3	1039.6	972.5	955.7	945.7	935.6	932.3	932.3	934.0
40°	5794.9	4138.2	1361.6	974.2	932.3	907.1	888.7	877.0	865.2	868.6	871.9
42.5°	6111.8	4153.3	1198.9	930.6	897.1	861.8	835.0	821.6	813.2	823.3	821.6
45°	6616.5	4304.2	1094.9	900.4	861.8	816.6	791.5	778.0	778.0	793.1	798.1
47.5°	7322.5	4592.7	1039.6	877.0	835.0	781.4	756.2	746.2	749.5	774.7	776.3
50°	8184.3	5094.0	1029.6	865.2	821.6	756.2	727.7	717.6	726.1	752.9	756.2
52.5°	9135.0	5739.5	1078.2	866.9	809.9	741.1	704.2	689.1	697.5	719.3	726.1
55°	10261.8	6547.8	1203.9	873.6	793.1	732.7	687.5	654.0	664.0	679.1	680.7
57.5°	11412.1	7567.2	1425.2	875.2	779.7	717.6	659.0	615.4	615.4	625.5	630.5
60°	12817.2	8677.3	1717.0	877.0	781.4	695.9	620.4	571.7	565.1	570.1	571.7
62.5°	14212.3	9606.2	1765.7	871.9	798.1	674.1	578.5	528.2	516.5	514.7	511.4
65°	14827.7	9433.5	1447.1	848.5	816.6	660.6	545.0	486.2	466.1	459.5	459.5
67.5°	13825.0	7979.7	1088.2	816.6	804.8	647.2	513.1	451.1	427.6	414.1	414.1
69°	12882.6	7097.7	977.6	794.8	774.7	625.5	493.0	432.6	404.1	389.0	384.0
70°	12154.9	6490.8	930.6	776.3	746.2	600.2	477.9	419.2	387.4	370.6	367.2
72.5°	9700.1	5092.3	814.9	706.0	635.5	504.7	424.2	377.2	347.1	328.6	323.6
75°	5590.3	2760.0	675.7	613.7	511.4	392.4	358.8	328.6	305.1	288.4	283.4
77.5°	1720.3	1066.4	489.6	484.6	375.6	303.5	286.7	275.0	258.2	239.8	236.4
80°	724.4	543.2	332.0	327.0	249.9	211.3	206.2	204.6	197.9	182.8	177.7
82.5°	397.4	306.9	231.4	201.2	150.9	122.4	127.5	129.1	124.1	109.0	98.9
85°	194.5	167.6	112.4	90.5	68.7	43.6	41.9	50.3	47.0	33.5	36.9
87.5°	38.6	47.0	30.1	13.4	6.7	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)