

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: P652006

Luminaire Tested: **GALN-SA7A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652006
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-SA7A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 26551.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

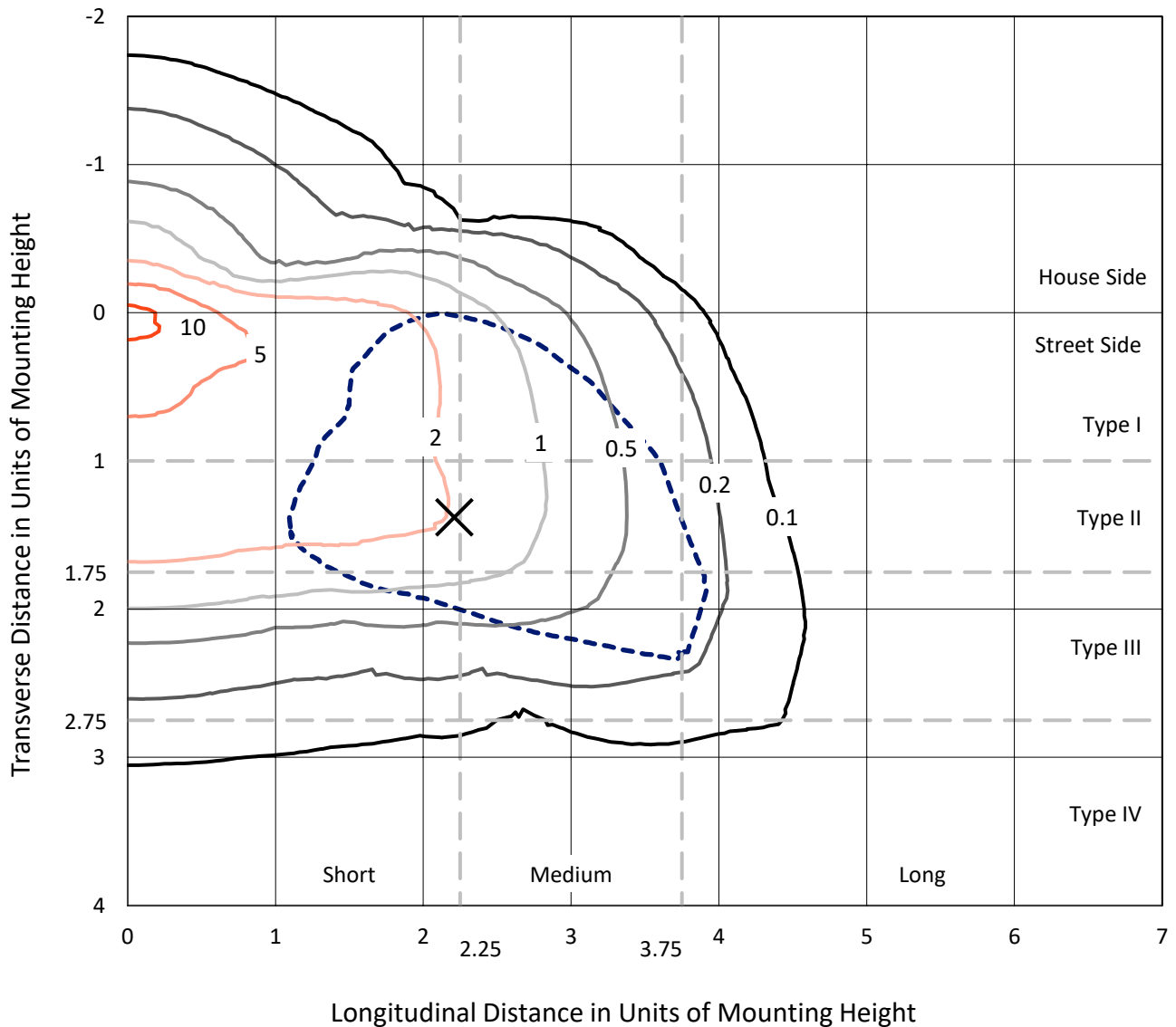
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

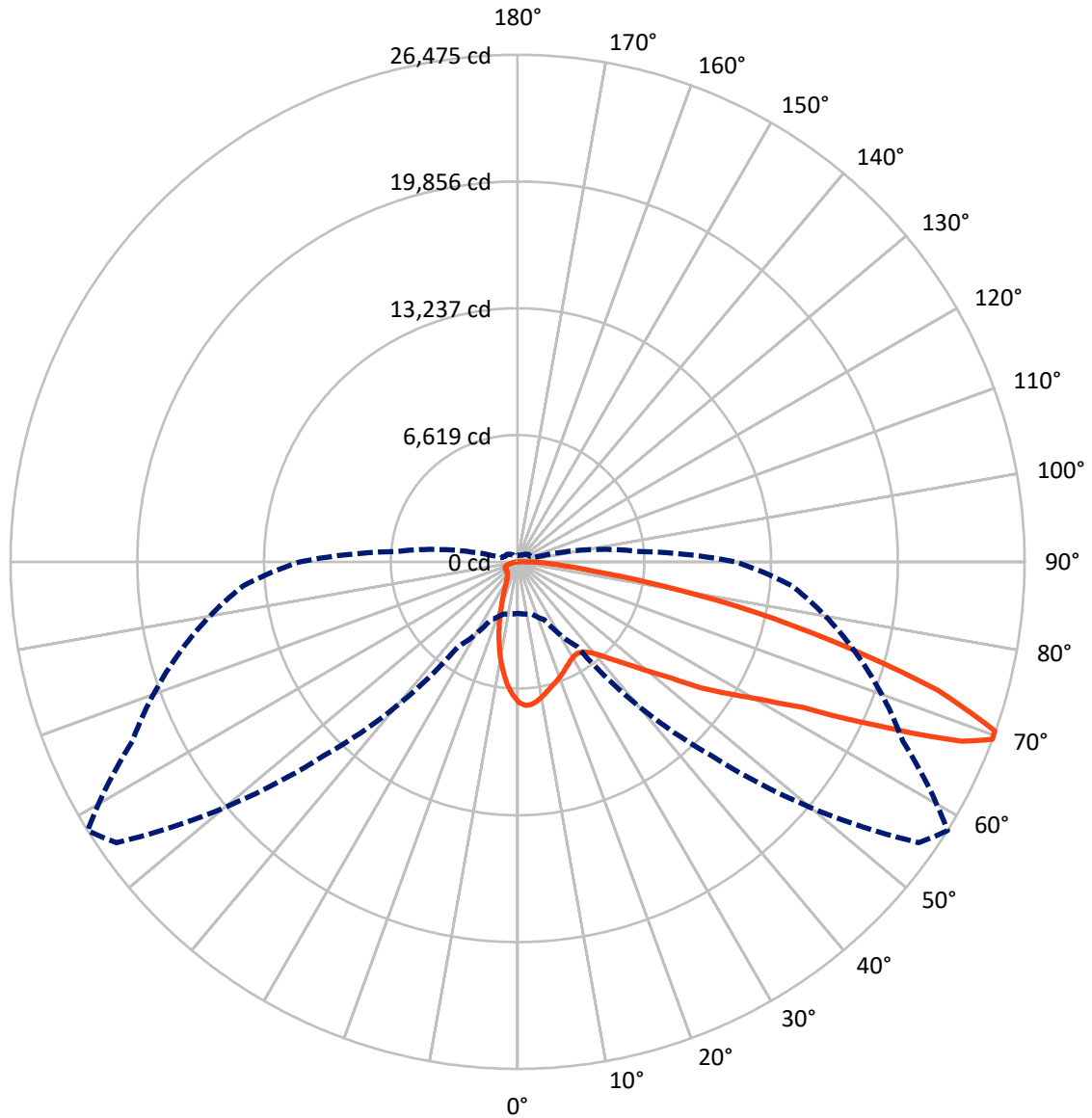
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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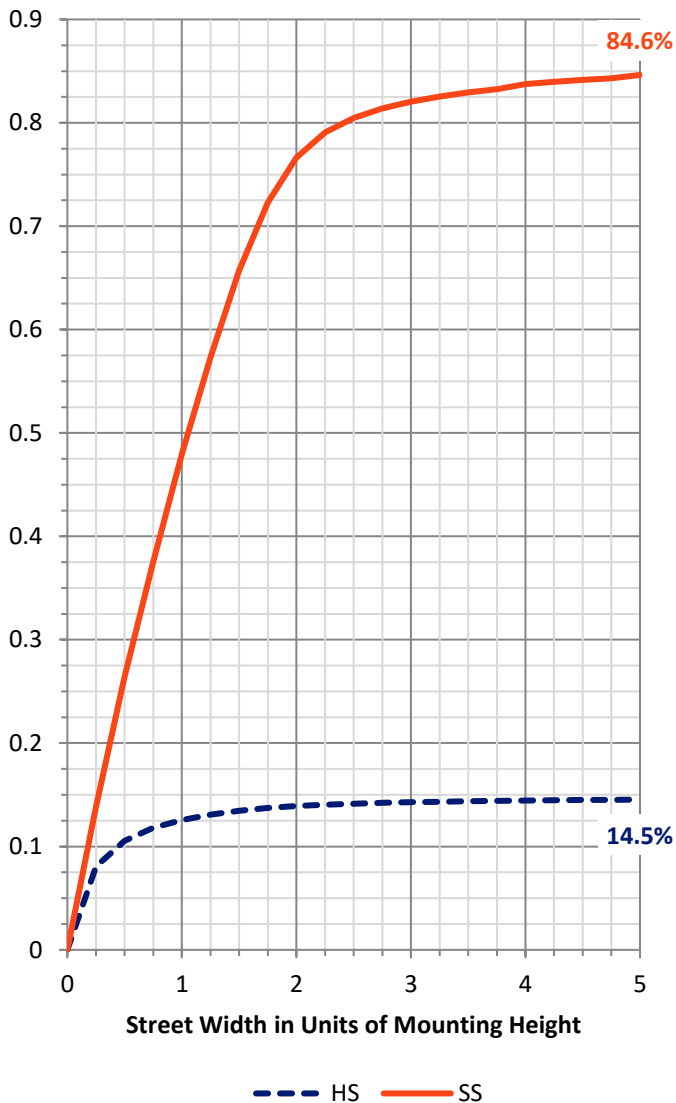
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3891.1	0.0	3891.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22660.1	0.0	22660.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	26551.2	0.0	26551.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.1	2.3
10°-20°	1368.2	5.2
20°-30°	1767.8	6.7
30°-40°	2296.0	8.6
40°-50°	3338.1	12.6
50°-60°	5326.4	20.1
60°-70°	7115.5	26.8
70°-80°	4101.8	15.4
80°-90°	614.4	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°	26551.2	100.0
0°-180°	26551.2	100.0



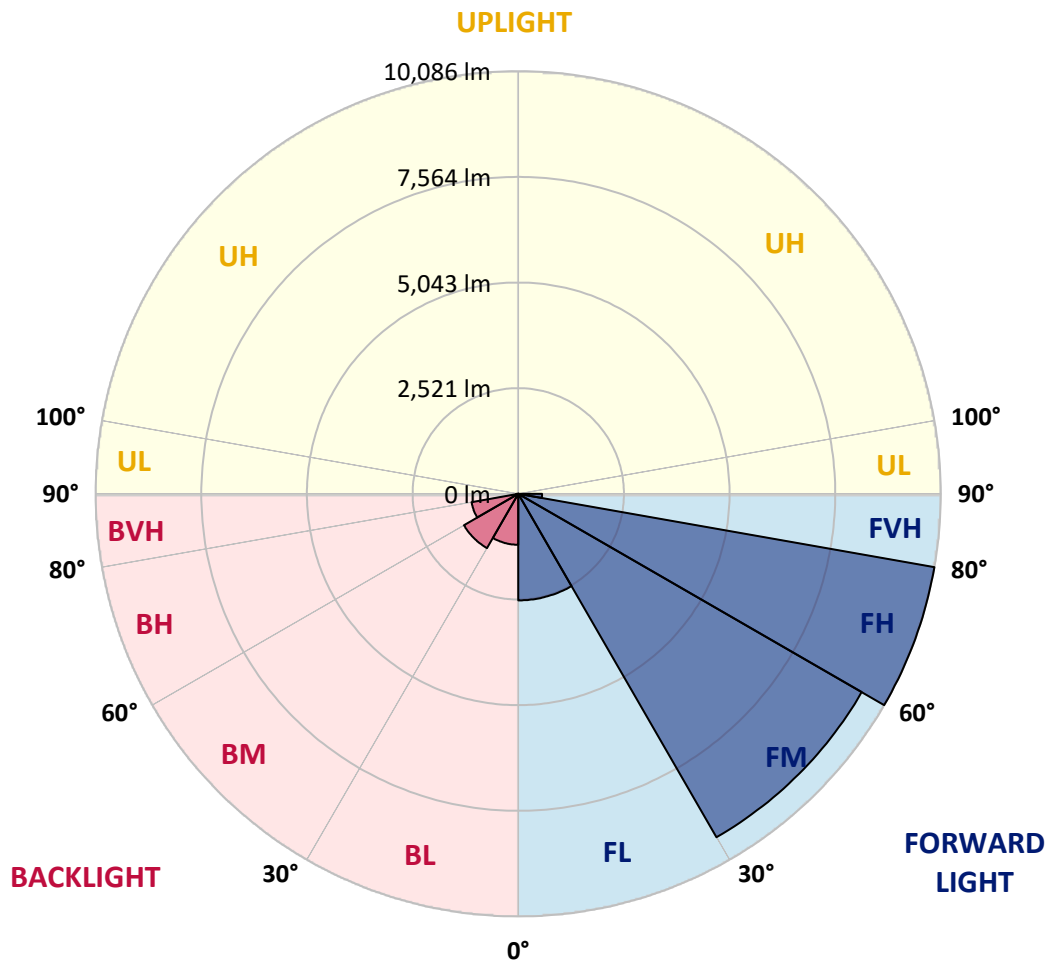
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2542.9	9.6			
FM (30°-60°)	9464.1	35.6			
FH (60°-80°)	10085.8	38.0			G4/12000
FVH (80°-90°)	567.3	2.1			G4/750
BL (0°-30°)	1216.2	4.6	B3/2500		
BM (30°-60°)	1496.4	5.6	B2/2500		
BH (60°-80°)	1131.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.1	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°	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2
2.5°	7609.6	7630.4	7624.5	7617.1	7605.2	7572.6	7519.3	7510.5	7476.4	7403.8	7313.5
5°	7492.7	7510.5	7511.9	7522.3	7537.1	7531.2	7492.7	7488.3	7437.9	7340.2	7189.1
7.5°	7091.4	7115.1	7166.9	7224.7	7276.5	7325.4	7337.2	7344.6	7313.5	7201.0	6999.6
10°	6639.8	6663.4	6687.1	6773.0	6900.4	7021.8	7122.5	7135.8	7143.2	7039.6	6793.8
12.5°	6139.3	6188.2	6238.5	6365.8	6536.1	6727.2	6904.8	6933.0	6983.3	6904.8	6616.1
15°	5714.3	5764.6	5837.2	5951.2	6157.0	6432.5	6682.7	6728.6	6827.8	6787.8	6450.2
17.5°	5419.6	5437.4	5487.7	5618.0	5840.2	6130.4	6465.0	6556.9	6715.3	6704.9	6308.1
20°	5187.1	5209.3	5240.4	5320.4	5551.4	5857.9	6262.2	6380.6	6595.4	6630.9	6167.4
22.5°	5089.4	5105.7	5101.3	5144.1	5301.2	5609.1	6056.4	6197.0	6488.7	6580.5	6037.1
25°	5095.3	5110.2	5087.9	5077.5	5170.8	5390.0	5841.6	6020.8	6402.9	6546.5	5918.6
27.5°	5194.5	5204.9	5163.4	5121.9	5129.3	5253.7	5664.0	5862.4	6330.3	6561.3	5819.4
30°	5327.8	5347.1	5320.4	5270.0	5215.3	5221.2	5549.9	5745.4	6296.2	6613.1	5772.0
32.5°	5499.6	5517.3	5505.5	5465.5	5394.4	5316.0	5521.8	5702.4	6299.2	6718.2	5761.7
35°	5680.2	5715.8	5735.0	5732.1	5674.3	5538.1	5632.8	5782.4	6370.2	6894.4	5822.4
37.5°	5884.6	5914.2	5997.1	6050.4	5997.1	5838.6	5883.0	5986.7	6527.3	7149.2	5955.6
40°	6083.0	6127.4	6248.8	6414.6	6394.0	6254.8	6265.1	6333.2	6804.1	7528.2	6216.3
42.5°	6290.3	6343.6	6555.3	6801.2	6850.0	6742.0	6770.0	6830.8	7198.0	8053.9	6663.4
45°	6556.9	6620.5	6881.1	7187.6	7380.1	7313.5	7393.5	7423.1	7725.2	8738.0	7252.8
47.5°	6900.4	6974.4	7295.8	7677.7	7950.2	8010.9	8150.1	8132.4	8378.2	9548.0	8016.8
50°	7479.3	7520.8	7824.4	8213.8	8588.5	8862.4	9013.4	9041.6	9188.2	10335.7	8871.3
52.5°	8167.9	8205.0	8424.0	8764.6	9234.1	9814.6	10187.7	10095.9	10131.4	11295.3	9870.8
55°	8942.4	9004.5	9143.8	9370.3	9978.9	10833.3	11582.6	11604.8	11210.9	12213.3	10828.9
57.5°	9542.1	9647.2	9885.6	10208.4	10979.9	11966.1	12973.0	12987.8	12484.3	13193.6	11886.1
60°	9240.0	9364.4	9909.3	10695.6	12293.3	13942.9	14634.4	14550.1	13723.8	14310.1	13175.9
62.5°	7936.9	7959.1	8751.4	9980.4	12697.6	16587.5	17107.3	16750.4	15377.8	15725.8	14486.3
65°	5136.7	5281.9	5909.7	7631.9	11369.3	18055.0	21440.0	20615.3	17696.7	17332.3	15583.6
67.5°	3242.9	3205.9	3466.4	4357.9	7820.0	16762.3	25137.5	25007.2	20729.2	18346.7	15321.5
69°	2689.1	2730.6	2819.4	3340.6	5381.1	14311.6	25574.3	26474.6	22199.6	18266.8	14369.3
70°	2438.8	2458.1	2551.3	2961.5	4152.1	11986.8	24857.6	26434.6	22777.1	17932.1	13679.3
72.5°	1935.4	1933.9	2093.8	2464.0	3103.7	6842.6	20410.9	22950.4	22131.5	16374.4	11302.7
75°	1470.4	1494.1	1670.3	2084.9	2859.4	3738.9	14243.5	17674.5	17675.9	12933.0	7052.9
77.5°	1060.2	1075.1	1280.8	1750.3	2693.6	3031.1	9487.2	12676.8	11917.2	5926.0	2216.7
80°	694.5	703.3	860.3	1386.0	2428.5	2859.4	5625.4	7759.2	5621.0	1572.6	733.0
82.5°	380.6	425.0	525.7	897.3	1948.7	2641.7	3419.1	3927.0	2108.6	700.4	382.1
85°	191.0	202.8	296.1	524.2	1273.4	2185.6	2381.0	2252.3	1088.3	348.0	198.4
87.5°	56.3	71.1	122.9	202.8	516.8	1138.7	1325.2	1189.1	419.1	125.9	41.5
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°	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2	7337.2
2.5°	7276.5	7249.8	7131.3	7024.8	6927.1	6823.4	6736.0	6659.0	6666.4	6667.9	6589.4
5°	7110.7	7049.9	6824.9	6614.5	6436.9	6211.8	6019.3	5894.9	5832.8	5749.8	5779.4
7.5°	6885.6	6768.6	6456.1	6106.7	5779.4	5487.7	5170.8	4953.2	4814.0	4679.2	4697.0
10°	6653.1	6465.0	6010.5	5548.4	5125.0	4658.5	4254.3	3907.7	3650.1	3553.8	3490.2
12.5°	6414.6	6167.4	5589.9	4975.4	4390.4	3832.2	3259.1	2887.5	2603.1	2452.2	2471.4
15°	6197.0	5896.4	5151.6	4402.3	3642.7	2977.8	2406.3	2052.4	1853.9	1812.4	1836.2
17.5°	5995.7	5601.7	4741.4	3845.6	2958.6	2233.0	1808.0	1608.1	1528.2	1506.0	1504.5
20°	5788.4	5351.5	4280.9	3250.3	2305.5	1731.0	1483.7	1390.4	1375.6	1384.5	1386.0
22.5°	5578.0	5042.0	3807.0	2659.5	1836.2	1415.6	1297.2	1272.0	1283.8	1304.6	1307.5
25°	5384.1	4769.6	3351.0	2141.2	1465.9	1243.8	1186.1	1186.1	1212.7	1243.8	1245.4
27.5°	5224.1	4506.0	2896.4	1699.9	1227.5	1119.5	1100.2	1110.5	1147.6	1171.3	1172.8
30°	5092.3	4260.2	2467.0	1362.3	1079.5	1020.2	1015.8	1033.6	1060.2	1082.5	1083.9
32.5°	4993.2	4043.9	2065.7	1144.6	977.3	944.7	943.3	956.6	971.4	977.3	983.2
35°	4954.7	3864.8	1698.4	1006.9	909.2	888.4	888.4	887.0	892.9	895.8	898.9
37.5°	4985.8	3727.1	1414.1	918.0	858.8	844.0	835.1	826.3	823.3	823.3	824.8
40°	5117.6	3654.6	1202.4	860.3	823.3	801.1	784.8	774.5	764.0	767.1	770.0
42.5°	5397.4	3667.9	1058.7	821.8	792.2	761.1	737.4	725.6	718.2	727.0	725.6
45°	5843.1	3801.2	967.0	795.2	761.1	721.2	699.0	687.1	687.1	700.4	704.8
47.5°	6466.5	4055.8	918.0	774.5	737.4	690.0	667.8	658.9	661.9	684.2	685.6
50°	7227.6	4498.6	909.2	764.0	725.6	667.8	642.7	633.8	641.2	664.9	667.8
52.5°	8067.2	5068.7	952.1	765.6	715.2	654.5	621.9	608.6	616.0	635.2	641.2
55°	9062.3	5782.4	1063.2	771.4	700.4	647.1	607.1	577.5	586.3	599.7	601.2
57.5°	10078.1	6682.7	1258.6	773.0	688.5	633.8	582.0	543.5	543.5	552.3	556.7
60°	11319.0	7662.9	1516.3	774.5	690.0	614.5	547.9	504.9	499.0	503.4	504.9
62.5°	12551.0	8483.3	1559.2	770.0	704.8	595.3	510.8	466.4	456.1	454.6	451.6
65°	13094.5	8330.8	1277.9	749.2	721.2	583.4	481.2	429.4	411.7	405.7	405.7
67.5°	12209.0	7047.0	961.0	721.2	710.7	571.5	453.1	398.3	377.6	365.8	365.8
69°	11376.7	6268.1	863.3	701.9	684.2	552.3	435.4	382.1	356.8	343.5	339.1
70°	10734.1	5732.1	821.8	685.6	658.9	530.1	422.0	370.2	342.0	327.2	324.3
72.5°	8566.3	4497.1	719.6	623.4	561.2	445.7	374.7	333.2	306.5	290.2	285.8
75°	4936.8	2437.3	596.8	541.9	451.6	346.5	316.9	290.2	269.5	254.7	250.3
77.5°	1519.3	941.8	432.4	427.9	331.7	268.0	253.2	242.9	228.1	211.8	208.8
80°	639.7	479.8	293.2	288.7	220.6	186.6	182.2	180.6	174.8	161.4	156.9
82.5°	350.9	271.0	204.4	177.7	133.3	108.1	112.5	114.0	109.6	96.2	87.4
85°	171.7	148.1	99.2	80.0	60.7	38.5	37.0	44.4	41.5	29.6	32.5
87.5°	34.1	41.5	26.7	11.9	5.9	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)