

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: P648543

Luminaire Tested: **GALN-SA7B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30375.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

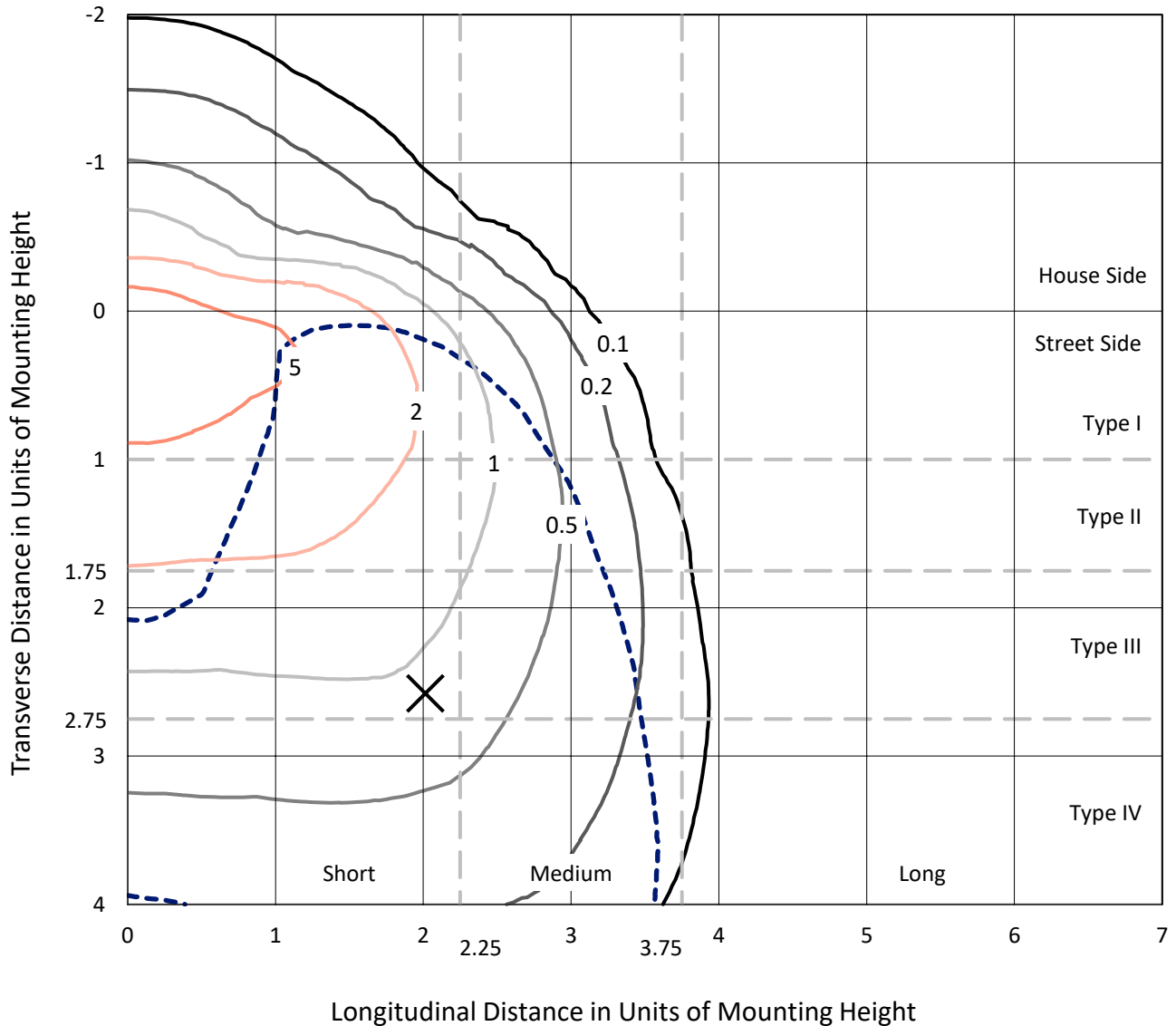
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

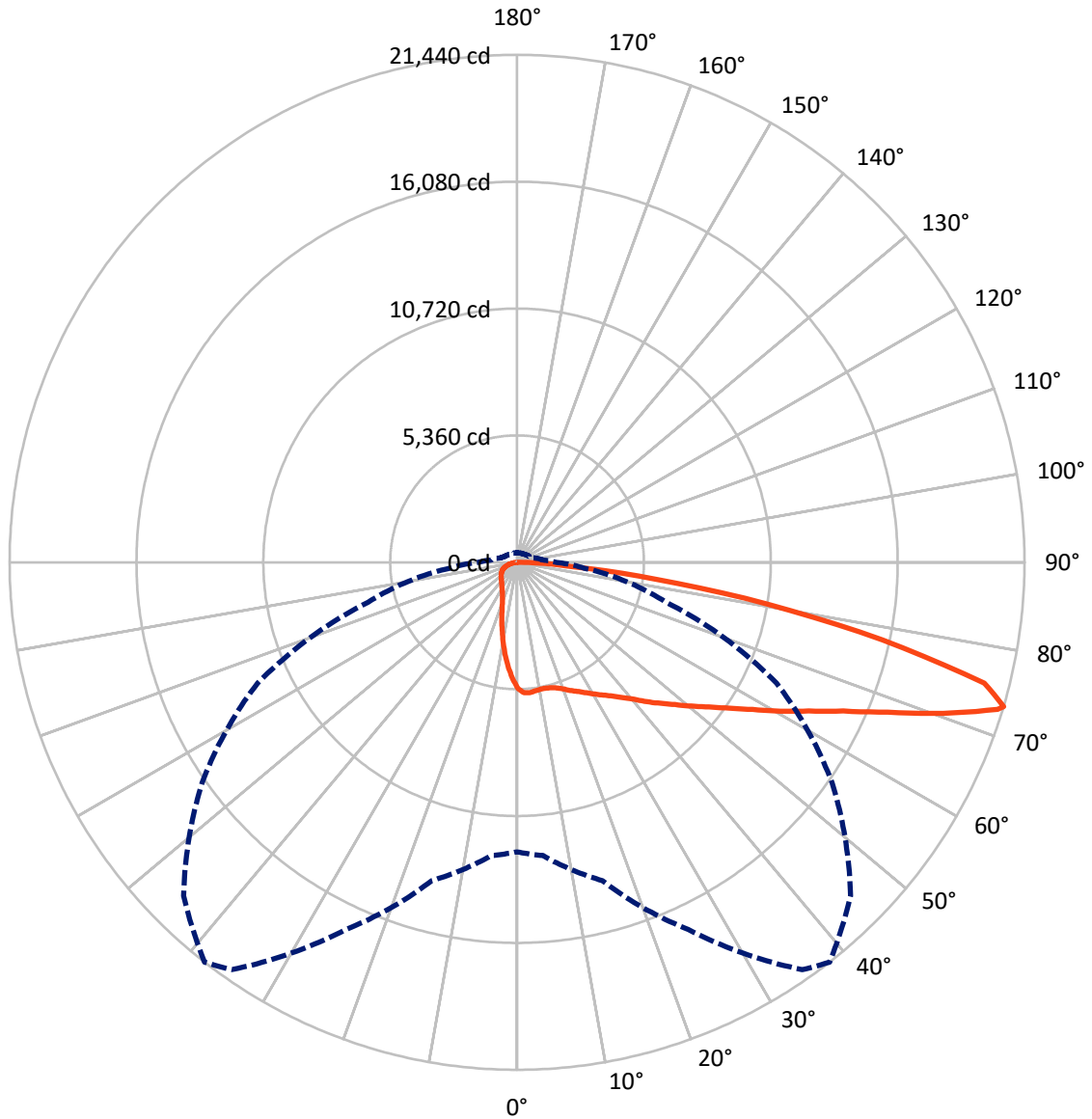
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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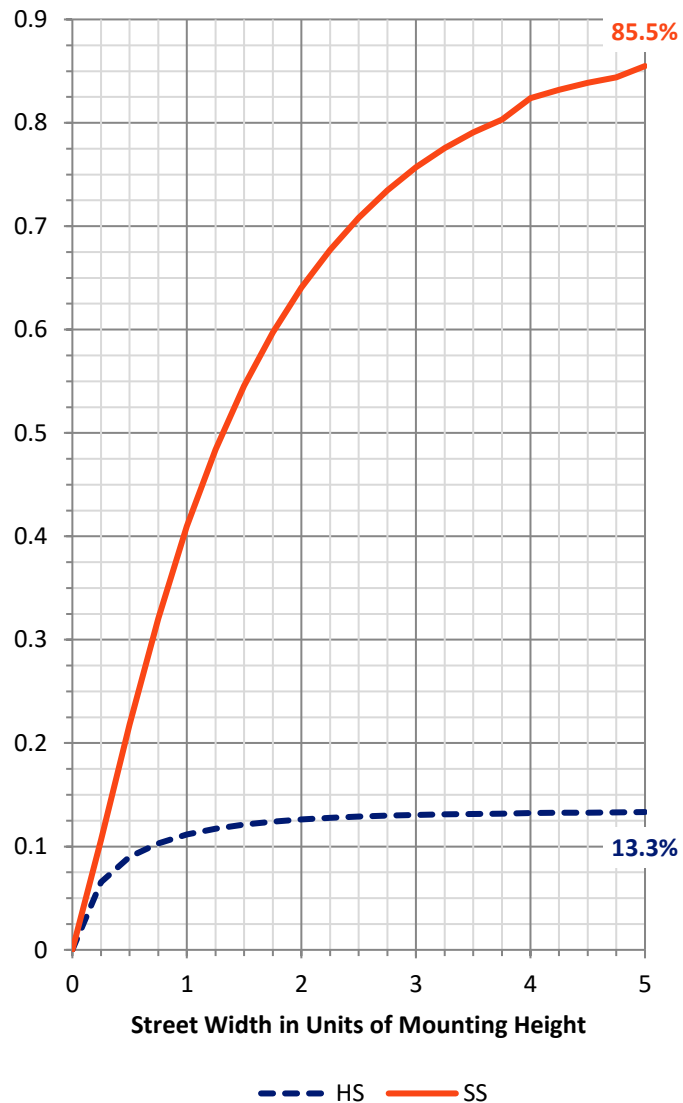
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.4	0.0	4083.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26292.3	0.0	26292.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	30375.7	0.0	30375.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.8	1.5
10°-20°	1194.5	3.9
20°-30°	1860.1	6.1
30°-40°	2728.3	9.0
40°-50°	4047.1	13.3
50°-60°	5734.0	18.9
60°-70°	7273.7	23.9
70°-80°	6054.8	19.9
80°-90°	1017.3	3.3
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°	30375.7	100.0
0°-180°	30375.7	100.0

Coefficient of Utilization



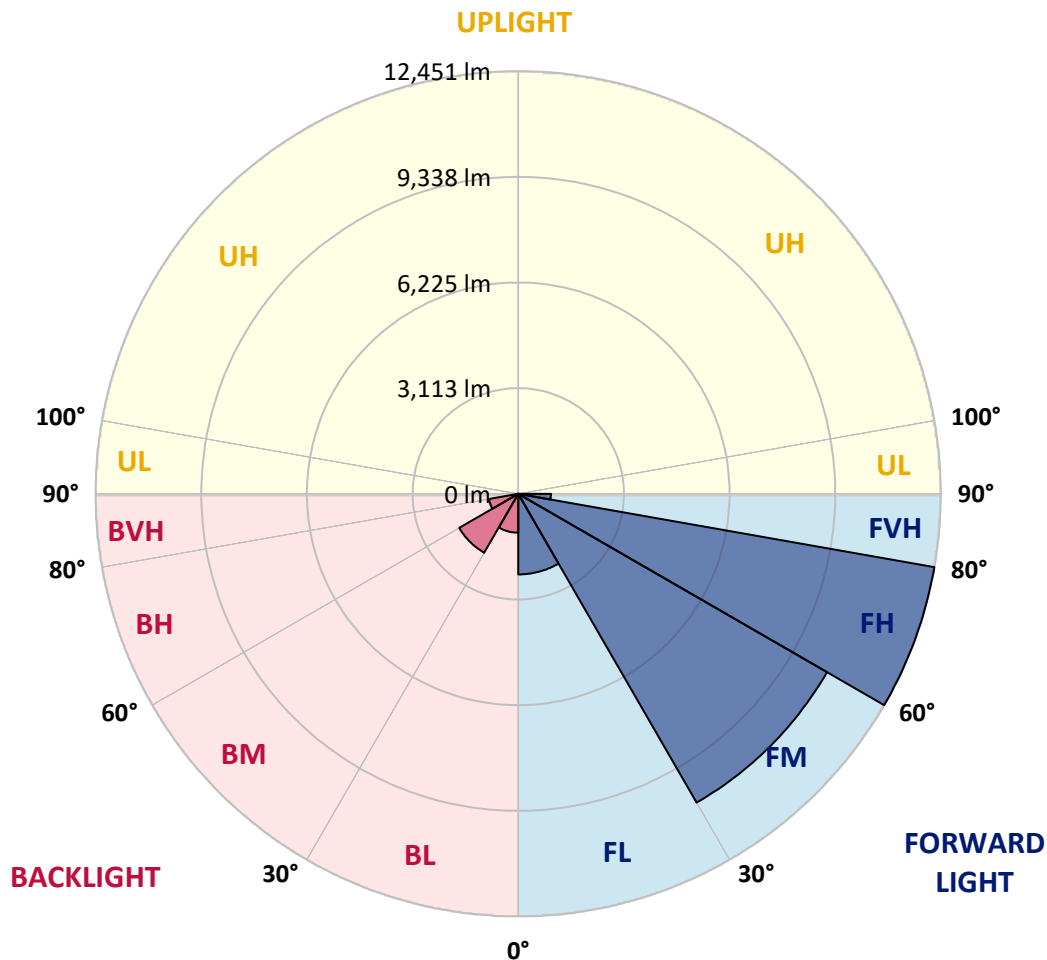
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.6	7.8			
FM (30°-60°)	10504.7	34.6			
FH (60°-80°)	12450.9	41.0			G5
FVH (80°-90°)	962.1	3.2			G5
BL (0°-30°)	1145.8	3.8	B3/2500		
BM (30°-60°)	2004.7	6.6	B2/2500		
BH (60°-80°)	877.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5
2.5°	5550.9	5578.3	5564.6	5545.8	5533.8	5521.8	5504.6	5454.8	5415.4	5372.6	5305.6
5°	5592.1	5609.3	5597.2	5573.2	5545.8	5533.8	5501.2	5436.0	5372.6	5300.4	5201.0
7.5°	5568.1	5575.0	5561.2	5532.1	5508.0	5485.7	5448.0	5375.9	5298.8	5211.3	5080.9
10°	5482.3	5508.0	5508.0	5484.1	5460.0	5448.0	5410.3	5341.6	5271.3	5171.8	5017.5
12.5°	5411.9	5439.4	5461.7	5454.8	5453.1	5453.1	5424.0	5372.6	5290.2	5195.8	5012.3
15°	5363.9	5396.5	5444.6	5472.0	5489.1	5494.3	5482.3	5437.7	5353.7	5243.8	5032.9
17.5°	5353.7	5393.1	5480.6	5540.6	5585.2	5583.5	5580.0	5518.3	5425.7	5312.5	5058.6
20°	5400.0	5451.4	5573.2	5667.6	5732.7	5720.8	5701.9	5621.2	5513.2	5386.3	5082.6
22.5°	5538.9	5592.1	5725.9	5828.8	5892.3	5892.3	5835.7	5729.3	5614.4	5472.0	5115.2
25°	5737.9	5796.2	5938.6	6043.2	6072.4	6050.1	5993.5	5864.8	5732.7	5595.6	5183.9
27.5°	5981.5	6051.8	6183.9	6271.4	6262.8	6245.7	6187.3	6022.7	5890.6	5765.3	5300.4
30°	6285.1	6336.6	6473.8	6494.4	6463.5	6460.1	6377.7	6213.0	6089.5	5993.5	5466.8
32.5°	6571.6	6617.8	6727.7	6736.2	6681.3	6688.2	6611.0	6460.1	6389.7	6355.5	5746.4
35°	6875.2	6899.2	6993.5	6983.3	6947.2	6942.1	6911.2	6767.1	6789.4	6851.2	6142.7
37.5°	7129.1	7177.1	7230.2	7238.8	7237.1	7254.3	7274.9	7206.3	7334.9	7528.7	6662.5
40°	7362.3	7403.5	7482.4	7509.8	7576.8	7611.1	7681.4	7683.1	7979.9	8298.9	7302.3
42.5°	7520.2	7590.5	7738.0	7787.7	7950.7	8053.6	8158.2	8269.7	8700.3	9110.3	8057.1
45°	7657.3	7750.0	7995.3	8149.7	8371.0	8496.2	8717.5	8950.8	9570.0	10106.9	8823.9
47.5°	7864.9	7947.3	8228.6	8501.3	8835.8	8979.9	9311.0	9659.2	10468.9	11057.2	9558.0
50°	8153.1	8202.9	8489.4	8933.6	9360.8	9546.0	9983.4	10486.0	11429.5	11995.6	10203.0
52.5°	8521.9	8542.5	8770.6	9362.5	9925.1	10155.0	10734.8	11321.4	12270.0	12810.3	10714.2
55°	8957.6	8923.3	9101.7	9817.0	10570.1	10870.2	11493.0	12167.0	13215.2	13469.0	11086.4
57.5°	9388.2	9335.0	9477.4	10369.3	11366.0	11727.9	12453.5	13038.5	14059.2	14084.8	11347.2
60°	9844.5	9805.0	9974.9	11017.7	12342.0	12770.9	13441.6	13942.5	14875.7	14513.7	11388.3
62.5°	10312.7	10249.3	10491.2	11746.8	13441.6	13831.0	14481.1	14903.1	15676.7	14673.2	10992.1
65°	10767.3	10738.1	11112.1	12613.0	14693.8	15136.3	15767.6	16054.1	16318.3	14433.0	10009.2
67.5°	11251.1	11309.4	11906.4	13769.2	16326.8	16882.6	17563.6	17294.3	16501.8	13295.8	8429.3
70°	11988.7	12026.4	12949.3	15283.9	18431.6	19102.3	19431.6	17735.1	15616.7	11136.1	6336.6
72.5°	12306.0	12472.4	13880.7	16874.0	20822.8	21232.8	20059.4	16752.2	13009.3	7564.7	3329.6
73°	12235.7	12434.7	13923.6	17115.9	21009.8	21440.3	19925.6	16246.2	12093.3	6515.0	2854.3
75°	11359.1	11604.5	13366.1	16913.5	20646.1	20388.9	17774.6	13846.4	8172.0	2962.4	1300.2
77.5°	8962.8	9033.1	10590.6	13657.7	16258.2	15781.4	13302.6	8654.0	3338.1	1101.3	737.6
80°	4496.0	4755.0	5969.4	7823.7	10872.0	10715.9	8396.7	4092.8	1391.2	646.7	488.9
82.5°	2163.0	2346.7	2907.5	3814.9	6007.2	5864.8	4158.0	2236.8	883.4	377.4	288.1
85°	1392.9	1530.1	1850.9	1820.0	2470.1	2358.6	1868.0	1693.1	523.2	197.2	200.7
87.5°	919.4	1006.9	1207.6	965.8	898.9	813.1	825.1	953.8	102.9	75.5	27.5
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°	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5	5336.5
2.5°	5278.2	5255.9	5182.1	5110.1	5041.4	4976.3	4933.4	4876.8	4839.0	4849.4	4864.8
5°	5146.1	5096.3	4965.9	4839.0	4719.0	4576.6	4461.7	4369.1	4298.7	4273.0	4267.8
7.5°	5007.1	4923.1	4736.1	4518.3	4314.2	4137.5	3933.3	3832.2	3713.8	3672.6	3658.9
10°	4923.1	4809.9	4547.4	4243.8	3936.8	3643.5	3422.2	3242.0	3079.1	3048.2	3032.8
12.5°	4899.1	4749.8	4396.5	4005.4	3597.1	3236.9	2909.2	2672.5	2514.8	2478.7	2425.5
15°	4885.4	4700.1	4255.8	3765.2	3247.2	2808.1	2463.2	2187.1	2043.0	1946.9	1948.7
17.5°	4873.3	4643.5	4098.0	3502.8	2945.3	2439.3	2058.4	1809.7	1677.7	1626.1	1621.0
20°	4856.2	4576.6	3916.2	3226.6	2600.5	2103.1	1758.2	1573.0	1483.8	1440.9	1439.2
22.5°	4849.4	4511.4	3737.8	2945.3	2295.1	1844.0	1559.3	1428.9	1372.3	1343.2	1343.2
25°	4866.5	4465.1	3550.8	2677.7	2024.1	1622.8	1422.0	1332.8	1300.2	1284.8	1279.7
27.5°	4919.7	4444.5	3365.6	2410.1	1775.4	1471.8	1329.4	1267.7	1243.6	1231.7	1233.4
30°	5020.8	4442.8	3183.7	2145.9	1590.1	1356.9	1255.6	1212.8	1193.9	1187.0	1185.3
32.5°	5183.9	4480.6	3005.3	1928.1	1434.1	1260.8	1187.0	1156.2	1147.6	1142.4	1140.8
35°	5460.0	4586.9	2828.7	1729.1	1314.0	1175.0	1121.9	1106.4	1094.4	1099.6	1101.3
37.5°	5832.3	4770.4	2660.6	1573.0	1223.0	1111.5	1067.0	1053.2	1046.4	1051.5	1056.7
40°	6331.4	5034.6	2519.9	1447.8	1157.9	1058.4	1018.9	1006.9	1000.0	1008.7	1010.4
42.5°	6882.0	5339.9	2403.3	1350.0	1104.7	1013.8	976.0	962.3	957.1	962.3	964.0
45°	7448.1	5695.0	2343.2	1279.7	1060.1	981.2	941.7	926.3	914.3	910.9	916.0
47.5°	8005.6	6003.8	2341.5	1236.7	1024.1	952.0	909.1	892.0	876.6	868.0	866.2
50°	8460.2	6249.0	2382.7	1217.9	993.2	919.4	876.6	859.4	838.8	821.7	825.1
52.5°	8803.3	6408.6	2401.5	1209.3	976.0	885.1	842.3	826.8	802.8	780.5	780.5
55°	9024.5	6446.4	2355.2	1200.7	962.3	849.1	802.8	789.0	765.1	742.8	742.8
57.5°	9100.0	6329.7	2188.8	1180.1	948.6	818.2	763.3	751.4	732.5	710.2	706.7
60°	8925.0	5935.1	1897.2	1118.4	921.1	785.7	720.4	715.3	708.5	689.6	687.9
62.5°	8250.9	5098.0	1579.9	1037.8	874.8	751.4	681.0	689.6	694.8	684.4	682.7
65°	7129.1	4139.2	1350.0	926.3	813.1	703.3	638.1	660.4	674.2	674.2	670.7
67.5°	5782.5	3178.6	1137.3	830.2	735.9	638.1	590.1	607.2	617.6	614.1	622.6
70°	4110.0	2152.8	926.3	720.4	638.1	564.4	528.4	528.4	521.5	518.0	518.0
72.5°	1993.3	1229.9	751.4	602.1	543.8	482.0	452.9	440.8	427.1	425.4	416.9
73°	1665.6	1103.0	717.0	579.8	521.5	470.0	437.4	418.5	410.0	403.1	401.4
75°	1013.8	837.1	598.7	488.9	444.3	404.8	375.7	358.5	349.9	344.8	343.1
77.5°	667.3	624.4	464.9	374.0	339.7	315.6	303.6	286.5	281.3	274.4	274.4
80°	497.4	476.8	332.8	264.2	243.6	223.0	219.6	216.1	202.4	193.9	190.4
82.5°	320.8	339.7	226.4	176.6	154.4	137.3	139.0	144.1	130.4	118.4	114.9
85°	228.2	245.3	137.3	80.6	65.1	56.6	63.5	56.6	58.3	46.4	37.7
87.5°	37.7	65.1	24.0	10.3	5.2	3.4	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)