

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: P651560

Luminaire Tested: **GALN-SA8D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44528.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

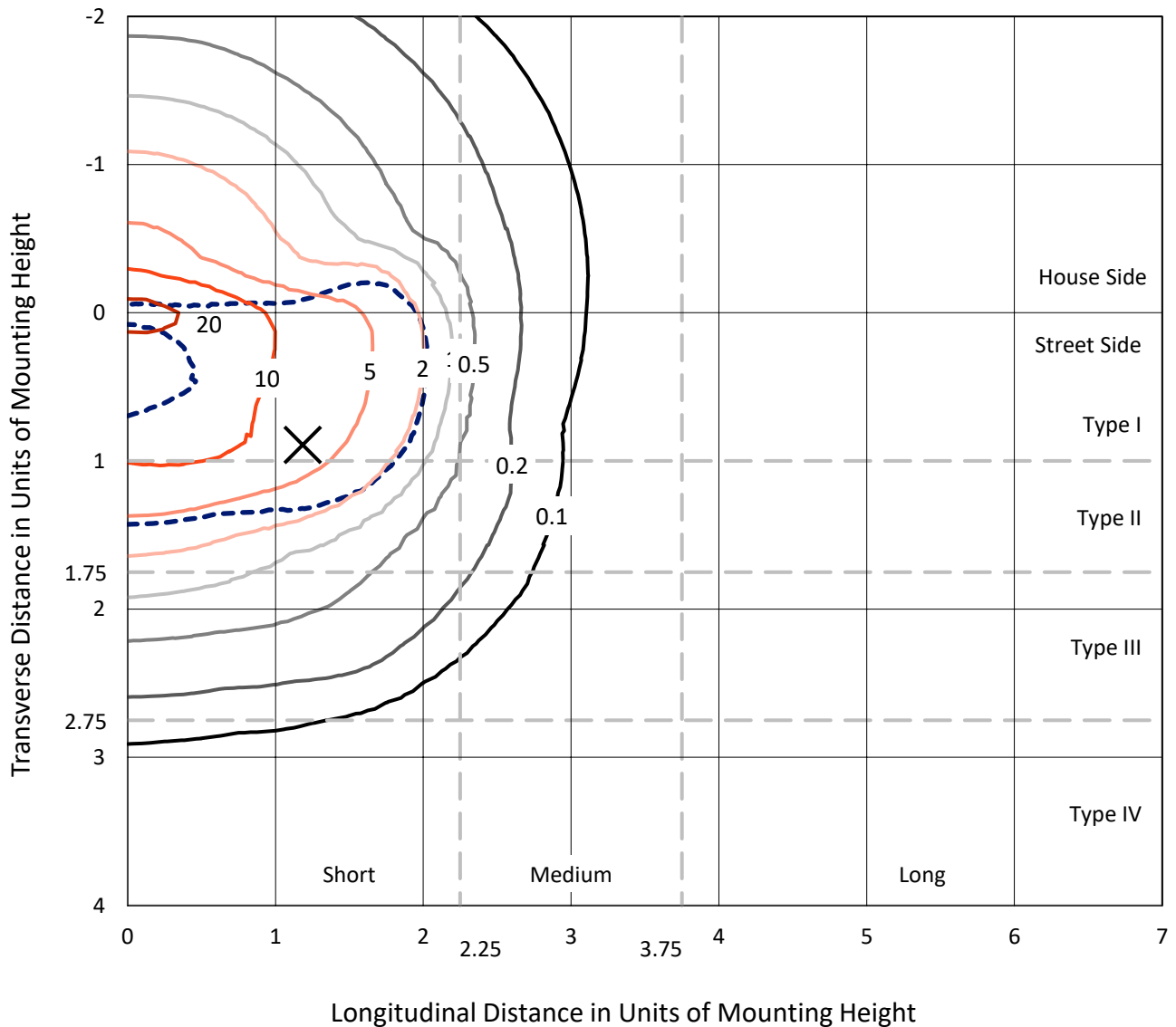
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

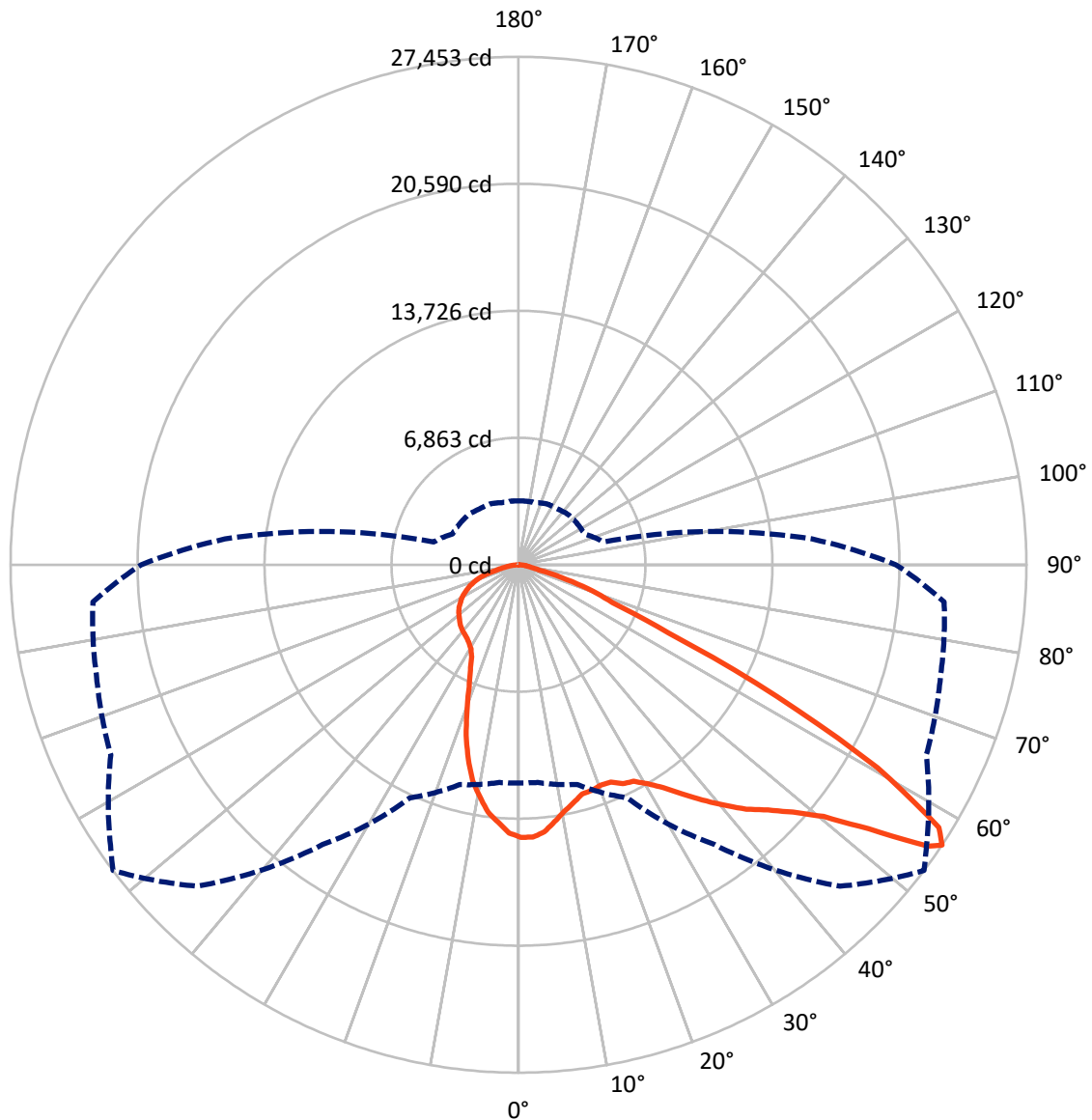
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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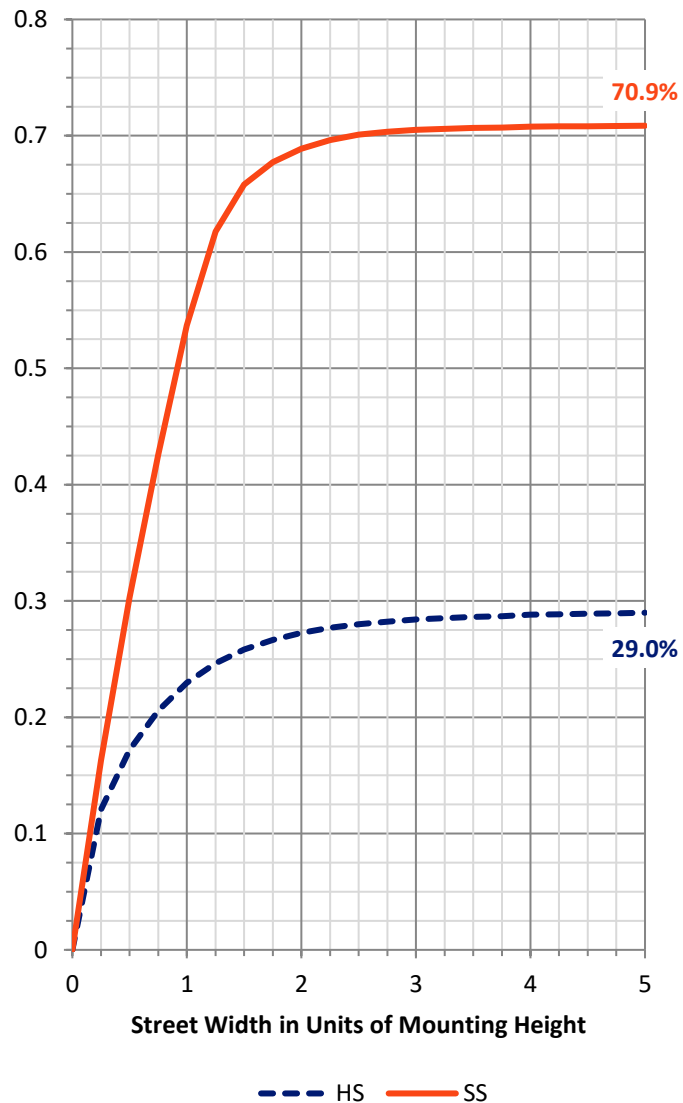
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12994.4	0.0	12994.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	31534.1	0.0	31534.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	44528.4	0.0	44528.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1304.2	2.9
10°-20°	3257.3	7.3
20°-30°	4803.1	10.8
30°-40°	6862.8	15.4
40°-50°	9445.7	21.2
50°-60°	11162.2	25.1
60°-70°	5948.7	13.4
70°-80°	1509.2	3.4
80°-90°	235.3	0.5
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°	44528.4	100.0
0°-180°	44528.4	100.0

Coefficient of Utilization

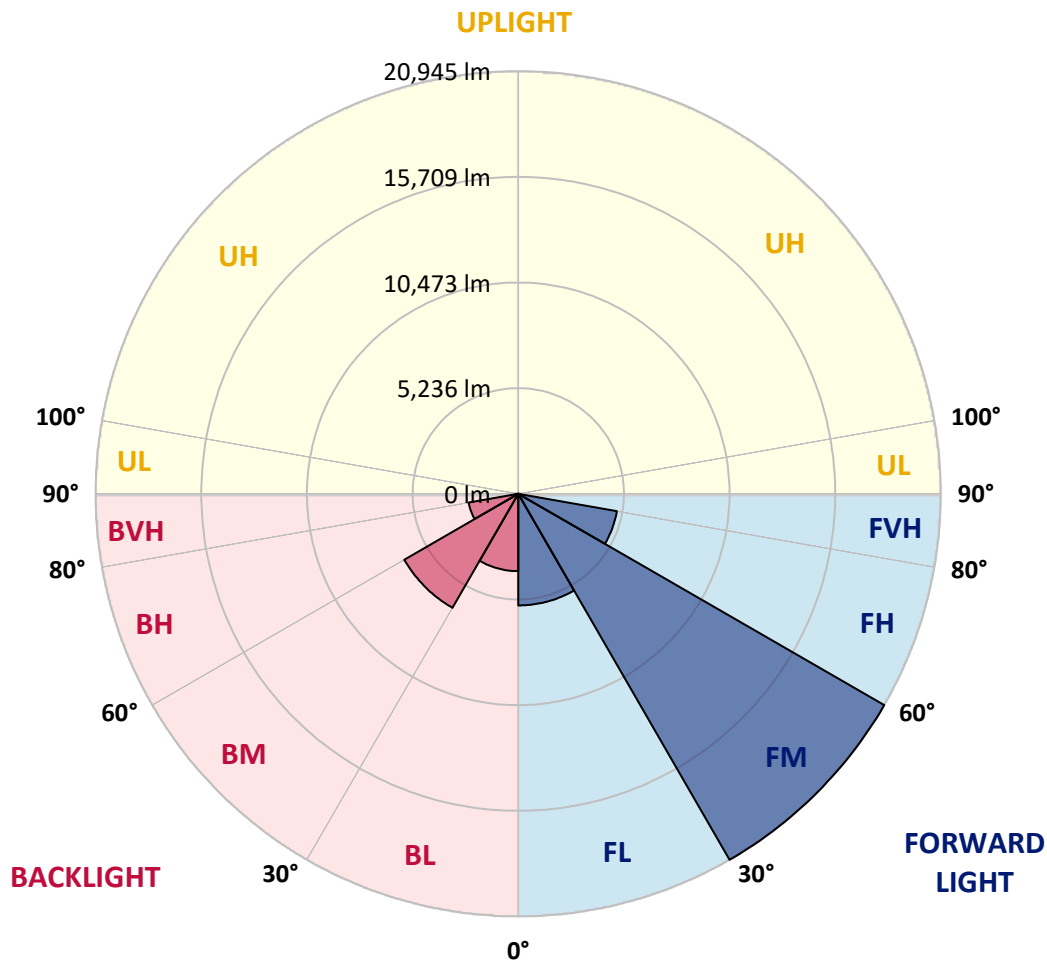


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5532.0	12.4			
FM (30°-60°)	20945.3	47.0			
FH (60°-80°)	4962.2	11.1			G2/5000
FVH (80°-90°)	94.6	0.2			G1/100
BL (0°-30°)	3832.6	8.6	B4/5000		
BM (30°-60°)	6525.3	14.7	B4/8500		
BH (60°-80°)	2495.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	140.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8
2.5°	14549.0	14423.3	14497.6	14469.0	14703.2	14771.7	14737.4	14766.0	14897.4	14834.6	14703.2
5°	13595.0	13772.1	13806.4	13892.1	14029.1	14297.7	14509.0	14566.1	14628.9	14920.3	14891.7
7.5°	12726.8	12846.7	12783.9	13035.2	13332.3	13766.4	14023.4	14069.2	14646.1	14806.1	14926.0
10°	12178.4	12058.4	12344.0	12412.6	12749.6	13246.6	13555.1	13743.5	14269.1	14903.1	14977.4
12.5°	11670.1	11630.0	11801.4	11995.6	12372.6	12886.7	13200.9	13275.2	14086.2	14754.6	15103.0
15°	11293.0	11247.3	11418.7	11561.5	12001.3	12458.3	12858.1	13069.5	13886.3	14668.9	14994.5
17.5°	10996.0	10990.3	11087.4	11344.4	11795.7	12178.4	12823.9	12835.3	13783.6	14800.3	15085.9
20°	10978.8	10973.1	10990.3	11275.9	11687.1	12155.6	12715.3	12818.2	13783.6	14708.9	15091.7
22.5°	11121.6	11030.2	11133.1	11315.8	11612.9	12195.5	12755.4	12983.9	14114.8	15160.2	15348.7
25°	11350.1	11373.0	11430.1	11492.9	11664.3	12286.9	13109.5	13298.0	14503.3	15548.6	15702.8
27.5°	11767.1	11755.7	11778.5	11812.9	11961.4	12372.6	13252.3	13737.8	15314.4	16239.8	16085.6
30°	12378.3	12338.3	12429.7	12549.7	12412.6	12646.8	13726.4	14092.0	16068.4	16936.6	16514.0
32.5°	12932.4	13080.9	13252.3	13303.7	13138.0	13183.8	14354.8	14726.1	16696.8	17793.5	17039.5
35°	13623.6	13743.5	13972.0	14132.0	14103.4	13966.3	15211.6	15702.8	17605.0	18421.9	17593.6
37.5°	14297.7	14440.5	14817.4	15291.6	15028.8	14965.9	16125.5	16531.1	17884.9	18758.8	17999.2
40°	15383.0	15377.3	16028.5	16274.0	16508.2	16399.8	17073.7	17210.8	18033.4	18684.6	18010.5
42.5°	16656.8	16576.8	17239.4	17622.1	17924.9	17936.3	18062.0	18016.2	18101.9	18307.6	17890.6
45°	17867.7	18039.1	18707.5	19392.9	19695.6	19729.9	18895.9	18810.2	18221.9	18199.1	17662.1
47.5°	19347.2	19387.2	19935.6	20838.1	21540.7	21300.8	19975.5	19787.0	18747.4	18924.5	18044.8
50°	19432.9	19729.9	20221.2	21283.7	23442.9	23380.1	21375.0	21020.9	19592.9	19952.7	19113.0
52.5°	17639.3	17570.8	18153.4	19889.9	23300.1	25447.8	23694.2	22848.8	21409.3	21135.2	20843.8
55°	13440.8	13600.7	14114.8	15868.5	20232.6	25476.4	26853.0	26161.8	23351.5	22883.1	22546.0
56°	11790.0	11812.9	12298.4	13897.8	18461.8	24568.1	27452.8	26893.0	24316.8	23602.8	23088.7
57.5°	9773.6	9642.1	9893.5	10767.5	15582.9	22648.9	26795.9	27344.3	25447.8	24379.7	23665.7
60°	7694.3	7665.8	7562.9	7722.9	9847.9	17062.4	22306.1	23539.9	25333.6	23648.5	22666.0
62.5°	6283.4	6140.6	6346.3	6574.8	6843.2	10584.7	15674.3	16399.8	20112.7	18878.9	17028.1
65°	4872.5	4804.0	5061.0	5803.6	5963.5	6723.3	8928.1	9488.0	11875.7	11664.3	10270.5
67.5°	3353.1	3364.5	3587.3	4718.3	5529.4	5460.9	5466.6	5757.9	6197.7	4604.1	4010.0
70°	2125.0	2119.2	2239.2	3038.9	4449.8	4495.5	4267.0	4181.4	3964.3	2399.1	2541.9
72.5°	1365.2	1325.2	1388.1	1679.4	2302.0	2661.8	2741.8	2793.3	2296.3	1885.0	2045.0
75°	771.1	731.2	708.3	782.6	908.3	1051.1	1153.9	1188.2	1331.0	1428.0	1513.7
77.5°	234.2	211.3	257.0	342.7	451.3	605.5	736.9	759.8	896.8	1011.1	1096.7
80°	102.9	114.2	160.0	228.5	319.9	428.4	519.8	554.1	645.5	731.2	754.0
82.5°	62.8	68.5	108.6	154.2	222.8	302.8	371.3	382.7	474.1	542.7	559.8
85°	22.9	28.6	57.1	91.4	142.8	194.2	194.2	211.3	194.2	194.2	211.3
87.5°	0.0	0.0	5.7	11.4	11.4	17.2	22.9	22.9	28.6	34.3	39.9
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°	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8	14731.8
2.5°	14771.7	14743.2	14697.5	14531.8	14514.7	14463.3	14177.7	14132.0	14177.7	14040.6	14052.0
5°	14743.2	14828.8	14486.1	14320.5	14012.0	13789.2	13532.2	13400.8	13166.6	13018.1	13183.8
7.5°	14868.9	14834.6	14406.2	14046.3	13583.6	13018.1	12566.8	12309.8	11898.5	11784.3	11870.0
10°	14823.1	14640.4	14137.7	13663.6	12789.6	12292.6	11561.5	10853.2	10464.7	10264.8	10236.2
12.5°	14760.3	14708.9	13869.2	13052.4	12132.7	11087.4	10059.2	9390.9	8756.8	8482.6	8522.6
15°	14834.6	14400.4	13366.5	12332.7	11110.2	9739.3	8631.1	7768.6	7328.7	7151.7	7151.7
17.5°	14800.3	14251.9	13126.7	11527.3	9979.2	8356.9	7140.3	6620.4	6437.7	6437.7	6489.1
20°	14817.4	14349.1	12641.1	10721.8	8642.5	7037.4	6152.0	5963.5	6043.5	6072.1	6100.6
22.5°	14914.5	14029.1	12167.0	9836.4	7403.0	6020.6	5586.5	5592.2	5735.0	5889.3	5860.7
25°	15034.5	13903.5	11590.1	8956.7	6454.8	5523.7	5386.6	5369.4	5478.0	5558.0	5569.4
27.5°	14931.7	13686.4	11001.7	7860.0	5677.9	5192.4	5163.8	5175.3	5209.5	5369.4	5318.1
30°	15268.7	13749.3	10264.8	6940.4	5249.5	5083.8	5049.6	5032.5	5083.8	5129.6	5089.6
32.5°	15685.7	13526.5	9716.4	6054.9	5038.2	5003.9	4935.3	4912.4	4941.0	4895.4	4918.2
35°	15868.5	13486.5	9002.4	5420.9	4872.5	4843.9	4804.0	4798.2	4804.0	4764.0	4729.7
37.5°	15971.3	13675.0	8185.6	5129.6	4769.6	4798.2	4706.8	4695.4	4592.6	4615.5	4632.6
40°	16148.4	13383.7	7523.0	4849.6	4706.8	4649.7	4569.7	4552.6	4484.0	4444.1	4484.0
42.5°	15891.4	13298.0	6871.8	4729.7	4615.5	4552.6	4495.5	4398.4	4375.6	4341.2	4318.5
45°	15685.7	12806.7	6289.2	4581.2	4506.9	4472.7	4364.1	4261.3	4175.6	4209.9	4158.5
47.5°	15839.9	12635.4	5712.2	4455.5	4358.4	4318.5	4209.9	4129.9	4044.2	4004.3	3992.8
50°	16456.9	12955.3	5226.6	4364.1	4232.8	4209.9	4067.1	3975.7	3895.7	3867.2	3878.6
52.5°	17930.6	13829.2	4895.4	4175.6	4112.7	4010.0	3930.0	3815.8	3764.3	3673.0	3730.1
55°	19798.5	15251.5	4809.7	3998.5	3964.3	3872.9	3764.3	3678.6	3581.6	3507.3	3490.2
56°	20398.3	15931.3	4741.1	3930.0	3872.9	3821.4	3678.6	3627.2	3473.0	3455.9	3444.5
57.5°	20883.8	16531.1	4752.6	3798.6	3741.5	3695.8	3610.1	3484.4	3381.7	3318.8	3347.3
60°	19787.0	15474.3	4535.5	3598.7	3587.3	3501.6	3381.7	3324.5	3198.8	3124.6	3107.4
62.5°	14708.9	10504.8	3678.6	3341.6	3335.9	3244.5	3107.4	3044.6	3021.7	2918.9	2918.9
65°	8471.2	6586.1	3181.7	3130.3	3084.6	2993.2	2856.1	2804.7	2747.5	2713.3	2684.7
67.5°	3615.8	3415.9	2890.3	2884.6	2833.2	2719.0	2582.0	2502.0	2427.7	2359.2	2393.4
70°	2621.9	2661.8	2610.5	2582.0	2519.0	2376.2	2256.3	2159.2	2045.0	1999.3	2033.5
72.5°	2079.2	2164.9	2239.2	2244.9	2170.6	2004.9	1873.6	1742.2	1616.6	1553.7	1582.3
75°	1576.5	1633.7	1708.0	1725.1	1616.6	1502.3	1376.6	1239.5	1142.4	1068.2	1079.6
77.5°	1136.7	1125.3	1193.9	1182.4	1131.0	1051.1	936.8	811.1	702.6	634.0	639.7
80°	776.8	794.0	834.0	828.3	765.4	714.0	628.3	525.5	445.6	388.5	377.0
82.5°	542.7	571.2	605.5	576.9	525.5	474.1	411.2	337.0	274.2	228.5	217.1
85°	194.2	222.8	257.0	274.2	291.3	279.9	234.2	188.5	137.1	114.2	108.6
87.5°	39.9	45.7	51.4	51.4	51.4	45.7	39.9	39.9	34.3	17.2	17.2
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)