

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: P647690

Luminaire Tested: **GALN-SA9D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 54791.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

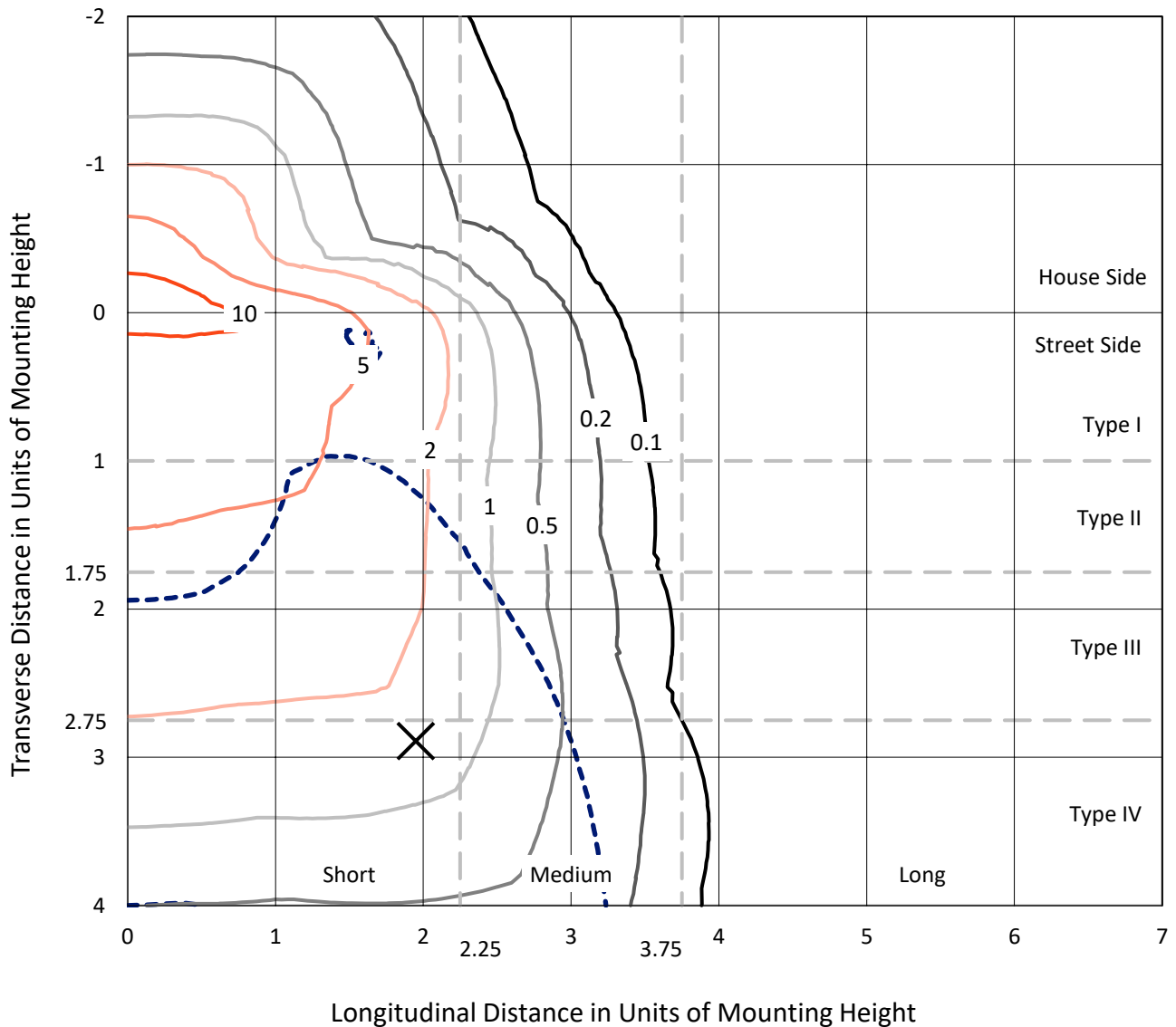
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

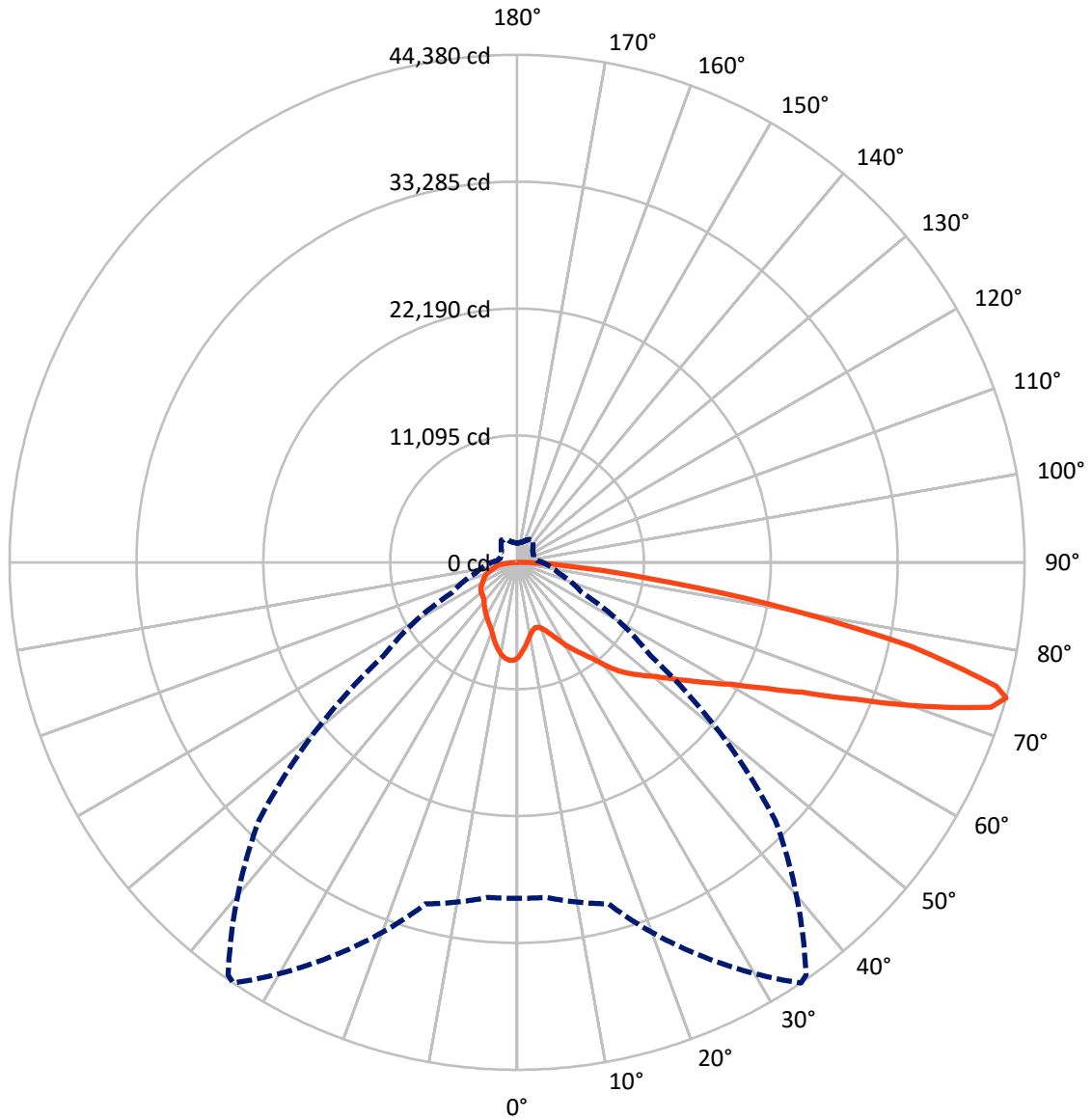
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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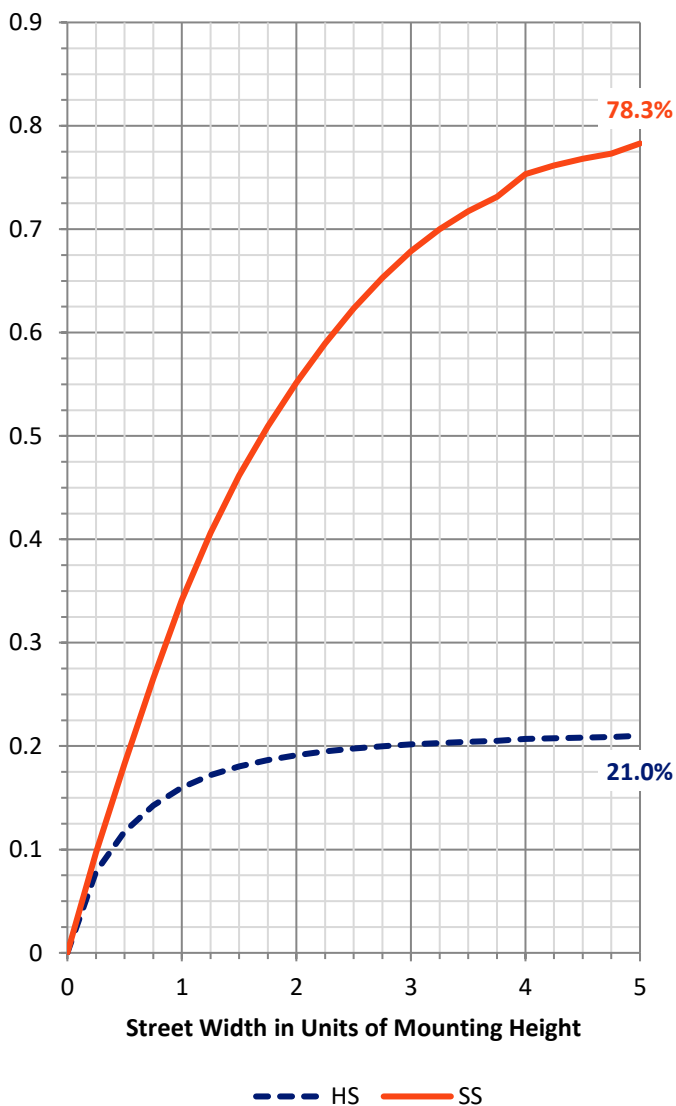
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11660.0	0.0	11660.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	43131.3	0.0	43131.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	54791.2	0.0	54791.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.8	1.4
10°-20°	2082.7	3.8
20°-30°	3433.8	6.3
30°-40°	5143.4	9.4
40°-50°	7477.2	13.6
50°-60°	10443.8	19.1
60°-70°	13075.1	23.9
70°-80°	10812.1	19.7
80°-90°	1562.3	2.9
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°	54791.2	100.0
0°-180°	54791.2	100.0

Coefficient of Utilization

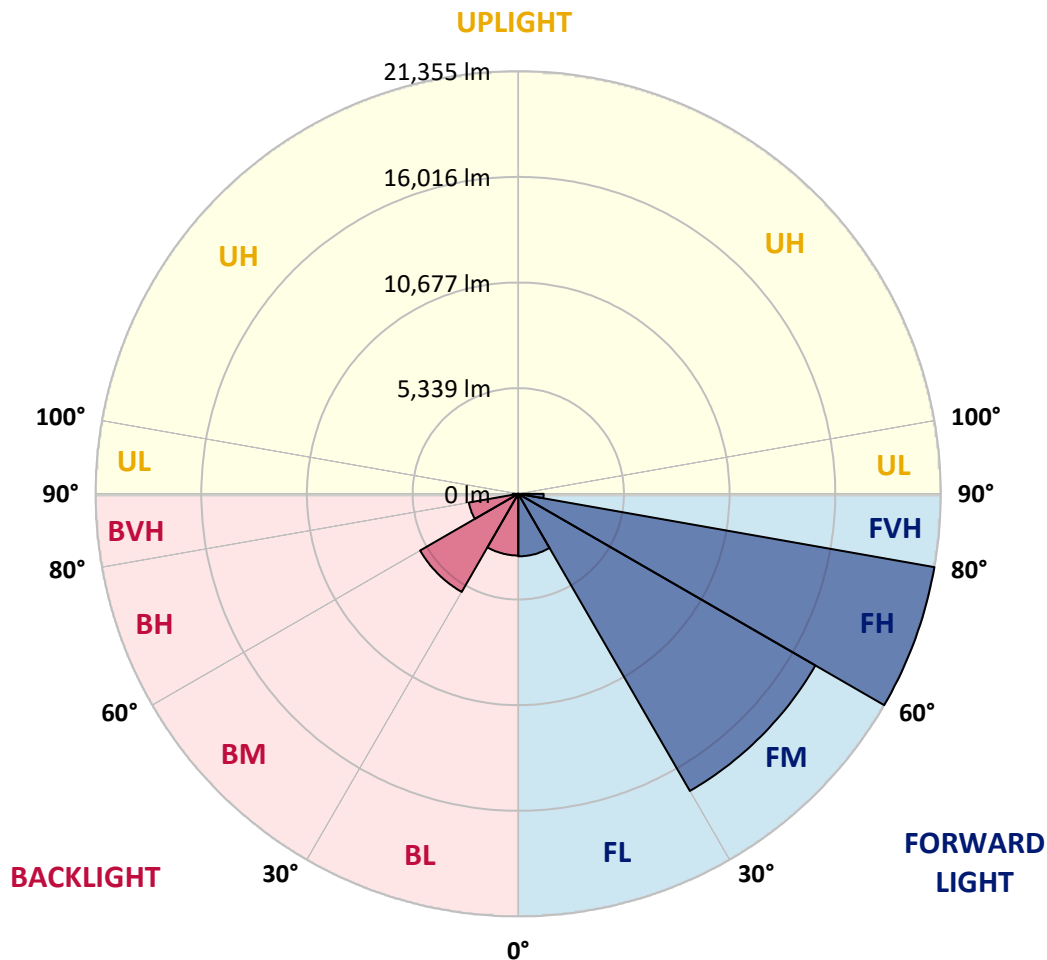


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3158.5	5.8			
FM (30°-60°)	17338.2	31.6			
FH (60°-80°)	21354.7	39.0			G5
FVH (80°-90°)	1279.9	2.3			G5
BL (0°-30°)	3118.8	5.7	B4/5000		
BM (30°-60°)	5726.2	10.5	B4/8500		
BH (60°-80°)	2532.5	4.6	B4/5000		G4/5000
BVH (80°-90°)	282.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6
2.5°	7731.1	7770.6	7791.9	7867.7	7885.9	7910.3	7974.0	8058.9	8168.3	8265.3	8350.4
5°	7087.6	7148.3	7184.7	7251.5	7382.0	7394.2	7564.2	7758.4	7980.0	8186.4	8356.4
7.5°	6477.5	6544.3	6574.6	6696.1	6869.1	6896.4	7145.3	7451.9	7822.2	8134.8	8395.9
10°	6019.2	6052.6	6119.4	6210.4	6416.8	6435.0	6759.8	7169.6	7649.2	8110.5	8462.7
12.5°	5770.2	5788.5	5803.7	5900.8	6104.2	6131.5	6471.4	6935.9	7512.6	8128.8	8572.0
15°	5806.7	5812.8	5746.0	5764.2	5928.1	5967.6	6304.5	6781.1	7427.6	8174.3	8735.9
17.5°	6113.3	6092.1	5928.1	5843.1	5958.5	5976.7	6271.1	6720.3	7388.2	8259.3	8905.8
20°	6595.9	6565.5	6283.3	6095.0	6161.8	6177.0	6380.4	6765.9	7427.6	8398.9	9169.9
22.5°	7196.9	7184.7	6756.7	6529.1	6526.1	6526.1	6632.3	6929.8	7546.0	8590.1	9446.1
25°	8037.7	7974.0	7415.5	7121.0	7039.1	7033.0	7020.8	7199.9	7697.8	8793.6	9774.0
27.5°	8899.7	8790.5	8292.7	7840.4	7664.4	7643.1	7564.2	7582.4	7892.0	9024.2	10147.3
30°	9673.8	9604.0	9136.5	8635.7	8426.3	8377.7	8159.1	8058.9	8216.8	9440.1	10742.2
32.5°	10265.7	10223.2	9858.9	9403.7	9094.0	9084.9	8766.2	8684.3	8723.7	9943.9	11422.2
35°	10745.3	10760.5	10575.3	10180.7	9825.6	9774.0	9561.4	9458.2	9342.9	10672.4	12278.1
37.5°	11400.9	11434.3	11422.2	11082.2	10648.2	10660.3	10611.7	10441.8	10135.2	11485.9	13228.2
40°	12123.3	12147.6	12144.6	12014.0	11786.4	11798.6	11780.3	11586.1	11127.8	12521.0	14284.6
42.5°	13122.0	13006.6	12706.1	12836.7	12970.2	13027.9	13152.4	12967.2	12338.8	13625.8	15277.1
45°	14239.0	14020.5	13340.5	13401.3	13896.0	14005.3	14691.3	14436.3	13653.2	14894.7	16445.7
47.5°	14943.2	14727.7	14154.1	14141.8	14797.5	14903.8	16117.9	16023.9	14849.1	16263.6	17872.4
50°	15571.5	15541.2	14894.7	15049.5	15689.9	15847.8	17672.1	17584.0	16042.0	17878.5	19426.5
52.5°	16503.4	16257.6	15741.5	16060.3	16907.1	17113.6	19214.0	18956.0	17137.8	19305.1	20935.1
55°	16922.3	16864.6	16834.3	17110.5	18273.0	18421.8	20713.5	20121.6	18072.7	20513.2	22082.5
57.5°	18042.4	17936.1	18236.6	18424.9	19881.8	20109.5	22279.8	21338.8	18892.3	21472.4	22641.0
60°	19493.3	19435.6	19711.8	20051.8	21678.8	22024.8	24064.6	22376.9	19551.0	21955.0	22334.4
62.5°	21660.5	21654.5	21602.9	22331.4	24225.5	24544.2	26113.4	23387.7	19654.2	21593.7	20749.9
65°	24768.8	24659.5	24210.3	25005.6	27394.4	27767.8	28247.4	23952.3	19031.9	19739.1	17471.7
67.5°	28019.7	28013.6	27649.4	28681.4	31944.4	32329.9	30915.4	23827.8	17304.8	15990.4	12408.7
70°	30715.1	30584.6	31049.0	33799.1	37757.2	38203.4	33249.6	22361.7	13783.7	10560.1	7373.0
72.5°	31361.7	31367.7	32333.0	37745.1	43339.3	43409.1	34090.5	18124.3	9224.5	5824.9	3688.0
74°	29370.4	29422.0	30918.5	37942.4	44380.4	44064.7	31941.4	14245.1	6237.7	3803.3	2659.0
75°	26808.6	26483.8	28648.0	36628.0	43299.8	42959.8	29425.1	11431.3	4759.5	3038.4	2328.2
77.5°	14333.1	14663.9	18002.9	27333.7	35177.1	34785.6	19951.6	5481.9	2571.0	2115.7	1675.5
80°	5102.5	5627.6	7910.3	14302.7	22553.0	22674.3	9522.0	2513.3	1809.1	1560.2	1183.8
82.5°	2082.3	2139.9	3396.6	6347.0	11452.5	11561.8	3888.3	1493.4	1293.0	1074.5	707.3
85°	813.5	837.7	1502.5	2853.3	4887.0	5205.7	1344.6	789.2	795.3	616.2	361.2
87.5°	273.2	309.6	616.2	950.1	1660.4	1627.0	391.6	233.7	285.3	267.1	112.3
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°	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6	8365.6
2.5°	8392.8	8450.5	8490.0	8532.5	8572.0	8584.1	8574.9	8602.3	8605.3	8608.4	8611.4
5°	8441.4	8520.4	8596.2	8638.7	8656.9	8641.7	8590.1	8562.8	8538.5	8520.4	8526.4
7.5°	8508.2	8620.5	8690.3	8708.5	8660.0	8590.1	8462.7	8362.5	8298.8	8256.3	8253.2
10°	8611.4	8720.7	8778.4	8726.8	8593.2	8423.2	8222.9	8034.7	7892.0	7849.5	7846.5
12.5°	8742.0	8866.4	8863.3	8711.6	8477.9	8174.3	7849.5	7631.0	7436.7	7339.6	7379.1
15°	8911.9	9006.0	8918.0	8644.8	8274.5	7858.7	7457.9	7160.5	6941.9	6838.7	6844.8
17.5°	9109.2	9191.2	8957.4	8526.4	7989.2	7454.9	6990.5	6708.2	6535.2	6459.3	6453.3
20°	9355.0	9379.3	8957.4	8320.0	7621.9	6984.4	6541.3	6343.9	6246.9	6207.4	6219.5
22.5°	9619.2	9570.6	8908.9	8028.6	7139.2	6492.7	6195.3	6107.2	6058.6	6052.6	6058.6
25°	9916.6	9780.1	8808.7	7634.0	6635.4	6067.8	5894.7	5909.9	5919.0	5919.0	5940.2
27.5°	10280.9	10007.7	8641.7	7136.2	6046.5	5673.1	5624.6	5730.8	5779.4	5788.5	5803.7
30°	10760.5	10256.6	8365.6	6513.9	5545.7	5318.0	5403.0	5545.7	5600.3	5633.7	5627.6
32.5°	11331.1	10529.8	7992.2	5891.7	5142.0	5069.1	5172.3	5318.0	5378.7	5396.9	5372.6
35°	12001.9	10839.4	7500.4	5308.9	4789.8	4832.4	4953.7	4999.3	5054.0	5054.0	5066.1
37.5°	12724.4	11088.3	6899.4	4774.7	4516.7	4671.5	4759.5	4717.0	4692.7	4662.4	4677.6
40°	13458.9	11273.4	6119.4	4246.5	4243.5	4504.5	4528.8	4407.4	4310.3	4279.9	4264.7
42.5°	14099.4	11388.8	5415.1	3836.7	3985.5	4340.6	4358.8	4164.5	4009.7	3918.7	3888.3
45°	14855.2	11522.3	4726.1	3496.8	3745.6	4210.1	4255.6	3994.6	3766.9	3575.7	3527.1
47.5°	15890.3	11825.9	4182.8	3232.7	3572.7	4128.1	4191.9	3854.9	3554.4	3305.5	3266.0
50°	17058.9	12241.7	3760.8	3053.6	3439.1	4055.3	4134.2	3712.3	3357.1	3080.9	3050.6
52.5°	18130.4	12466.4	3396.6	2892.7	3308.6	3921.7	4058.3	3609.1	3162.9	2856.3	2829.0
55°	18716.2	12102.1	3038.4	2734.9	3129.5	3748.7	3952.1	3466.4	2974.7	2737.9	2698.5
57.5°	18795.1	11349.4	2713.6	2564.9	2941.3	3536.3	3754.8	3293.4	2853.3	2655.9	2622.6
60°	18185.0	10226.2	2461.7	2425.3	2750.1	3296.4	3533.2	3141.6	2728.8	2564.9	2531.5
62.5°	16667.3	9006.0	2285.7	2297.8	2555.8	3044.5	3369.2	2995.9	2610.4	2464.7	2434.3
65°	14056.9	7433.6	2115.7	2167.3	2382.7	2847.2	3220.6	2874.5	2492.1	2388.9	2361.5
67.5°	9764.9	5366.6	1976.1	2030.7	2218.9	2646.9	3047.5	2744.0	2358.5	2303.9	2261.4
70°	5406.1	3302.5	1812.1	1875.8	2048.9	2422.2	2853.3	2546.7	2164.2	2139.9	2079.3
72.5°	2841.1	2103.5	1627.0	1696.8	1818.2	2133.9	2555.8	2331.1	1973.0	1869.8	1790.9
74°	2218.9	1724.1	1502.5	1575.4	1657.3	1963.9	2379.8	2176.3	1836.4	1715.0	1654.3
75°	1933.5	1535.9	1396.2	1490.4	1563.3	1848.6	2243.1	2067.1	1760.5	1645.2	1590.5
77.5°	1365.9	1150.4	1141.3	1253.6	1293.0	1620.9	2021.5	1881.9	1569.3	1447.8	1396.2
80°	959.2	862.1	904.5	974.4	1029.0	1432.7	1875.8	1627.0	1287.0	1144.4	1126.1
82.5°	625.3	564.6	646.5	710.3	728.5	1056.3	1514.6	1235.4	938.0	761.9	707.3
85°	288.4	282.3	370.3	361.2	358.1	516.0	898.5	722.4	540.3	403.7	379.4
87.5°	72.8	69.8	91.1	75.9	91.1	78.9	82.0	21.2	3.1	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)