

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: P651564

Luminaire Tested: **GALN-SA8D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44445.2 lumens
Efficiency: N/A
Efficacy: 90.2 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

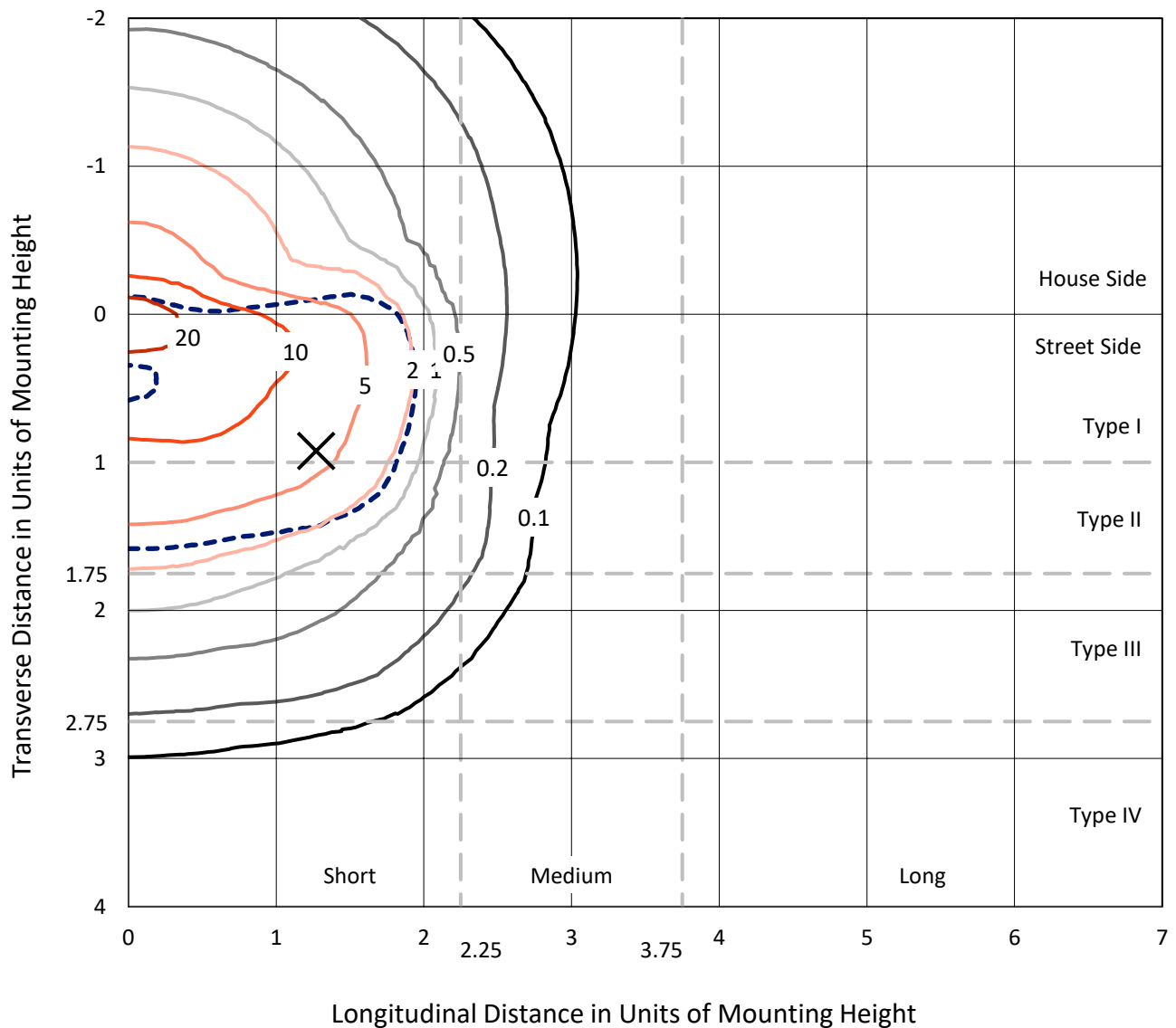
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

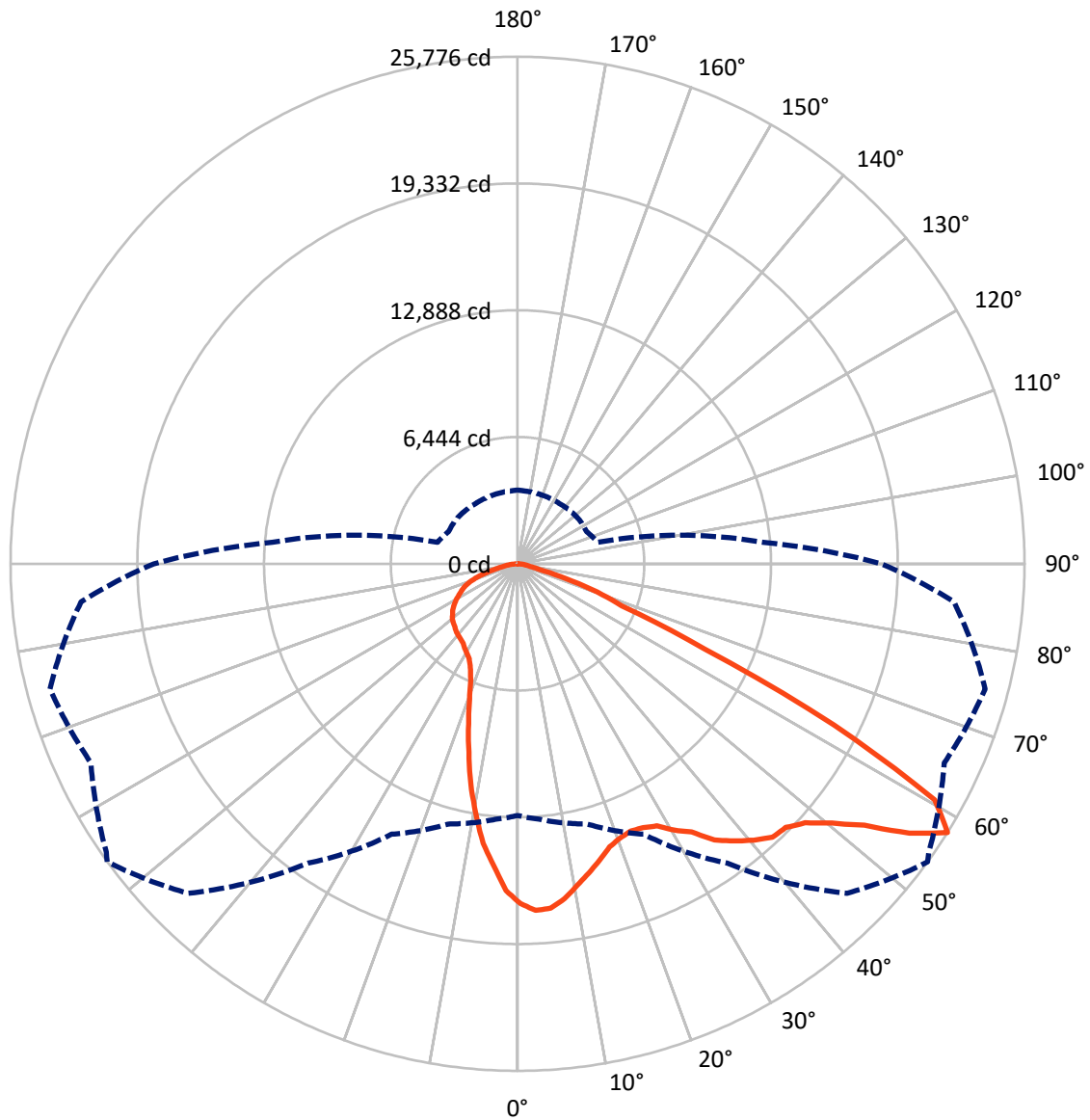
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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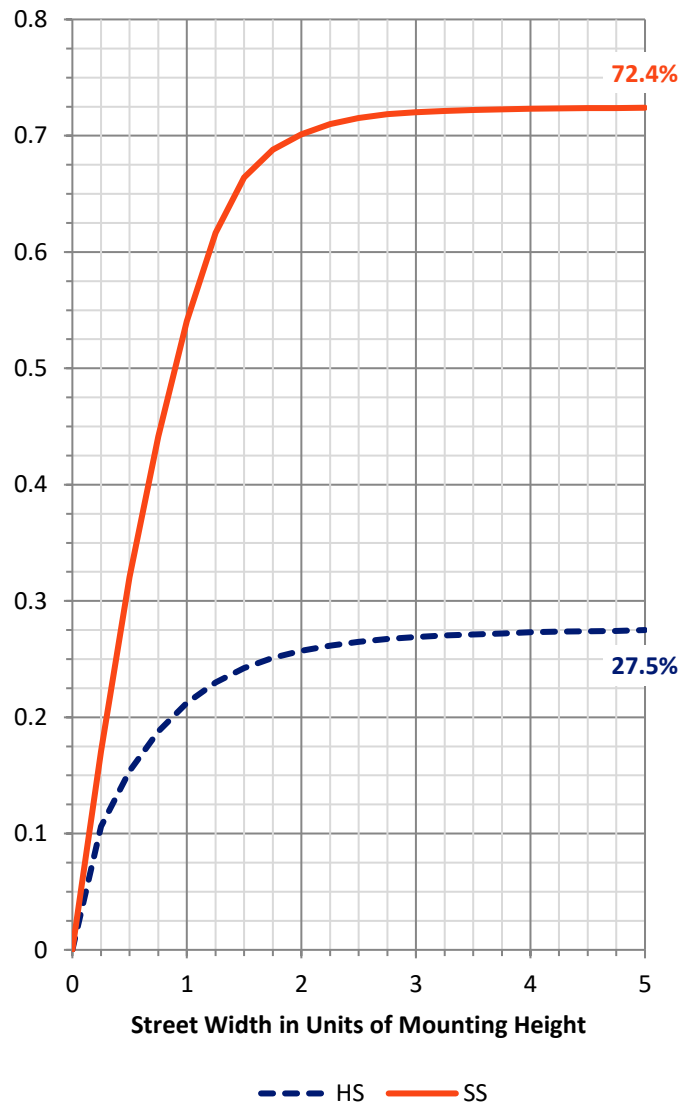
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12296.0	0.0	12296.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	32149.2	0.0	32149.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	44445.2	0.0	44445.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1489.8	3.4
10°-20°	3449.5	7.8
20°-30°	4846.6	10.9
30°-40°	6775.6	15.2
40°-50°	9172.8	20.6
50°-60°	11172.9	25.1
60°-70°	5819.3	13.1
70°-80°	1491.1	3.4
80°-90°	227.5	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°	44445.2	100.0
0°-180°	44445.2	100.0

Coefficient of Utilization

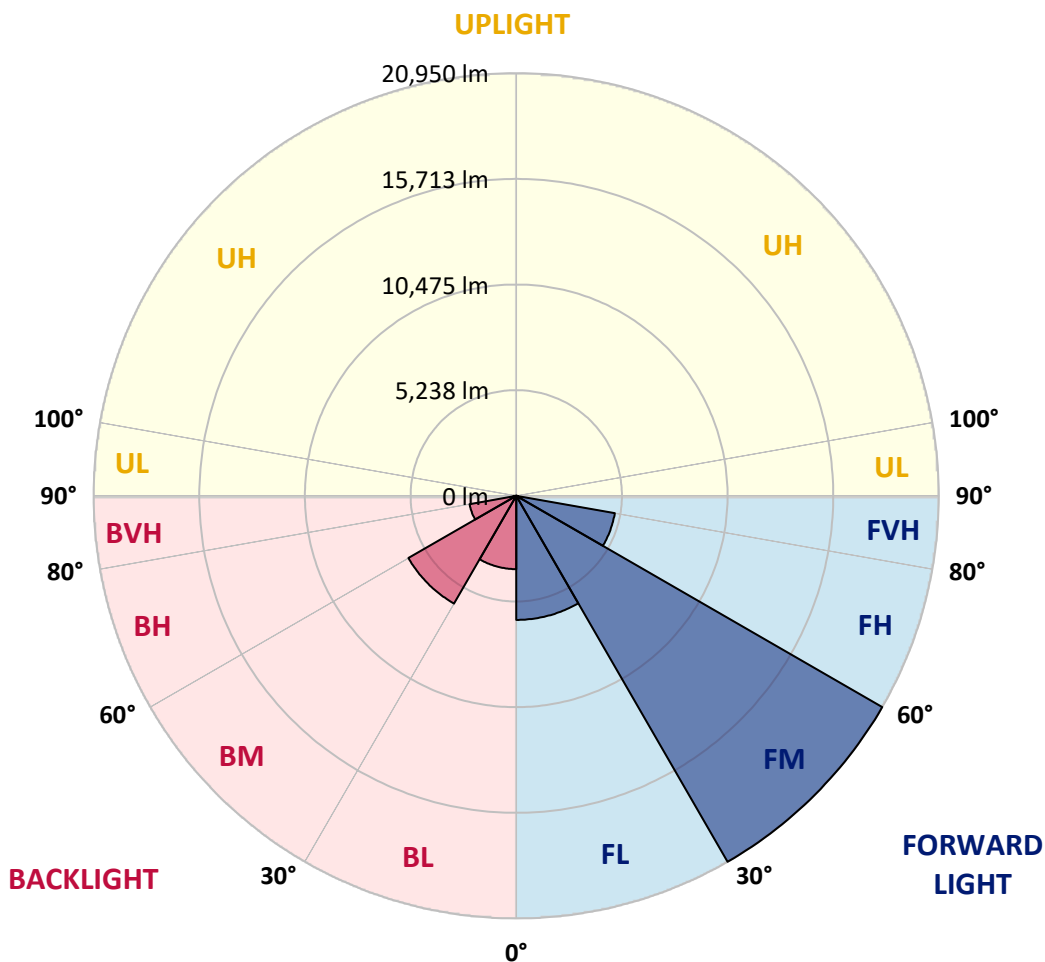


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6151.8	13.8			
FM (30°-60°)	20950.1	47.1			
FH (60°-80°)	4961.3	11.2			G2/5000
FVH (80°-90°)	85.9	0.2			G1/100
BL (0°-30°)	3634.1	8.2	B4/5000		
BM (30°-60°)	6171.3	13.9	B4/8500		
BH (60°-80°)	2349.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	141.5	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°	54°	55°	65°	75°	85°
0°	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3
2.5°	17766.6	17698.1	17709.5	17800.9	17686.7	17641.0	17641.0	17418.1	17435.3	17281.0	17241.1
5°	17355.3	17195.3	17303.9	17441.0	17463.9	17509.5	17583.8	17526.7	17366.7	17201.1	16932.5
7.5°	16281.3	16424.1	16464.1	16561.2	16766.9	16955.4	17189.6	17029.7	17023.9	16858.3	16698.3
10°	15338.7	15253.0	15470.1	15612.9	15955.7	16269.9	16629.8	16612.6	16698.3	16509.8	16235.6
12.5°	14401.8	14333.2	14436.1	14761.7	15241.6	15698.6	16127.1	15967.1	16424.1	16389.8	15801.5
15°	13407.8	13459.2	13607.7	13910.6	14539.0	15087.4	15630.1	15635.8	16041.4	16178.5	15390.1
17.5°	12710.9	12653.7	12842.2	13293.5	13853.4	14510.4	15127.3	15253.0	15875.7	15955.7	15264.4
20°	12191.0	12270.9	12516.6	12745.1	13390.7	14184.7	14881.7	14927.4	15841.4	16058.5	15064.5
22.5°	12065.3	12019.6	12099.6	12470.9	13002.2	13864.8	14750.3	14921.7	15835.7	16024.2	14687.5
25°	11933.9	12082.5	12076.8	12448.1	12836.5	13607.7	14858.9	15047.3	16138.5	16201.4	14738.9
27.5°	12231.0	12213.8	12373.8	12402.4	12882.3	13676.3	15087.4	15230.2	16641.2	16589.8	14778.9
30°	12528.0	12442.3	12539.5	12876.6	13099.3	14070.5	15715.8	15704.3	17292.5	17258.2	14904.5
32.5°	12893.6	12853.7	12916.5	13213.5	13590.6	14596.1	16247.0	16584.1	17955.2	18172.2	15338.7
35°	12962.2	13127.8	13276.4	13676.3	14213.3	15447.2	17246.7	17526.7	18720.7	19400.4	16167.0
37.5°	13396.4	13459.2	13807.7	14516.1	15007.4	16584.1	17880.8	18058.0	19417.6	20188.8	17041.1
40°	13859.1	13933.4	14459.0	15201.6	15875.7	17326.7	18475.0	18532.1	19640.4	20794.4	17612.4
42.5°	14487.5	14556.0	15075.9	16007.1	16909.7	17960.8	19000.5	19063.5	19623.3	21491.3	18520.7
45°	15138.8	15304.4	15915.7	16972.6	17783.8	18703.5	19120.6	19377.6	19783.2	22114.0	19257.6
47.5°	16052.8	16207.1	16709.7	17743.8	18692.1	19354.8	19674.7	19926.1	20166.0	22656.7	19731.8
50°	17023.9	17052.5	17663.8	18600.6	19297.7	20091.7	20708.7	20794.4	20668.7	23285.1	20537.3
52.5°	17738.0	17829.5	18303.6	19217.7	20257.4	21234.2	22079.8	22171.1	21925.5	23519.3	20811.6
55°	16555.5	16504.1	17275.3	18492.2	20902.9	22936.7	24164.9	24233.4	22839.5	24244.9	21708.4
57.5°	12796.6	13042.2	13699.1	15167.4	18572.1	23690.7	25775.9	25530.2	23936.4	24610.5	22279.7
60°	9300.4	9243.2	9683.1	10665.6	13996.2	20417.3	24370.6	24621.9	23039.4	22182.6	18372.1
62.5°	7575.1	7495.1	7529.4	7563.7	9031.8	13550.6	18040.8	18035.2	17743.8	15944.3	12391.0
65°	6055.5	6244.0	6261.2	6518.3	6706.7	8095.0	10454.3	11014.2	9591.7	7866.5	5707.0
67.5°	4564.4	4495.9	4724.4	5638.5	5992.6	5844.1	5707.0	5769.8	4101.7	2959.2	2787.8
70°	2690.7	2662.1	2936.4	3930.3	4935.8	4644.4	4301.7	4307.4	2816.3	2068.0	2302.2
72.5°	1473.9	1468.1	1525.3	1993.8	2805.0	2913.5	2582.1	2662.1	1679.6	1673.8	1799.5
75°	822.7	805.5	788.4	879.8	1011.1	1068.3	1091.1	1102.6	1153.9	1291.1	1342.5
77.5°	302.8	291.3	291.3	337.1	428.5	537.0	679.8	691.2	816.9	936.9	988.3
80°	102.9	114.3	154.2	211.3	285.6	382.7	462.7	474.2	577.0	657.0	674.1
82.5°	62.8	68.5	102.9	148.5	205.6	268.5	342.8	348.5	428.5	479.9	502.7
85°	28.6	34.3	57.1	91.4	131.4	177.1	182.8	182.8	177.1	182.8	171.4
87.5°	0.0	0.0	11.4	11.4	11.4	17.2	22.9	17.2	28.6	34.3	34.3
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°	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3	17275.3
2.5°	17121.1	17058.3	16864.0	16692.6	16641.2	16412.7	16075.6	16115.7	15870.0	15984.2	15864.3
5°	16886.9	16675.5	16178.5	15967.1	15413.0	15161.6	14990.2	14561.7	14361.8	14321.8	14150.5
7.5°	16287.1	16155.6	15532.9	14961.6	14373.3	13870.5	13225.0	12785.1	12470.9	12385.2	12133.9
10°	15812.9	15521.5	14658.9	13790.5	12950.8	12076.8	11236.9	10580.0	10260.1	9888.7	9763.1
12.5°	15344.4	14904.5	13739.2	12625.2	11539.7	10437.1	9420.3	8620.5	7923.6	7757.9	7700.8
15°	15053.1	14287.6	12916.5	11574.0	10031.5	8592.0	7575.1	7049.5	6621.0	6444.0	6569.6
17.5°	14670.3	13779.1	12128.1	10340.1	8643.4	7318.0	6466.8	6141.2	5986.9	6004.1	5952.7
20°	14190.4	13299.2	11094.1	9220.4	7403.7	6346.9	5861.3	5741.3	5764.1	5804.2	5787.0
22.5°	13847.7	12716.6	10345.8	8077.8	6398.2	5809.9	5609.9	5524.2	5598.5	5632.8	5604.2
25°	13584.9	12219.6	9437.4	7066.7	5815.6	5507.1	5415.7	5410.0	5524.2	5569.9	5541.3
27.5°	13345.0	11756.8	8534.8	6295.5	5427.1	5272.8	5244.3	5312.8	5387.1	5432.8	5472.8
30°	13202.1	11402.6	7689.3	5649.9	5232.9	5158.6	5107.2	5170.0	5210.0	5255.7	5232.9
32.5°	13339.3	11151.2	6872.4	5284.3	5072.9	4998.7	5067.2	5027.2	5095.8	5135.7	5072.9
35°	13767.7	10928.5	6289.8	5090.1	4890.1	4918.7	4930.1	4913.0	4941.5	4907.2	4981.5
37.5°	14190.4	10848.5	5752.7	4924.4	4804.4	4804.4	4793.0	4758.7	4815.8	4804.4	4838.7
40°	14727.4	10899.9	5295.7	4747.3	4724.4	4713.0	4667.3	4661.6	4638.7	4644.4	4655.9
42.5°	15195.9	11014.2	5033.0	4633.1	4650.1	4673.0	4587.3	4518.8	4547.4	4490.2	4490.2
45°	15692.9	11117.0	4798.7	4553.1	4535.9	4530.2	4461.7	4421.6	4398.9	4404.5	4456.0
47.5°	16475.5	11265.5	4621.6	4444.5	4456.0	4370.3	4353.1	4301.7	4324.5	4358.8	4364.5
50°	17029.7	11579.7	4484.5	4318.9	4358.8	4301.7	4198.9	4176.0	4176.0	4233.2	4221.7
52.5°	17418.1	12019.6	4353.1	4181.7	4198.9	4153.2	4118.9	4067.5	4033.2	4113.2	4153.2
55°	18606.4	12750.8	4318.9	4067.5	4061.8	4016.0	3953.2	3901.8	3884.7	3896.1	3976.1
57.5°	18492.2	12522.3	4210.3	3867.5	3856.1	3793.2	3730.4	3713.3	3707.5	3719.0	3741.9
60°	15013.1	9248.9	3759.0	3639.0	3621.9	3610.4	3547.6	3479.0	3444.8	3479.0	3450.5
62.5°	9934.5	6192.6	3313.4	3364.8	3376.2	3347.7	3244.8	3176.3	3187.7	3227.7	3164.9
65°	4878.6	3639.0	3004.9	3142.0	3153.4	3073.4	2976.3	2896.3	2856.4	2890.7	2862.1
67.5°	2787.8	2782.1	2753.5	2896.3	2890.7	2810.7	2656.4	2587.8	2519.3	2530.7	2513.6
70°	2365.1	2410.8	2467.9	2553.6	2547.9	2456.5	2273.6	2222.3	2125.1	2113.7	2085.2
72.5°	1862.4	1942.4	2068.0	2130.8	2079.5	1965.2	1845.2	1759.5	1673.8	1622.5	1639.5
75°	1382.5	1496.7	1565.3	1605.3	1525.3	1462.5	1365.4	1262.5	1159.7	1114.0	1096.8
77.5°	1005.4	1039.7	1102.6	1131.1	1079.7	1016.9	959.7	856.9	759.8	696.9	679.8
80°	702.7	725.5	771.2	771.2	771.2	742.7	668.4	565.6	502.7	445.6	434.2
82.5°	491.3	514.2	559.9	537.0	531.3	497.0	451.3	371.3	302.8	262.8	251.4
85°	171.4	188.6	228.5	274.3	291.3	285.6	257.1	205.6	160.0	131.4	119.9
87.5°	39.9	39.9	45.7	39.9	39.9	45.7	39.9	39.9	39.9	28.6	22.9
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)