

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: P533122

Luminaire Tested: **GALN-SA8C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533122
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-SA8C-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 44740 lumens
Efficiency: N/A
Efficacy: 104.3 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

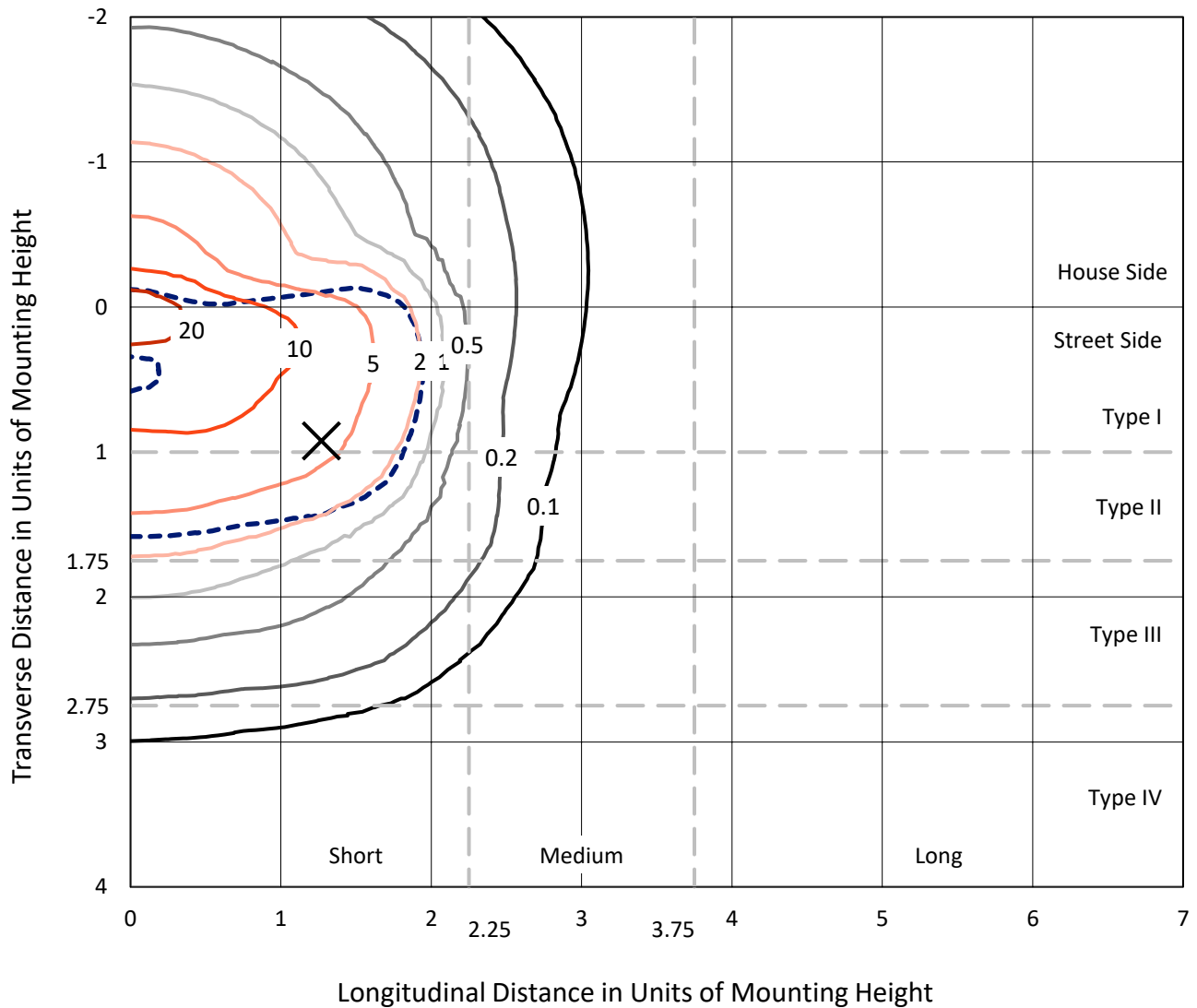
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

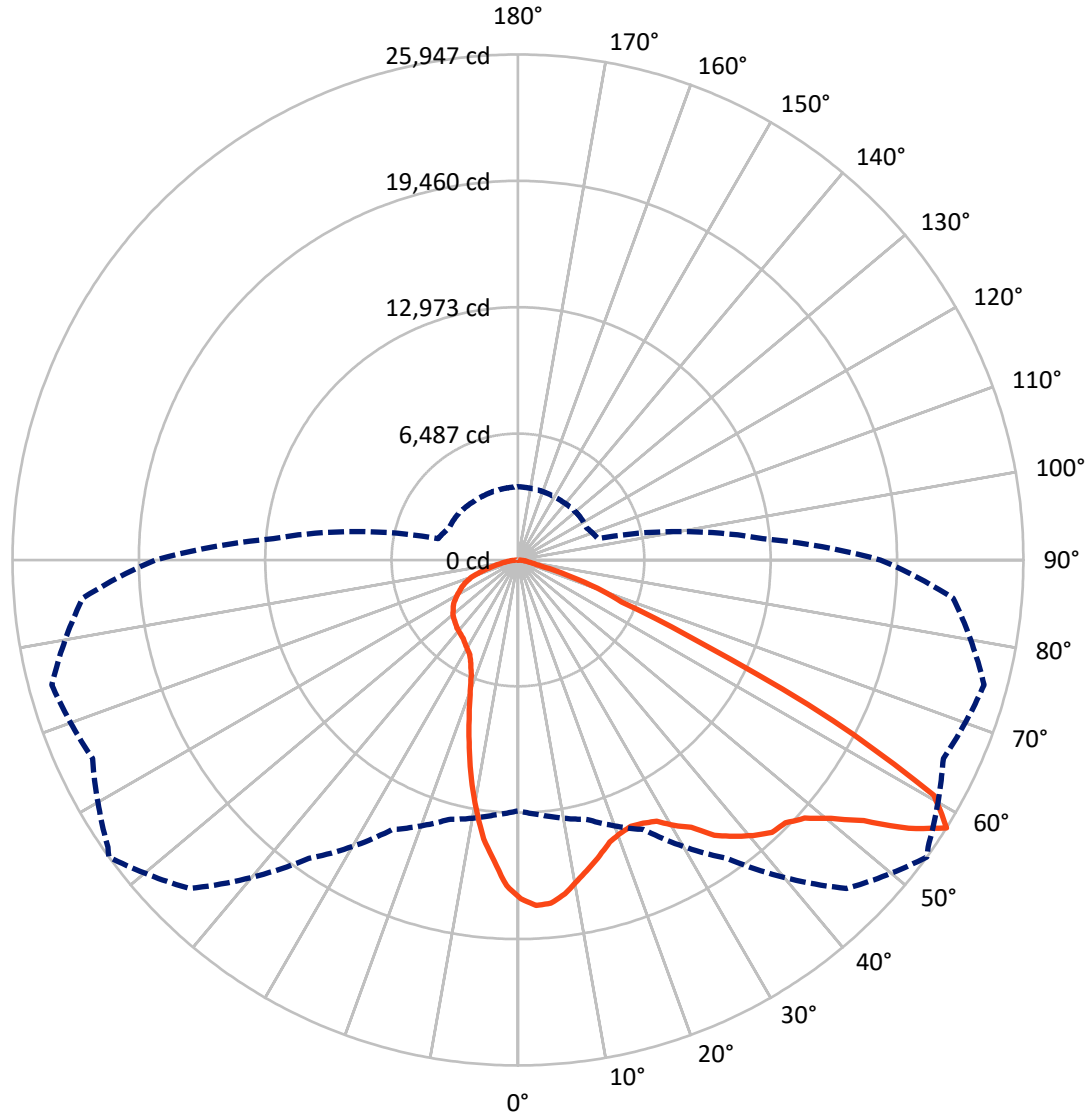
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 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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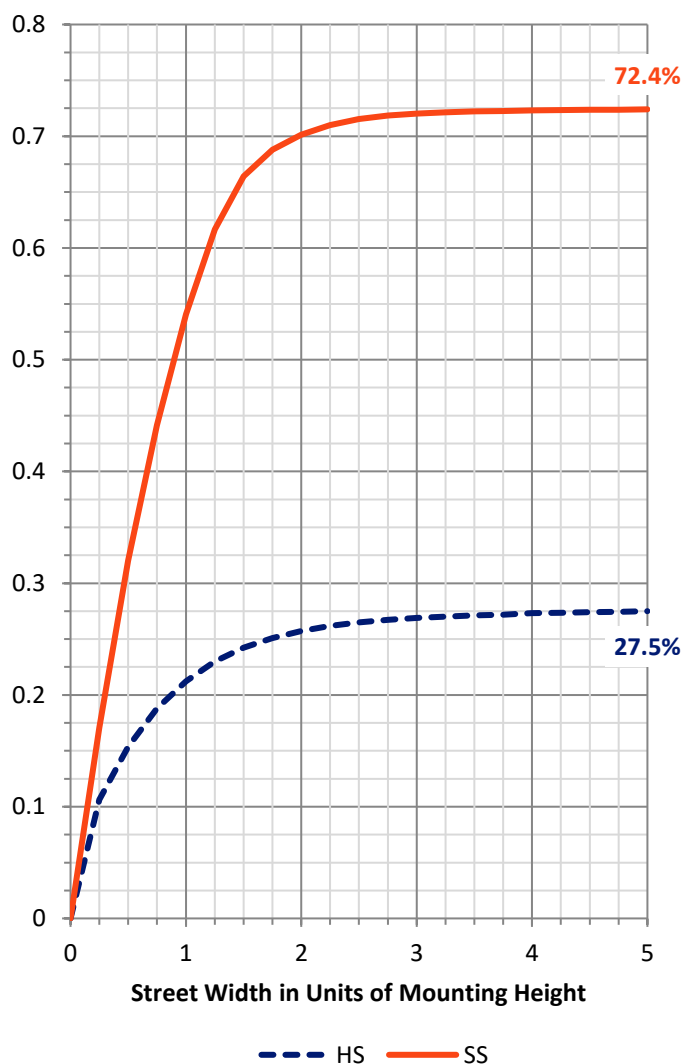
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12377.6	0.0	12377.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	32362.4	0.0	32362.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	44740.0	0.0	44740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.7	3.4
10°-20°	3472.4	7.8
20°-30°	4878.7	10.9
30°-40°	6820.5	15.2
40°-50°	9233.7	20.6
50°-60°	11247.0	25.1
60°-70°	5857.9	13.1
70°-80°	1501.0	3.4
80°-90°	229.0	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°	44740.0	100.0
0°-180°	44740.0	100.0

Coefficient of Utilization



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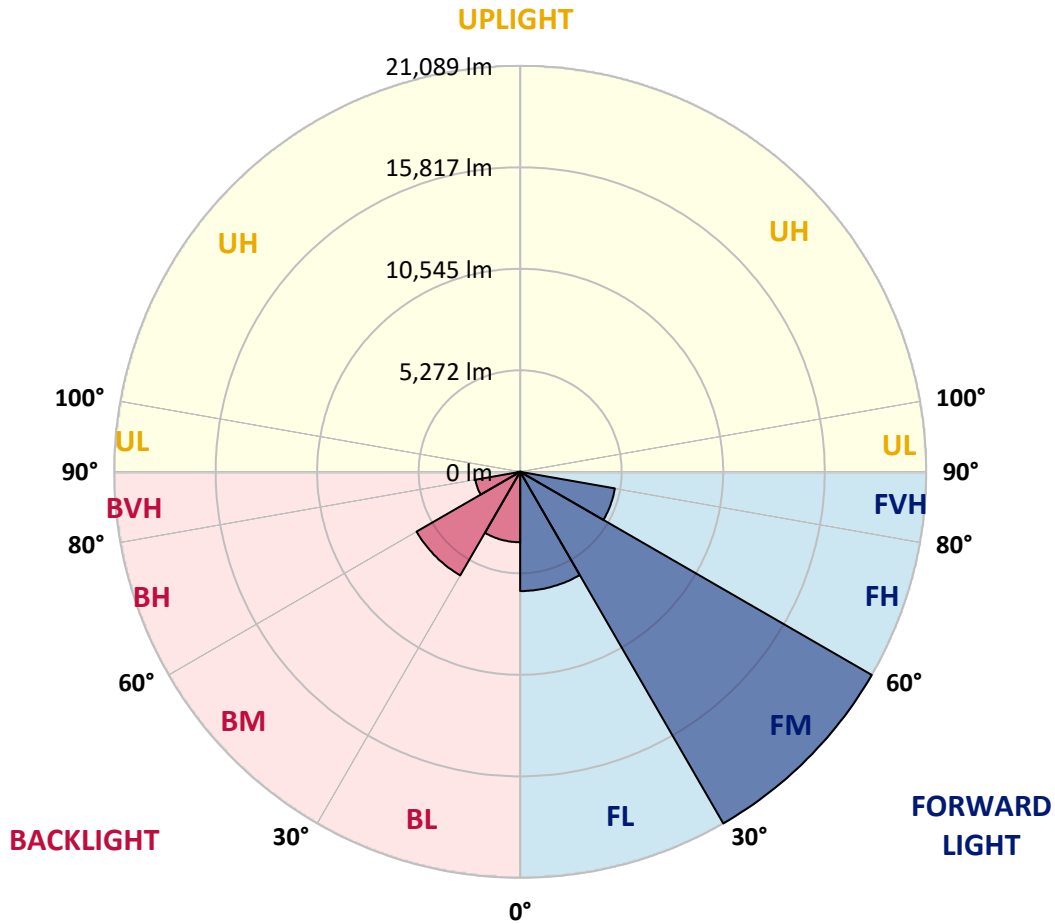
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6192.6	13.8			
FM (30°-60°)	21089.1	47.1			
FH (60°-80°)	4994.2	11.2			G2/5000
FVH (80°-90°)	86.5	0.2			G1/100
BL (0°-30°)	3658.2	8.2	B4/5000		
BM (30°-60°)	6212.2	13.9	B4/8500		
BH (60°-80°)	2364.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	142.5	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°	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9
2.5°	17884.5	17815.5	17827.0	17919.0	17804.0	17758.0	17758.0	17533.7	17550.9	17395.7	17355.4
5°	17470.4	17309.4	17418.7	17556.7	17579.7	17625.7	17700.5	17643.0	17481.9	17315.2	17044.9
7.5°	16389.3	16533.1	16573.3	16671.1	16878.1	17067.9	17303.7	17142.6	17136.9	16970.1	16809.1
10°	15440.5	15354.2	15572.7	15716.5	16061.5	16377.8	16740.1	16722.9	16809.1	16619.3	16343.3
12.5°	14497.4	14428.3	14531.9	14859.6	15342.7	15802.7	16234.0	16073.0	16533.1	16498.6	15906.3
15°	13496.7	13548.5	13698.0	14002.8	14635.4	15187.4	15733.7	15739.5	16147.8	16285.8	15492.2
17.5°	12795.2	12737.7	12927.4	13381.7	13945.3	14606.6	15227.7	15354.2	15981.0	16061.5	15365.7
20°	12271.9	12352.4	12599.6	12829.7	13479.5	14278.8	14980.4	15026.4	15946.5	16165.0	15164.4
22.5°	12145.3	12099.3	12179.8	12553.6	13088.4	13956.8	14848.1	15020.7	15940.8	16130.5	14784.9
25°	12013.1	12162.6	12156.8	12530.6	12921.7	13698.0	14957.4	15147.2	16245.5	16308.8	14836.6
27.5°	12312.1	12294.9	12455.9	12484.6	12967.7	13767.0	15187.4	15331.2	16751.6	16699.8	14876.9
30°	12611.1	12524.9	12622.6	12961.9	13186.2	14163.8	15820.0	15808.5	17407.2	17372.7	15003.4
32.5°	12979.2	12938.9	13002.2	13301.2	13680.8	14692.9	16354.8	16694.1	18074.3	18292.8	15440.5
35°	13048.2	13215.0	13364.5	13767.0	14307.6	15549.7	17361.2	17643.0	18844.8	19529.2	16274.3
37.5°	13485.2	13548.5	13899.3	14612.4	15106.9	16694.1	17999.5	18177.8	19546.4	20322.8	17154.1
40°	13951.0	14025.8	14554.9	15302.4	15981.0	17441.7	18597.6	18655.1	19770.7	20932.3	17729.2
42.5°	14583.6	14652.6	15175.9	16113.3	17021.9	18080.0	19126.6	19189.9	19753.4	21633.9	18643.6
45°	15239.2	15406.0	16021.3	17085.1	17901.7	18827.6	19247.4	19506.2	19914.5	22260.7	19385.4
47.5°	16159.3	16314.6	16820.6	17861.5	18816.1	19483.2	19805.2	20058.2	20299.7	22807.0	19862.7
50°	17136.9	17165.7	17781.0	18724.1	19425.7	20225.0	20846.1	20932.3	20805.8	23439.6	20673.5
52.5°	17855.7	17947.7	18425.0	19345.1	20391.8	21375.1	22226.2	22318.2	22070.9	23675.4	20949.6
55°	16665.3	16613.6	17389.9	18614.8	21041.6	23088.8	24325.2	24394.2	22991.0	24405.7	21852.4
57.5°	12881.4	13128.7	13790.0	15267.9	18695.3	23847.9	25946.9	25699.6	24095.2	24773.7	22427.5
60°	9362.0	9304.5	9747.3	10736.4	14089.1	20552.8	24532.2	24785.2	23192.3	22329.7	18494.0
62.5°	7625.3	7544.8	7579.3	7613.8	9091.8	13640.5	18160.5	18154.8	17861.5	16050.0	12473.1
65°	6095.7	6285.4	6302.7	6561.5	6751.2	8148.7	10523.7	11087.2	9655.3	7918.6	5744.9
67.5°	4594.8	4525.8	4755.8	5675.9	6032.4	5882.9	5744.9	5808.1	4129.0	2978.8	2806.3
70°	2708.5	2679.8	2955.8	3956.4	4968.6	4675.3	4330.2	4336.0	2835.1	2081.7	2317.5
72.5°	1483.7	1477.9	1535.4	2007.0	2823.6	2932.8	2599.3	2679.8	1690.7	1684.9	1811.5
75°	828.1	810.8	793.6	885.6	1017.9	1075.4	1098.4	1109.9	1161.6	1299.6	1351.4
77.5°	304.8	293.3	293.3	339.3	431.3	540.6	684.3	695.8	822.3	943.1	994.9
80°	103.5	115.0	155.3	212.8	287.5	385.3	465.8	477.3	580.8	661.3	678.6
82.5°	63.3	69.0	103.5	149.5	207.0	270.3	345.0	350.8	431.3	483.1	506.1
85°	28.8	34.5	57.5	92.0	132.3	178.3	184.0	184.0	178.3	184.0	172.5
87.5°	0.0	0.0	11.5	11.5	11.5	17.3	23.0	17.3	28.8	34.5	34.5
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°	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9	17389.9
2.5°	17234.7	17171.4	16975.9	16803.4	16751.6	16521.6	16182.3	16222.5	15975.3	16090.3	15969.5
5°	16998.9	16786.1	16285.8	16073.0	15515.2	15262.2	15089.7	14658.4	14457.1	14416.8	14244.3
7.5°	16395.1	16262.8	15636.0	15060.9	14468.6	13962.5	13312.7	12869.9	12553.6	12467.4	12214.4
10°	15917.8	15624.5	14756.1	13882.0	13036.7	12156.8	11311.5	10650.2	10328.1	9954.4	9827.8
12.5°	15446.2	15003.4	13830.3	12708.9	11616.3	10506.4	9482.8	8677.7	7976.1	7809.4	7751.9
15°	15152.9	14382.3	13002.2	11650.8	10098.1	8649.0	7625.3	7096.3	6665.0	6486.7	6613.2
17.5°	14767.6	13870.5	12208.6	10408.7	8700.7	7366.6	6509.7	6181.9	6026.7	6043.9	5992.2
20°	14284.6	13387.5	11167.7	9281.5	7452.8	6389.0	5900.2	5779.4	5802.4	5842.6	5825.4
22.5°	13939.5	12800.9	10414.4	8131.4	6440.7	5848.4	5647.1	5560.9	5635.6	5670.1	5641.4
25°	13675.0	12300.6	9500.1	7113.5	5854.1	5543.6	5451.6	5445.9	5560.9	5606.9	5578.1
27.5°	13433.5	11834.8	8591.5	6337.2	5463.1	5307.8	5279.1	5348.1	5422.9	5468.9	5509.1
30°	13289.7	11478.3	7740.4	5687.4	5267.6	5192.8	5141.1	5204.3	5244.6	5290.6	5267.6
32.5°	13427.7	11225.2	6918.0	5319.3	5106.6	5031.8	5100.8	5060.6	5129.6	5169.8	5106.6
35°	13859.0	11001.0	6331.5	5123.8	4922.5	4951.3	4962.8	4945.5	4974.3	4939.8	5014.6
37.5°	14284.6	10920.5	5790.9	4957.0	4836.3	4836.3	4824.8	4790.3	4847.8	4836.3	4870.8
40°	14825.1	10972.2	5330.8	4778.8	4755.8	4744.3	4698.3	4692.5	4669.5	4675.3	4686.8
42.5°	15296.7	11087.2	5066.3	4663.8	4681.0	4704.0	4617.8	4548.8	4577.5	4520.0	4520.0
45°	15797.0	11190.7	4830.5	4583.3	4566.0	4560.3	4491.2	4451.0	4428.0	4433.7	4485.5
47.5°	16584.8	11340.3	4652.3	4474.0	4485.5	4399.2	4382.0	4330.2	4353.2	4387.7	4393.5
50°	17142.6	11656.5	4514.2	4347.5	4387.7	4330.2	4226.7	4203.7	4203.7	4261.2	4249.7
52.5°	17533.7	12099.3	4382.0	4209.5	4226.7	4180.7	4146.2	4094.5	4059.9	4140.5	4180.7
55°	18729.8	12835.4	4347.5	4094.5	4088.7	4042.7	3979.4	3927.7	3910.4	3921.9	4002.4
57.5°	18614.8	12605.4	4238.2	3893.2	3881.7	3818.4	3755.2	3737.9	3732.2	3743.7	3766.7
60°	15112.7	9310.3	3783.9	3663.2	3645.9	3634.4	3571.1	3502.1	3467.6	3502.1	3473.4
62.5°	10000.4	6233.7	3335.4	3387.1	3398.6	3369.9	3266.4	3197.4	3208.9	3249.1	3185.9
65°	4911.0	3663.2	3024.8	3162.9	3174.4	3093.8	2996.1	2915.6	2875.3	2909.8	2881.1
67.5°	2806.3	2800.6	2771.8	2915.6	2909.8	2829.3	2674.0	2605.0	2536.0	2547.5	2530.3
70°	2380.8	2426.8	2484.3	2570.5	2564.8	2472.8	2288.8	2237.0	2139.2	2127.7	2099.0
72.5°	1874.7	1955.2	2081.7	2145.0	2093.2	1978.2	1857.5	1771.2	1684.9	1633.2	1650.4
75°	1391.7	1506.7	1575.7	1615.9	1535.4	1472.2	1374.4	1270.9	1167.4	1121.4	1104.1
77.5°	1012.1	1046.6	1109.9	1138.6	1086.9	1023.6	966.1	862.6	764.8	701.6	684.3
80°	707.3	730.3	776.3	776.3	776.3	747.6	672.8	569.3	506.1	448.5	437.0
82.5°	494.6	517.6	563.6	540.6	534.8	500.3	454.3	373.8	304.8	264.5	253.0
85°	172.5	189.8	230.0	276.0	293.3	287.5	258.8	207.0	161.0	132.3	120.8
87.5°	40.3	40.3	46.0	40.3	40.3	46.0	40.3	40.3	40.3	28.8	23.0
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)