

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: P534290

Luminaire Tested: **GALN-SA9D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534290
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-SA9D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 55373 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

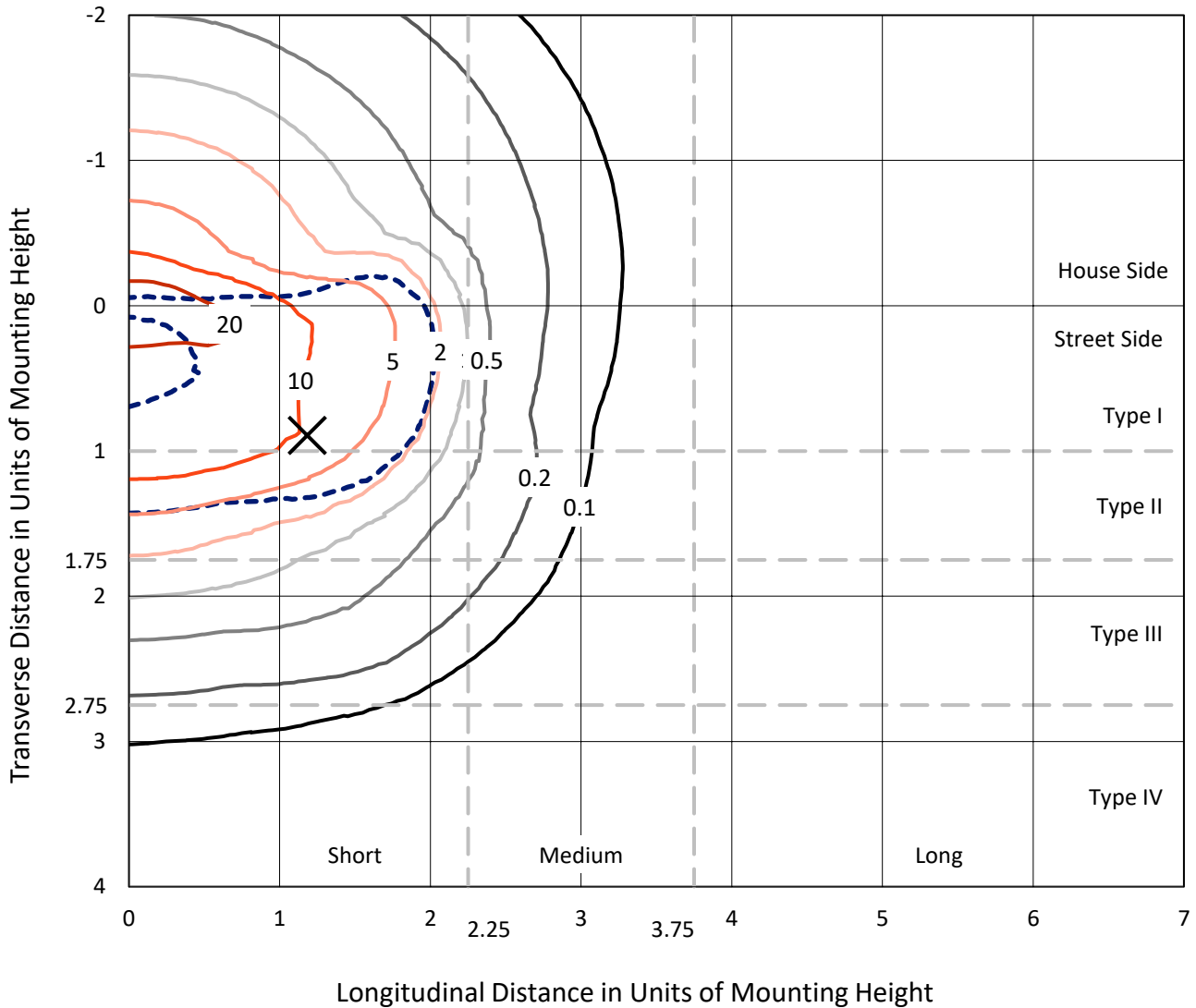
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534290
 CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

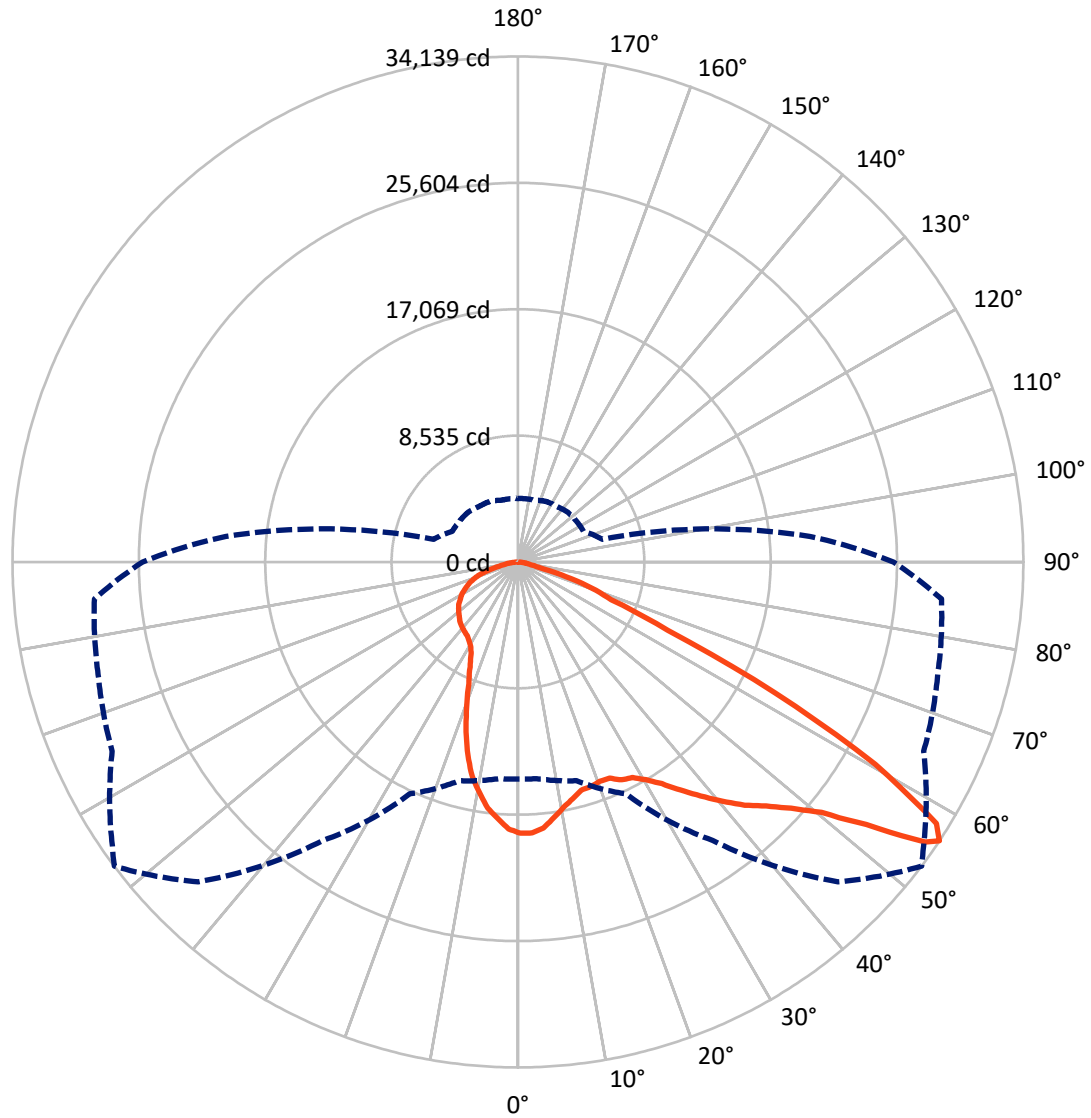
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.3 fc
 Type II - Short - N/A

REPORT NUMBER: P534290
CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P534290
 CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

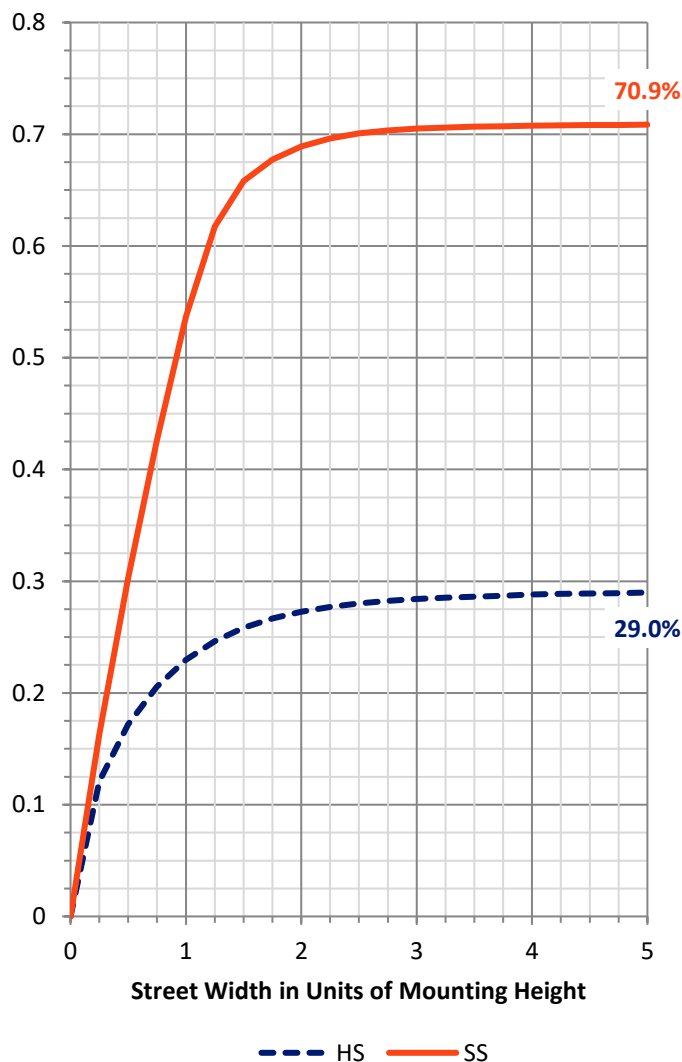
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16159.1	0.0	16159.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	39213.9	0.0	39213.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	55373.0	0.0	55373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1621.8	2.9
10°-20°	4050.6	7.3
20°-30°	5972.9	10.8
30°-40°	8534.1	15.4
40°-50°	11746.1	21.2
50°-60°	13880.7	25.1
60°-70°	7397.5	13.4
70°-80°	1876.7	3.4
80°-90°	292.6	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°	55373.0	100.0
0°-180°	55373.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534290

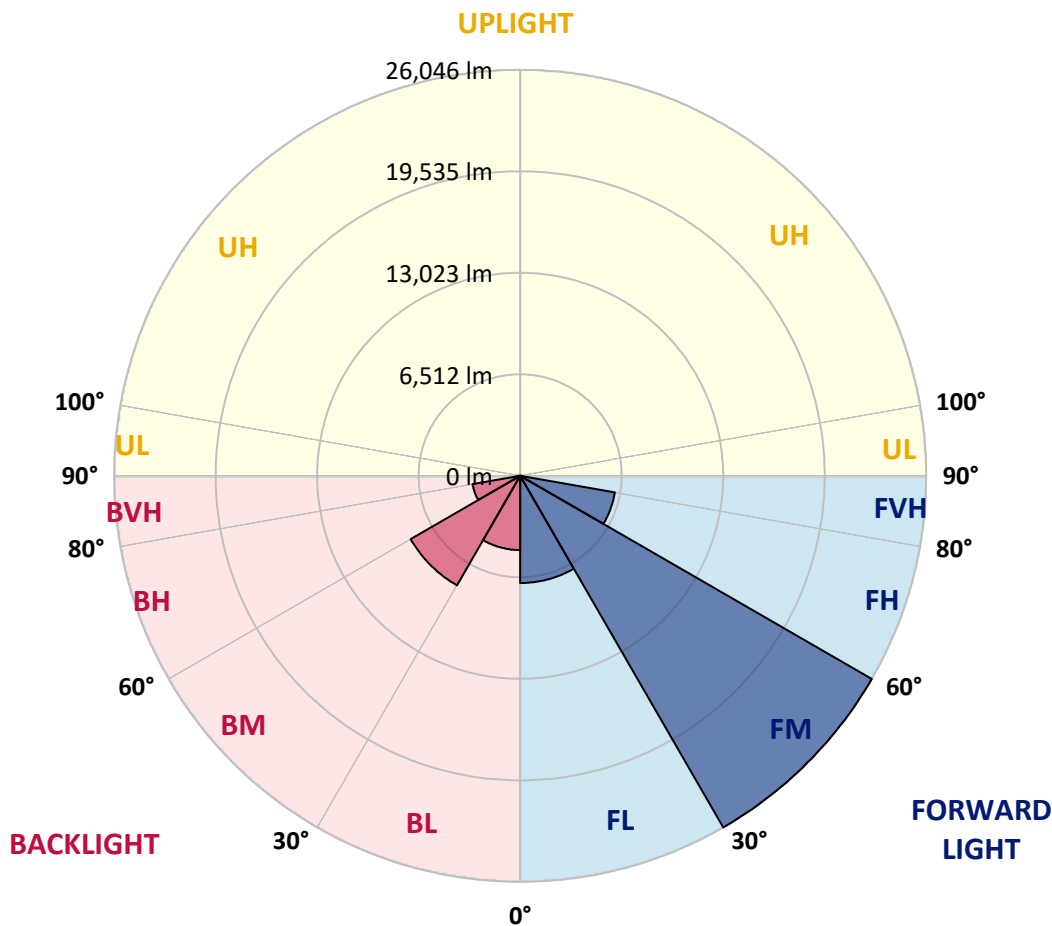
CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6879.3	12.4			
FM (30°-60°)	26046.4	47.0			
FH (60°-80°)	6170.6	11.1			G3/7500
FVH (80°-90°)	117.6	0.2			G2/225
BL (0°-30°)	4766.0	8.6	B4/5000		
BM (30°-60°)	8114.5	14.7	B4/8500		
BH (60°-80°)	3103.6	5.6	B4/5000		G4/5000
BVH (80°-90°)	175.0	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-G4

Type II Short





REPORT NUMBER: P534290

CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6
2.5°	18092.3	17936.0	18028.3	17992.8	18284.1	18369.3	18326.7	18362.2	18525.6	18447.4	18284.1
5°	16906.0	17126.2	17168.8	17275.4	17445.9	17779.7	18042.5	18113.6	18191.7	18554.0	18518.5
7.5°	15826.3	15975.5	15897.3	16209.9	16579.2	17119.1	17438.8	17495.6	18213.0	18411.9	18561.1
10°	15144.4	14995.2	15350.4	15435.6	15854.7	16472.7	16856.3	17090.7	17744.2	18532.7	18625.0
12.5°	14512.2	14462.4	14675.5	14917.1	15385.9	16025.2	16415.9	16508.2	17516.9	18348.0	18781.3
15°	14043.3	13986.5	14199.6	14377.2	14924.2	15492.4	15989.7	16252.5	17268.3	18241.4	18646.3
17.5°	13674.0	13666.9	13787.6	14107.3	14668.4	15144.4	15947.0	15961.3	17140.4	18404.8	18760.0
20°	13652.7	13645.6	13666.9	14022.0	14533.5	15116.0	15812.1	15939.9	17140.4	18291.2	18767.1
22.5°	13830.2	13716.6	13844.5	14071.8	14441.1	15165.7	15861.8	16145.9	17552.4	18852.3	19086.7
25°	14114.4	14142.8	14213.8	14292.0	14505.1	15279.3	16302.2	16536.6	18035.4	19335.4	19527.1
27.5°	14632.9	14618.7	14647.1	14689.8	14874.4	15385.9	16479.8	17083.6	19044.1	20194.9	20003.1
30°	15393.0	15343.3	15456.9	15606.1	15435.6	15726.8	17069.4	17524.0	19981.8	21061.5	20535.8
32.5°	16082.0	16266.7	16479.8	16543.7	16337.7	16394.6	17850.7	18312.5	20763.1	22127.0	21189.3
35°	16941.5	17090.7	17374.8	17573.7	17538.2	17367.7	18916.3	19527.1	21892.6	22908.3	21878.4
37.5°	17779.7	17957.3	18426.1	19015.7	18688.9	18610.8	20052.8	20557.1	22240.6	23327.4	22382.7
40°	19129.4	19122.3	19932.0	20237.5	20528.7	20393.8	21231.9	21402.4	22425.3	23235.1	22396.9
42.5°	20713.4	20614.0	21437.9	21913.9	22290.4	22304.6	22460.8	22404.0	22510.6	22766.3	22247.7
45°	22219.3	22432.4	23263.5	24115.9	24492.4	24535.0	23497.9	23391.4	22659.7	22631.3	21963.6
47.5°	24059.1	24108.8	24790.7	25913.1	26786.8	26488.4	24840.5	24606.0	23313.2	23533.4	22439.5
50°	24165.6	24535.0	25145.9	26467.1	29152.2	29074.1	26580.8	26140.4	24364.5	24812.0	23767.8
52.5°	21935.2	21849.9	22574.5	24733.9	28974.6	31645.5	29464.7	28413.4	26623.4	26282.4	25920.2
55°	16714.2	16913.1	17552.4	19733.1	25160.1	31681.0	33392.9	32533.4	29038.5	28456.1	28037.0
56°	14661.3	14689.8	15293.5	17282.5	22958.1	30551.6	34138.8	33442.6	30239.0	29351.1	28711.8
57.5°	12153.9	11990.5	12303.0	13389.8	19378.0	28164.8	33321.9	34003.8	31645.5	30317.1	29429.2
60°	9568.2	9532.7	9404.9	9603.7	12246.2	21217.7	27738.6	29273.0	31503.4	29407.9	28186.1
62.5°	7813.7	7636.1	7891.8	8176.0	8509.8	13162.5	19491.6	20393.8	25010.9	23476.6	21175.1
65°	6059.2	5973.9	6293.6	7217.0	7415.9	8360.7	11102.6	11798.7	14767.9	14505.1	12771.8
67.5°	4169.7	4183.9	4460.9	5867.4	6876.1	6790.8	6797.9	7160.2	7707.1	5725.3	4986.6
70°	2642.5	2635.3	2784.5	3779.0	5533.5	5590.3	5306.2	5199.7	4929.7	2983.4	3161.0
72.5°	1697.7	1648.0	1726.1	2088.4	2862.7	3310.2	3409.6	3473.5	2855.6	2344.1	2543.0
75°	959.0	909.2	880.8	973.2	1129.4	1307.0	1434.9	1477.5	1655.1	1775.8	1882.4
77.5°	291.2	262.8	319.7	426.2	561.2	753.0	916.3	944.7	1115.2	1257.3	1363.8
80°	127.9	142.1	198.9	284.1	397.8	532.8	646.4	689.0	802.7	909.2	937.6
82.5°	78.1	85.2	135.0	191.8	277.0	376.5	461.7	475.9	589.6	674.8	696.1
85°	28.4	35.5	71.0	113.7	177.6	241.5	241.5	262.8	241.5	241.5	262.8
87.5°	0.0	0.0	7.1	14.2	14.2	21.3	28.4	28.4	35.5	42.6	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534290

CATALOG NUMBER: GALN-SA9D-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6	18319.6
2.5°	18369.3	18333.8	18277.0	18071.0	18049.6	17985.7	17630.5	17573.7	17630.5	17460.1	17474.3
5°	18333.8	18440.3	18014.1	17808.1	17424.5	17147.5	16827.9	16664.5	16373.2	16188.6	16394.6
7.5°	18490.1	18447.4	17914.7	17467.2	16891.8	16188.6	15627.4	15307.7	14796.3	14654.2	14760.8
10°	18433.2	18205.9	17580.8	16991.2	15904.4	15286.4	14377.2	13496.4	13013.4	12764.7	12729.2
12.5°	18355.1	18291.2	17247.0	16231.2	15087.5	13787.6	12509.0	11677.9	10889.5	10548.5	10598.2
15°	18447.4	17907.6	16621.9	15336.2	13816.0	12111.2	10733.2	9660.6	9113.6	8893.4	8893.4
17.5°	18404.8	17722.9	16323.5	14334.6	12409.6	10392.2	8879.2	8232.8	8005.5	8005.5	8069.4
20°	18426.1	17843.6	15719.7	13333.0	10747.4	8751.3	7650.3	7415.9	7515.4	7550.9	7586.4
22.5°	18546.9	17445.9	15130.2	12232.0	9206.0	7486.9	6947.1	6954.2	7131.8	7323.6	7288.0
25°	18696.0	17289.6	14412.7	11138.1	8026.8	6869.0	6698.5	6677.2	6812.1	6911.6	6925.8
27.5°	18568.2	17019.7	13681.1	9774.2	7060.7	6457.0	6421.4	6435.6	6478.3	6677.2	6613.2
30°	18987.3	17097.8	12764.7	8630.6	6528.0	6322.0	6279.4	6258.1	6322.0	6378.8	6329.1
32.5°	19505.8	16820.8	12082.8	7529.6	6265.2	6222.5	6137.3	6108.9	6144.4	6087.6	6116.0
35°	19733.1	16771.0	11194.9	6741.1	6059.2	6023.7	5973.9	5966.8	5973.9	5924.2	5881.6
37.5°	19861.0	17005.4	10179.1	6378.8	5931.3	5966.8	5853.2	5839.0	5711.1	5739.5	5760.8
40°	20081.2	16643.2	9355.1	6030.8	5853.2	5782.1	5682.7	5661.4	5576.1	5526.4	5576.1
42.5°	19761.6	16536.6	8545.3	5881.6	5739.5	5661.4	5590.3	5469.6	5441.2	5398.6	5370.1
45°	19505.8	15925.7	7820.8	5696.9	5604.6	5561.9	5427.0	5299.1	5192.6	5235.2	5171.2
47.5°	19697.6	15712.6	7103.4	5540.6	5419.9	5370.1	5235.2	5135.7	5029.2	4979.5	4965.3
50°	20464.8	16110.4	6499.6	5427.0	5263.6	5235.2	5057.6	4943.9	4844.5	4809.0	4823.2
52.5°	22297.5	17197.2	6087.6	5192.6	5114.4	4986.6	4887.1	4745.0	4681.1	4567.5	4638.5
55°	24620.3	18966.0	5981.0	4972.4	4929.7	4816.1	4681.1	4574.6	4453.8	4361.5	4340.2
56°	25366.1	19811.3	5895.8	4887.1	4816.1	4752.1	4574.6	4510.6	4318.8	4297.5	4283.3
57.5°	25969.9	20557.1	5910.0	4723.7	4652.7	4595.9	4489.3	4333.1	4205.2	4127.1	4162.6
60°	24606.0	19243.0	5640.1	4475.1	4460.9	4354.4	4205.2	4134.2	3977.9	3885.5	3864.2
62.5°	18291.2	13063.1	4574.6	4155.5	4148.4	4034.7	3864.2	3786.1	3757.7	3629.8	3629.8
65°	10534.3	8190.2	3956.6	3892.6	3835.8	3722.2	3551.7	3487.8	3416.7	3374.1	3338.6
67.5°	4496.4	4247.8	3594.3	3587.2	3523.3	3381.2	3210.7	3111.3	3018.9	2933.7	2976.3
70°	3260.4	3310.2	3246.2	3210.7	3132.6	2955.0	2805.8	2685.1	2543.0	2486.2	2528.8
72.5°	2585.6	2692.2	2784.5	2791.6	2699.3	2493.3	2329.9	2166.5	2010.3	1932.1	1967.6
75°	1960.5	2031.6	2123.9	2145.2	2010.3	1868.2	1711.9	1541.4	1420.7	1328.3	1342.5
77.5°	1413.6	1399.4	1484.6	1470.4	1406.5	1307.0	1165.0	1008.7	873.7	788.5	795.6
80°	966.1	987.4	1037.1	1030.0	951.9	887.9	781.4	653.5	554.1	483.0	468.8
82.5°	674.8	710.3	753.0	717.4	653.5	589.6	511.4	419.1	341.0	284.1	269.9
85°	241.5	277.0	319.7	341.0	362.3	348.1	291.2	234.4	170.5	142.1	135.0
87.5°	49.7	56.8	63.9	63.9	63.9	56.8	49.7	49.7	42.6	21.3	21.3
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)