

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: P651012

Luminaire Tested: **GALN-SA7C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41107.2 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

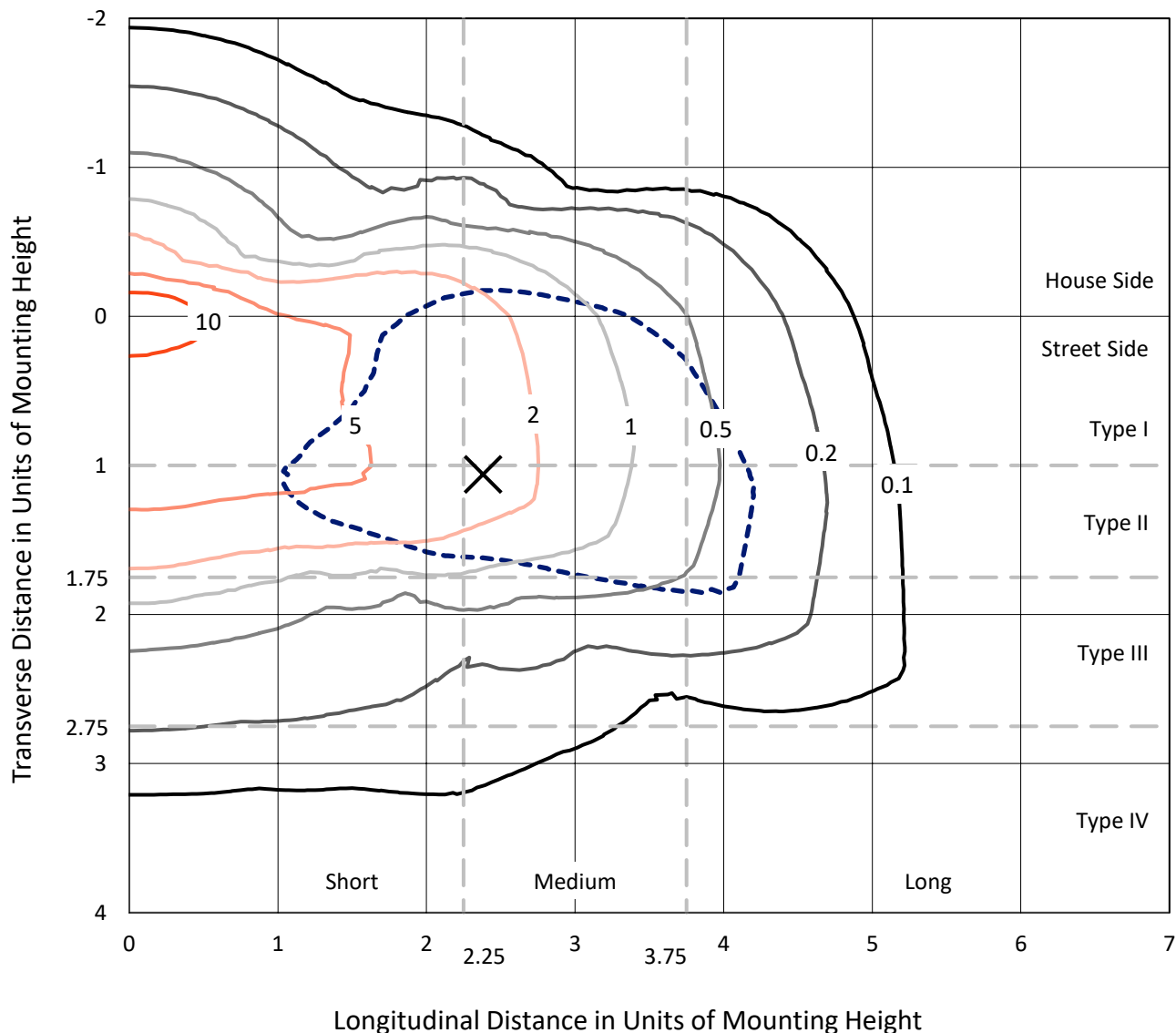
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

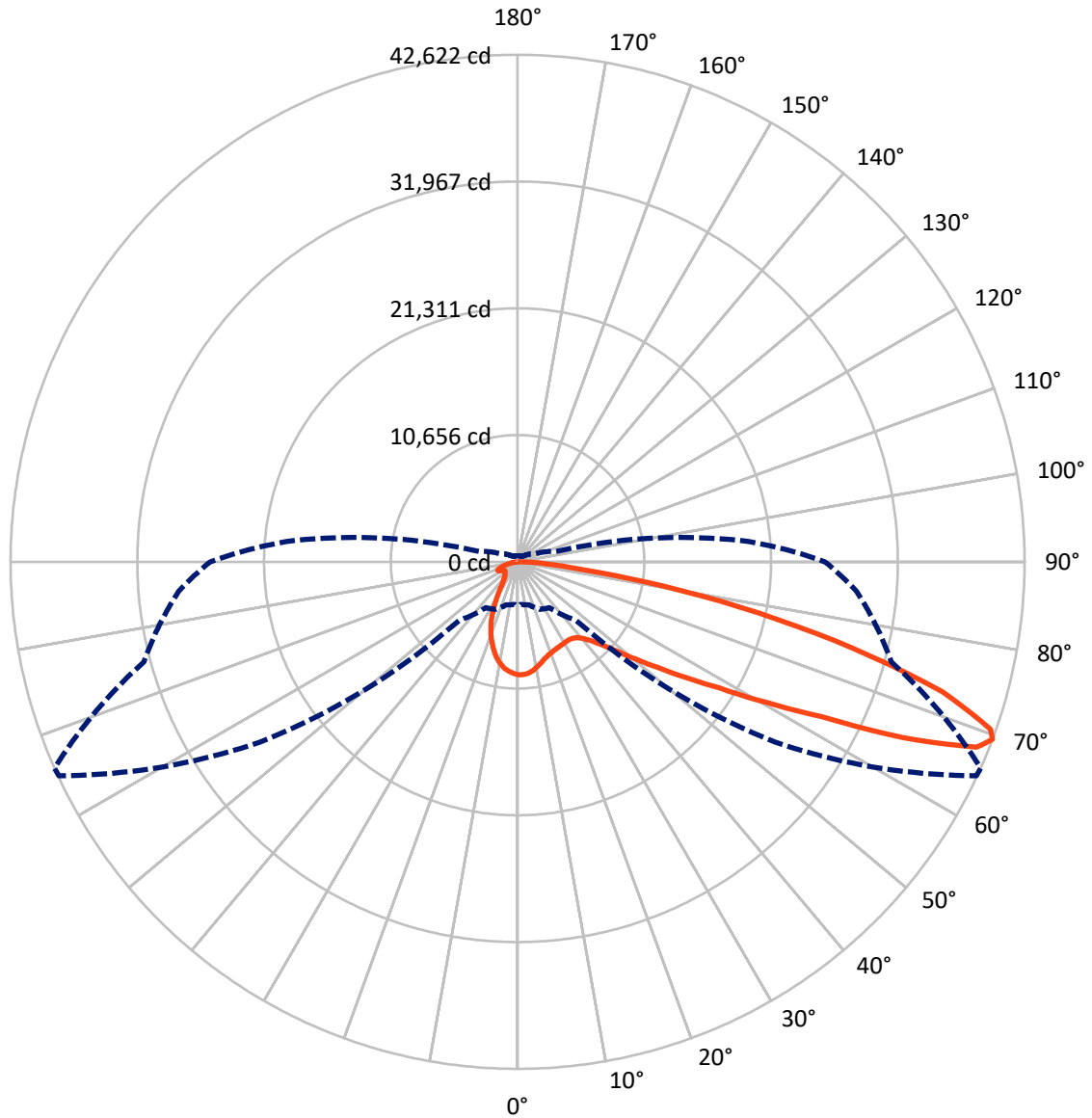
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7730.7	0.0	7730.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33376.5	0.0	33376.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	41107.2	0.0	41107.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.3	2.0
10°-20°	1955.3	4.8
20°-30°	2661.9	6.5
30°-40°	3577.0	8.7
40°-50°	5341.0	13.0
50°-60°	8495.7	20.7
60°-70°	10449.3	25.4
70°-80°	6798.8	16.5
80°-90°	1004.0	2.4
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°	41107.2	100.0
0°-180°	41107.2	100.0

Coefficient of Utilization

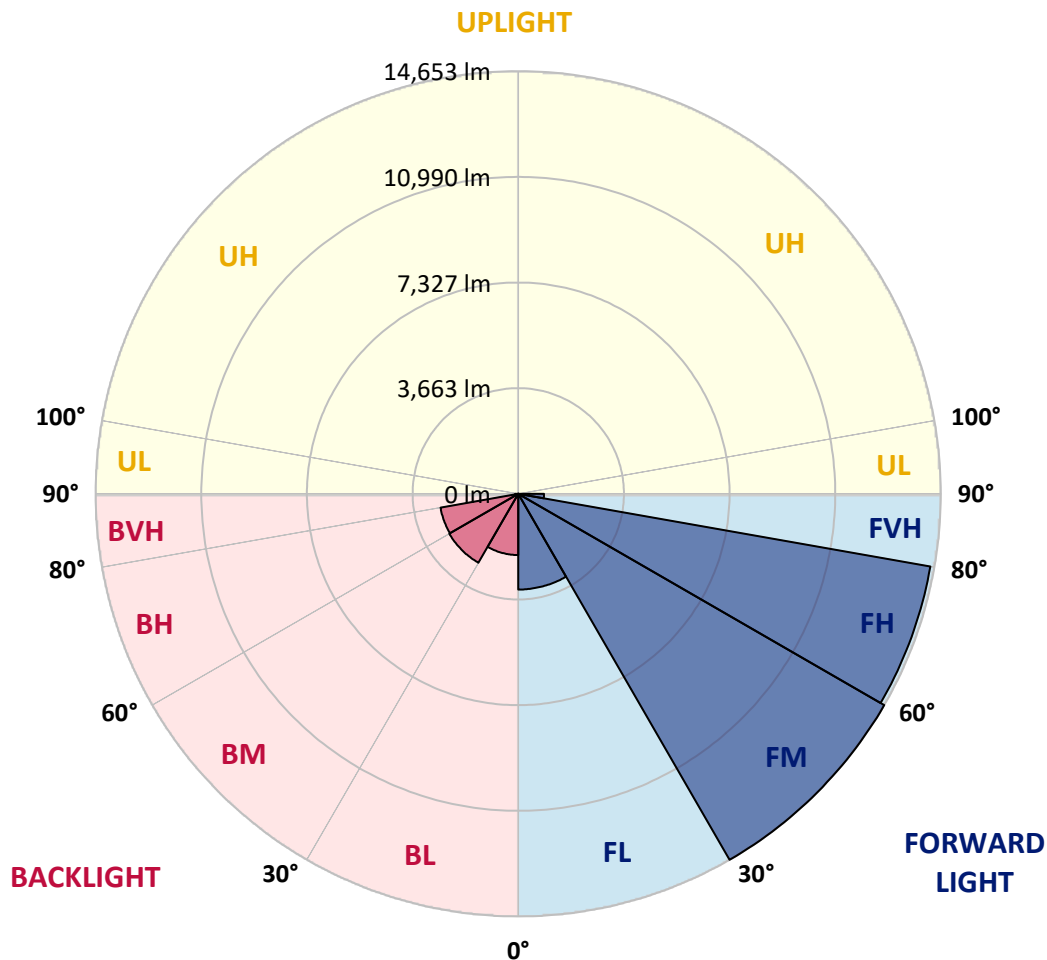


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3319.4	8.1			
FM (30°-60°)	14653.5	35.6			
FH (60°-80°)	14511.1	35.3			G5
FVH (80°-90°)	892.6	2.2			G5
BL (0°-30°)	2122.1	5.2	B3/2500		
BM (30°-60°)	2760.2	6.7	B3/5000		
BH (60°-80°)	2737.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	111.4	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8
2.5°	9160.4	9196.8	9237.9	9283.4	9369.8	9417.7	9451.8	9490.5	9495.1	9515.6	9499.6
5°	8484.3	8527.6	8589.0	8675.6	8805.4	9008.0	9217.4	9388.1	9408.6	9504.2	9531.5
7.5°	7919.8	7944.8	7994.9	8133.7	8318.2	8543.6	8848.6	9194.6	9244.7	9472.4	9552.0
10°	7459.9	7485.0	7544.2	7687.6	7869.7	8152.0	8486.6	8941.9	8982.9	9374.5	9556.5
12.5°	7116.2	7138.9	7202.7	7343.9	7553.3	7817.3	8186.1	8668.7	8727.9	9244.7	9513.3
15°	6854.4	6897.6	6950.0	7066.1	7286.9	7541.9	7899.3	8418.3	8466.1	9108.1	9483.7
17.5°	6742.9	6763.3	6799.7	6906.7	7068.4	7318.8	7678.5	8222.5	8279.5	9012.5	9476.9
20°	6747.4	6767.9	6774.8	6833.9	6950.0	7166.2	7521.4	8067.7	8136.0	8928.2	9488.2
22.5°	6902.2	6904.4	6879.5	6858.9	6904.4	7084.3	7409.9	7951.7	8031.3	8891.8	9497.3
25°	7141.3	7182.2	7145.8	7050.2	6965.9	7052.5	7366.6	7887.9	7963.0	8839.5	9486.0
27.5°	7528.2	7535.0	7505.4	7375.7	7157.2	7093.4	7348.4	7840.1	7903.8	8800.7	9429.0
30°	8047.3	8026.8	7999.4	7856.0	7512.3	7250.5	7387.1	7796.8	7862.8	8743.9	9360.8
32.5°	8573.2	8636.8	8611.8	8443.4	7997.2	7555.5	7512.3	7792.3	7847.0	8700.6	9285.6
35°	9130.8	9160.4	9278.8	9192.3	8734.7	8049.5	7746.8	7862.8	7906.2	8702.8	9233.3
37.5°	9567.9	9647.6	9925.3	10000.4	9570.2	8702.8	8126.9	8063.2	8081.4	8814.4	9253.8
40°	10096.0	10232.6	10590.0	10897.3	10615.1	9552.0	8773.5	8434.2	8457.0	9083.1	9388.1
42.5°	10765.3	10860.9	11341.3	11757.9	11712.4	10674.3	9556.5	9042.1	9053.4	9618.0	9763.7
45°	11548.4	11685.0	12224.5	12850.6	12957.5	11944.6	10687.9	9961.7	9954.9	10448.9	10464.8
47.5°	12550.1	12634.3	13169.3	13852.2	14284.7	13540.4	12060.6	11282.1	11209.3	11660.0	11530.2
50°	13472.1	13604.1	14009.3	14755.9	15832.8	15409.3	13865.9	12994.0	12823.2	13244.4	13025.8
52.5°	13859.0	13997.9	14339.4	15265.9	17159.9	17826.9	16158.2	15036.0	14751.4	15074.7	14994.9
55°	13187.5	13367.4	13686.0	14812.9	17742.7	20615.5	19249.6	17396.7	17189.5	17050.6	17073.4
57.5°	11382.3	11553.0	11983.2	13226.2	17046.1	22639.3	23663.7	20431.2	19987.2	19347.5	19456.9
60°	8664.2	8771.2	8994.2	10371.5	14981.3	23165.2	28676.5	24267.0	23984.7	21635.4	21712.8
62.5°	6153.3	6273.9	6428.7	7116.2	10968.0	21683.2	32601.0	29623.5	28615.0	24005.2	23930.1
65°	4996.8	4914.9	5101.5	5422.5	6435.5	16804.8	33484.3	37058.3	35669.8	27126.2	26083.6
67.5°	4109.0	4022.5	4206.9	4778.3	4894.4	9754.6	30301.8	41884.4	41606.7	30520.4	28271.2
69°	3637.7	3592.2	3753.9	4404.9	4698.6	6927.2	26397.7	42556.0	42622.0	32521.4	28608.1
70°	3278.0	3296.3	3453.4	4216.0	4609.8	5711.7	22561.9	41629.5	42189.4	33520.7	28244.0
72.5°	2413.0	2451.8	2670.3	3492.1	4525.6	4846.6	13426.5	36361.7	37352.0	33580.0	25837.7
75°	1686.9	1668.6	1862.1	2629.3	4275.1	4803.3	7885.6	28121.0	29243.3	29024.8	21710.5
77.5°	1104.1	1133.7	1288.5	1857.6	3596.8	4766.9	5140.2	19950.8	20679.3	19411.3	12841.5
80°	778.5	776.2	862.8	1268.0	2668.0	4580.3	4209.1	12575.1	12390.7	7628.4	3808.5
82.5°	446.2	478.0	578.2	892.4	1784.8	4031.6	3872.2	6014.4	5490.8	2174.0	1286.2
85°	248.1	259.5	343.7	539.5	1042.6	3036.8	3380.6	2736.3	2581.5	908.3	553.2
87.5°	79.6	86.5	143.4	273.2	473.5	1434.2	1914.5	1263.4	1165.5	327.8	223.1
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°	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8	9492.8
2.5°	9506.5	9533.7	9460.9	9390.4	9326.6	9237.9	9158.2	9092.1	9046.6	9039.8	9017.0
5°	9538.4	9540.6	9401.7	9215.1	9032.9	8832.6	8625.5	8477.5	8338.7	8261.2	8222.5
7.5°	9561.1	9540.6	9290.2	8987.4	8636.8	8272.7	7908.4	7617.0	7391.6	7302.8	7337.0
10°	9552.0	9488.2	9121.7	8636.8	8126.9	7582.9	7059.3	6649.5	6273.9	6080.4	6085.0
12.5°	9501.9	9397.2	8871.4	8243.1	7494.1	6765.6	5964.3	5411.2	4976.4	4719.1	4639.4
15°	9458.6	9276.6	8577.7	7708.1	6777.0	5736.6	4760.1	4077.1	3712.9	3510.2	3508.0
17.5°	9413.1	9160.4	8256.7	7141.3	5952.9	4614.4	3590.0	3068.6	2897.9	2918.4	2884.3
20°	9365.3	9023.8	7922.1	6510.7	4949.0	3442.0	2688.5	2476.7	2524.6	2617.9	2631.6
22.5°	9310.7	8878.2	7562.4	5816.4	3892.7	2590.6	2180.9	2149.0	2271.9	2417.6	2438.1
25°	9226.4	8696.0	7109.4	5090.2	3002.6	2087.5	1909.9	1932.7	2053.4	2176.3	2190.0
27.5°	9108.1	8470.6	6651.8	4184.1	2256.0	1791.6	1746.0	1775.6	1834.8	1909.9	1928.2
30°	8948.7	8215.7	6125.9	3401.0	1807.5	1643.6	1625.4	1641.3	1675.4	1707.3	1716.5
32.5°	8789.4	7969.8	5595.5	2604.2	1611.7	1545.7	1527.5	1527.5	1527.5	1532.0	1534.3
35°	8641.4	7737.6	5026.4	2028.3	1509.3	1468.3	1443.2	1416.0	1411.4	1395.5	1395.5
37.5°	8559.4	7525.9	4420.9	1698.2	1434.2	1404.6	1370.4	1324.9	1299.8	1302.1	1297.6
40°	8575.4	7387.1	3869.9	1511.5	1372.7	1340.8	1288.5	1236.1	1220.2	1220.2	1215.7
42.5°	8755.2	7341.6	3341.8	1413.6	1313.5	1277.1	1211.0	1163.3	1154.2	1151.9	1156.5
45°	9169.5	7453.1	2868.3	1350.0	1263.4	1208.8	1142.8	1099.5	1090.4	1090.4	1088.2
47.5°	9977.7	7815.1	2529.1	1308.9	1227.0	1156.5	1088.2	1044.9	1029.0	1024.4	1024.4
50°	11234.3	8600.4	2276.4	1272.5	1181.4	1108.6	1038.0	988.0	962.9	960.7	958.4
52.5°	12980.3	9825.2	2178.5	1245.2	1131.4	1058.6	981.1	933.3	901.5	894.7	890.1
55°	15022.3	11534.8	2312.8	1224.7	1079.0	1001.6	922.0	871.9	842.3	828.6	826.4
57.5°	17387.5	13588.1	2822.8	1197.4	1031.2	940.2	862.8	812.7	780.8	764.9	760.3
60°	19511.5	15698.4	3712.9	1181.4	990.3	874.1	794.5	749.0	719.4	703.4	701.1
62.5°	21844.8	17710.8	4776.0	1224.7	972.0	810.4	730.7	689.8	664.7	648.7	648.7
65°	24337.5	19725.5	5479.5	1370.4	999.4	760.3	662.5	628.3	605.5	594.2	591.9
67.5°	26017.6	20422.1	4514.2	1520.7	1067.6	705.7	596.4	569.1	555.5	544.0	544.0
69°	25835.4	19541.1	3330.4	1559.4	1088.2	678.4	560.0	539.5	521.3	516.8	512.2
70°	25259.5	18537.2	2790.9	1534.3	1072.2	653.4	537.2	512.2	496.3	491.7	489.5
72.5°	22498.2	16076.3	2078.4	1334.0	912.8	566.8	475.8	453.0	439.3	432.5	432.5
75°	18692.0	13139.7	1623.1	1060.8	714.8	478.0	407.5	389.3	377.9	373.3	371.0
77.5°	10476.3	7337.0	1165.5	830.9	541.8	387.0	341.4	325.6	314.1	309.6	309.6
80°	2918.4	2096.6	685.2	548.6	368.8	293.7	270.9	259.5	243.6	232.2	239.0
82.5°	1099.5	908.3	391.6	330.1	234.5	195.8	189.0	179.8	173.0	157.1	157.1
85°	535.0	441.6	250.4	175.3	129.8	102.4	97.9	93.4	88.8	77.4	79.6
87.5°	184.4	195.8	109.2	63.7	38.7	25.1	20.5	11.4	11.4	11.4	11.4
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)