

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: P531482

Luminaire Tested: **GALN-SA6D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531482  
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-SA6D-735-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 36220 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

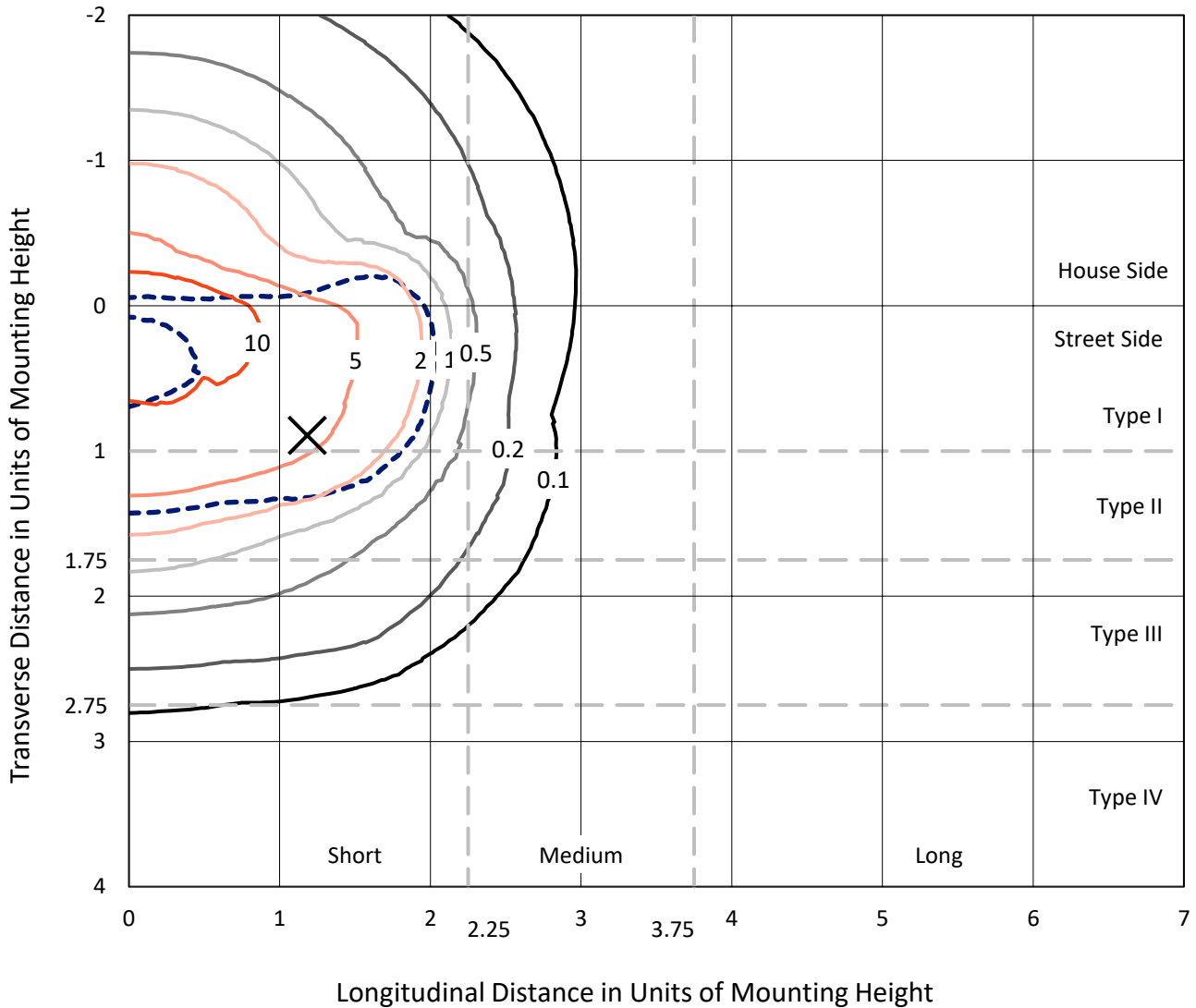
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531482  
 CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

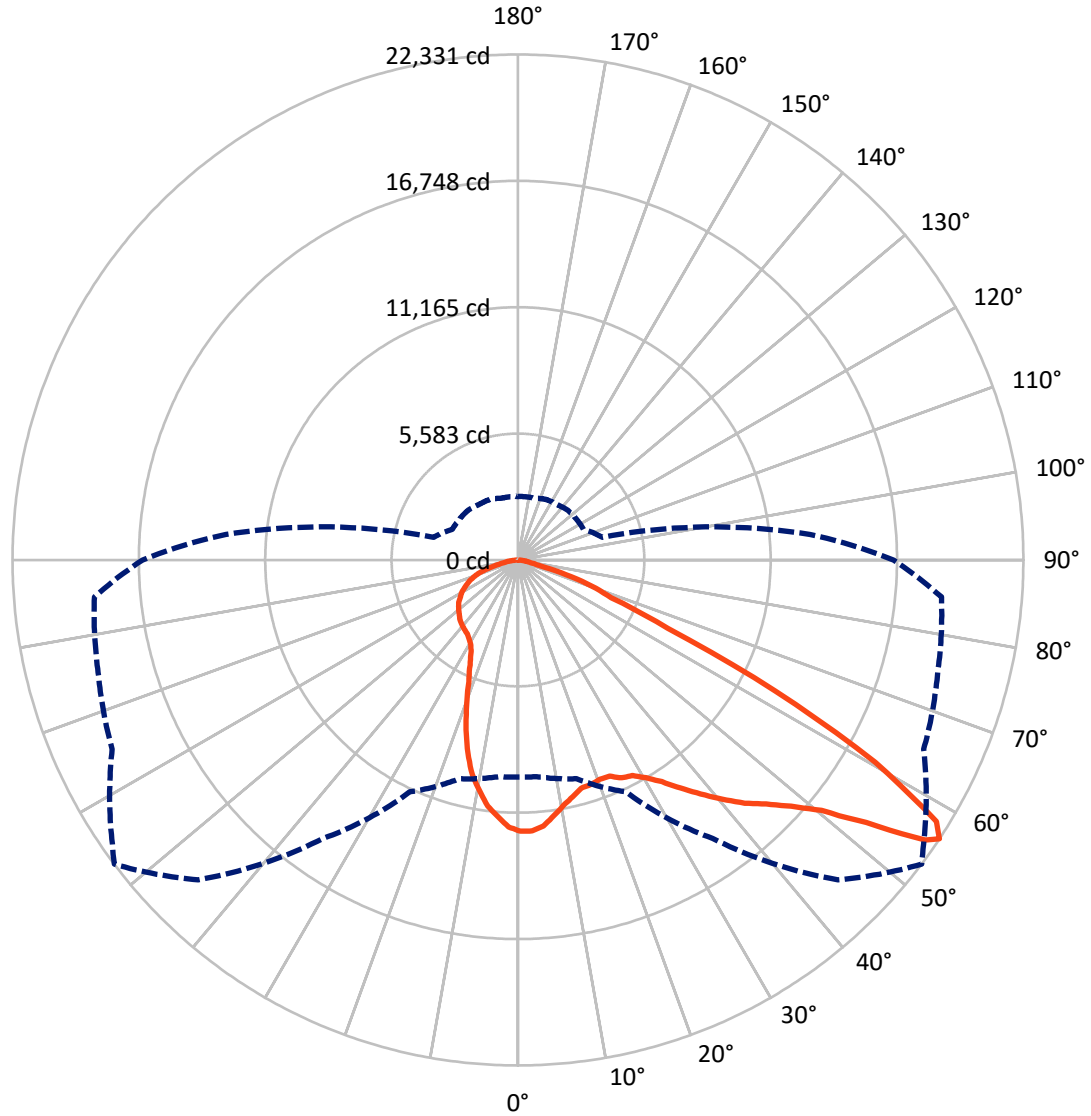
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P531482  
CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P531482  
 CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10569.8	0.0	10569.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	25650.2	0.0	25650.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	36220.0	0.0	36220.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.8	2.9
10°-20°	2649.5	7.3
20°-30°	3906.9	10.8
30°-40°	5582.3	15.4
40°-50°	7683.2	21.2
50°-60°	9079.5	25.1
60°-70°	4838.8	13.4
70°-80°	1227.6	3.4
80°-90°	191.4	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°	36220.0	100.0
0°-180°	36220.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P531482

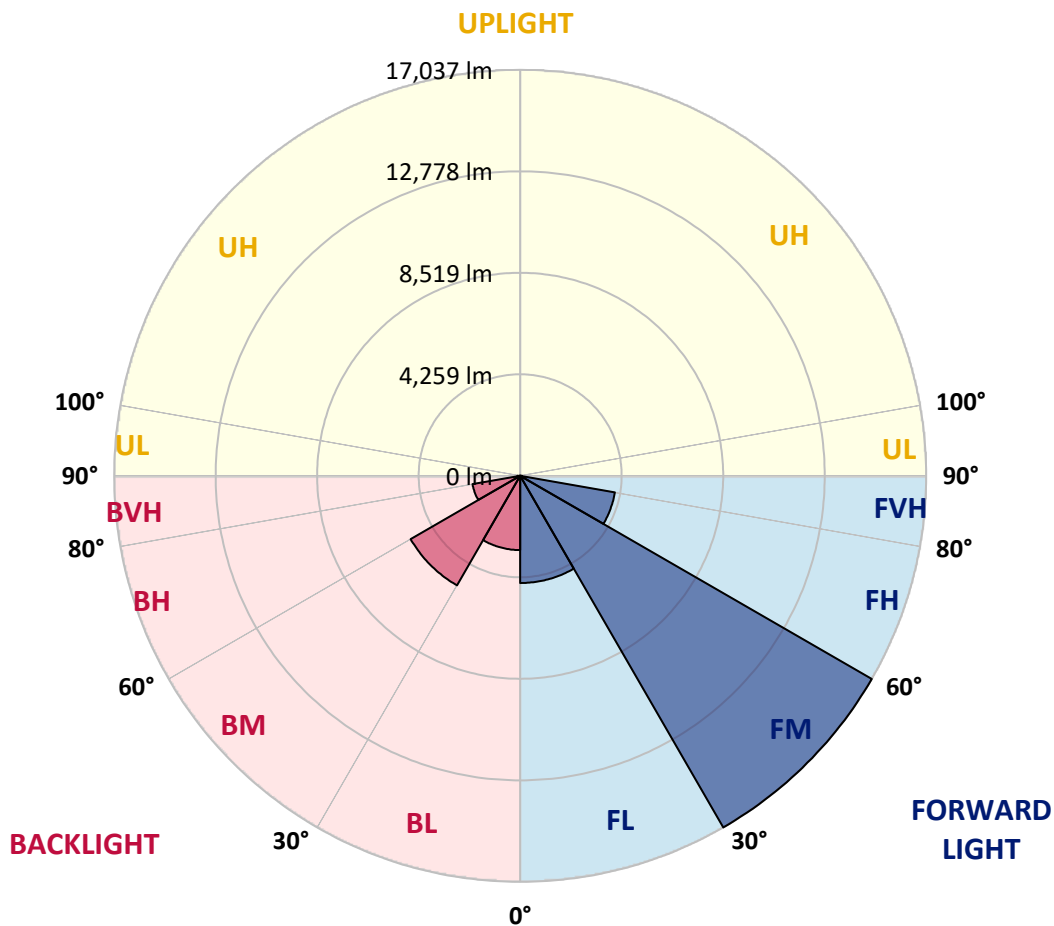
CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4499.8	12.4			
FM (30°-60°)	17037.2	47.0			
FH (60°-80°)	4036.3	11.1			G2/5000
FVH (80°-90°)	76.9	0.2			G1/100
BL (0°-30°)	3117.5	8.6	B4/5000		
BM (30°-60°)	5307.8	14.7	B4/8500		
BH (60°-80°)	2030.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	114.5	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





REPORT NUMBER: P531482

CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0
2.5°	11834.3	11732.1	11792.5	11769.3	11959.8	12015.5	11987.6	12010.9	12117.7	12066.6	11959.8
5°	11058.4	11202.4	11230.3	11300.0	11411.5	11629.9	11801.8	11848.3	11899.4	12136.3	12113.1
7.5°	10352.1	10449.7	10398.6	10603.0	10844.6	11197.8	11406.9	11444.0	11913.3	12043.4	12141.0
10°	9906.1	9808.5	10040.8	10096.6	10370.7	10774.9	11025.9	11179.2	11606.6	12122.4	12182.8
12.5°	9492.5	9460.0	9599.4	9757.4	10064.1	10482.2	10737.8	10798.2	11458.0	12001.6	12285.0
15°	9185.9	9148.7	9288.1	9404.3	9762.0	10133.7	10459.0	10630.9	11295.3	11931.9	12196.7
17.5°	8944.3	8939.6	9018.6	9227.7	9594.8	9906.1	10431.1	10440.4	11211.7	12038.8	12271.1
20°	8930.3	8925.7	8939.6	9171.9	9506.5	9887.5	10342.8	10426.5	11211.7	11964.4	12275.7
22.5°	9046.5	8972.2	9055.8	9204.5	9446.1	9920.0	10375.4	10561.2	11481.2	12331.5	12484.8
25°	9232.3	9250.9	9297.4	9348.5	9487.9	9994.4	10663.4	10816.8	11797.1	12647.4	12772.9
27.5°	9571.5	9562.2	9580.8	9608.7	9729.5	10064.1	10779.6	11174.5	12456.9	13209.6	13084.2
30°	10068.7	10036.2	10110.5	10208.1	10096.6	10287.1	11165.2	11462.6	13070.3	13776.5	13432.7
32.5°	10519.4	10640.2	10779.6	10821.4	10686.7	10723.8	11676.3	11978.4	13581.4	14473.5	13860.1
35°	11081.6	11179.2	11365.0	11495.1	11471.9	11360.4	12373.3	12772.9	14320.1	14984.6	14310.8
37.5°	11629.9	11746.0	12052.7	12438.3	12224.6	12173.5	13116.7	13446.6	14547.8	15258.7	14640.7
40°	12512.7	12508.0	13037.7	13237.5	13428.0	13339.7	13888.0	13999.5	14668.6	15198.3	14650.0
42.5°	13548.8	13483.8	14022.8	14334.1	14580.3	14589.6	14691.8	14654.7	14724.4	14891.6	14552.4
45°	14533.9	14673.3	15216.9	15774.4	16020.7	16048.6	15370.2	15300.5	14821.9	14803.4	14366.6
47.5°	15737.3	15769.8	16215.9	16950.0	17521.5	17326.3	16248.4	16095.0	15249.4	15393.4	14677.9
50°	15807.0	16048.6	16448.2	17312.4	19068.7	19017.6	17386.7	17098.7	15937.1	16229.8	15546.8
52.5°	14348.0	14292.3	14766.2	16178.7	18952.6	20699.6	19273.2	18585.5	17414.6	17191.6	16954.6
55°	10932.9	11063.0	11481.2	12907.6	16457.5	20722.8	21842.6	21280.4	18994.4	18613.4	18339.2
56°	9590.1	9608.7	10003.6	11304.6	15017.1	19984.1	22330.5	21875.1	19779.6	19198.8	18780.7
57.5°	7949.9	7843.1	8047.5	8758.4	12675.3	18422.9	21796.1	22242.2	20699.6	19830.7	19249.9
60°	6258.7	6235.4	6151.8	6281.9	8010.4	13878.7	18144.1	19147.7	20606.7	19236.0	18436.8
62.5°	5111.0	4994.9	5162.1	5348.0	5566.4	8609.7	12749.7	13339.7	16359.9	15356.3	13850.8
65°	3963.4	3907.6	4116.7	4720.7	4850.8	5468.8	7262.3	7717.6	9659.8	9487.9	8354.2
67.5°	2727.4	2736.7	2917.9	3837.9	4497.7	4441.9	4446.6	4683.5	5041.3	3745.0	3261.8
70°	1728.5	1723.8	1821.4	2471.9	3619.5	3656.7	3470.8	3401.1	3224.6	1951.5	2067.6
72.5°	1110.5	1078.0	1129.1	1366.0	1872.5	2165.2	2230.3	2272.1	1867.8	1533.3	1663.4
75°	627.3	594.7	576.2	636.6	738.8	854.9	938.6	966.4	1082.6	1161.6	1231.3
77.5°	190.5	171.9	209.1	278.8	367.1	492.5	599.4	618.0	729.5	822.4	892.1
80°	83.6	92.9	130.1	185.9	260.2	348.5	422.8	450.7	525.0	594.7	613.3
82.5°	51.1	55.8	88.3	125.5	181.2	246.3	302.0	311.3	385.6	441.4	455.3
85°	18.6	23.2	46.5	74.3	116.2	158.0	158.0	171.9	158.0	158.0	171.9
87.5°	0.0	0.0	4.6	9.3	9.3	13.9	18.6	18.6	23.2	27.9	32.5
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: P531482

CATALOG NUMBER: GALN-SA6D-735-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0	11983.0
2.5°	12015.5	11992.3	11955.1	11820.4	11806.4	11764.6	11532.3	11495.1	11532.3	11420.8	11430.1
5°	11992.3	12062.0	11783.2	11648.5	11397.6	11216.4	11007.3	10900.4	10709.9	10589.1	10723.8
7.5°	12094.5	12066.6	11718.2	11425.4	11049.1	10589.1	10222.0	10012.9	9678.4	9585.5	9655.2
10°	12057.3	11908.7	11499.8	11114.1	10403.2	9999.0	9404.3	8828.1	8512.2	8349.5	8326.3
12.5°	12006.2	11964.4	11281.4	10617.0	9868.9	9018.6	8182.3	7638.6	7122.9	6899.9	6932.4
15°	12066.6	11713.5	10872.5	10031.5	9037.2	7922.1	7020.7	6319.1	5961.3	5817.3	5817.3
17.5°	12038.8	11592.7	10677.4	9376.4	8117.2	6797.6	5808.0	5385.1	5236.5	5236.5	5278.3
20°	12052.7	11671.7	10282.4	8721.2	7030.0	5724.3	5004.1	4850.8	4915.9	4939.1	4962.3
22.5°	12131.7	11411.5	9896.8	8001.1	6021.7	4897.3	4544.2	4548.8	4665.0	4790.4	4767.2
25°	12229.3	11309.3	9427.5	7285.5	5250.4	4493.0	4381.5	4367.6	4455.9	4520.9	4530.2
27.5°	12145.6	11132.7	8948.9	6393.4	4618.5	4223.6	4200.3	4209.6	4237.5	4367.6	4325.8
30°	12419.8	11183.8	8349.5	5645.3	4270.0	4135.3	4107.4	4093.5	4135.3	4172.4	4139.9
32.5°	12758.9	11002.6	7903.5	4925.2	4098.1	4070.2	4014.5	3995.9	4019.1	3981.9	4000.5
35°	12907.6	10970.1	7322.7	4409.4	3963.4	3940.1	3907.6	3903.0	3907.6	3875.1	3847.2
37.5°	12991.3	11123.4	6658.3	4172.4	3879.7	3903.0	3828.6	3819.3	3735.7	3754.3	3768.2
40°	13135.3	10886.5	6119.3	3944.8	3828.6	3782.1	3717.1	3703.2	3647.4	3614.9	3647.4
42.5°	12926.2	10816.8	5589.6	3847.2	3754.3	3703.2	3656.7	3577.7	3559.1	3531.2	3512.7
45°	12758.9	10417.2	5115.7	3726.4	3666.0	3638.1	3549.8	3466.2	3396.5	3424.4	3382.6
47.5°	12884.4	10277.8	4646.4	3624.2	3545.2	3512.7	3424.4	3359.3	3289.6	3257.1	3247.8
50°	13386.2	10538.0	4251.4	3549.8	3443.0	3424.4	3308.2	3233.9	3168.8	3145.6	3154.9
52.5°	14585.0	11248.9	3981.9	3396.5	3345.4	3261.8	3196.7	3103.8	3062.0	2987.6	3034.1
55°	16104.3	12405.8	3912.2	3252.5	3224.6	3150.2	3062.0	2992.3	2913.3	2852.9	2838.9
56°	16592.2	12958.7	3856.5	3196.7	3150.2	3108.4	2992.3	2950.4	2825.0	2811.1	2801.8
57.5°	16987.2	13446.6	3865.8	3089.8	3043.4	3006.2	2936.5	2834.3	2750.7	2699.5	2722.8
60°	16095.0	12587.0	3689.2	2927.2	2917.9	2848.2	2750.7	2704.2	2602.0	2541.6	2527.6
62.5°	11964.4	8544.7	2992.3	2718.1	2713.5	2639.1	2527.6	2476.5	2457.9	2374.3	2374.3
65°	6890.6	5357.3	2588.0	2546.2	2509.0	2434.7	2323.2	2281.4	2234.9	2207.0	2183.8
67.5°	2941.2	2778.5	2351.1	2346.4	2304.6	2211.7	2100.2	2035.1	1974.7	1919.0	1946.8
70°	2132.7	2165.2	2123.4	2100.2	2049.1	1932.9	1835.3	1756.3	1663.4	1626.2	1654.1
72.5°	1691.3	1761.0	1821.4	1826.0	1765.6	1630.9	1524.0	1417.1	1314.9	1263.8	1287.0
75°	1282.4	1328.9	1389.3	1403.2	1314.9	1222.0	1119.8	1008.3	929.3	868.9	878.2
77.5°	924.6	915.3	971.1	961.8	920.0	854.9	762.0	659.8	571.5	515.7	520.4
80°	631.9	645.8	678.4	673.7	622.6	580.8	511.1	427.5	362.4	316.0	306.7
82.5°	441.4	464.6	492.5	469.3	427.5	385.6	334.5	274.1	223.0	185.9	176.6
85°	158.0	181.2	209.1	223.0	237.0	227.7	190.5	153.3	111.5	92.9	88.3
87.5°	32.5	37.2	41.8	41.8	41.8	37.2	32.5	32.5	27.9	13.9	13.9
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)