

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: P648335

Luminaire Tested: **GALN-SA3B-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9942.5 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

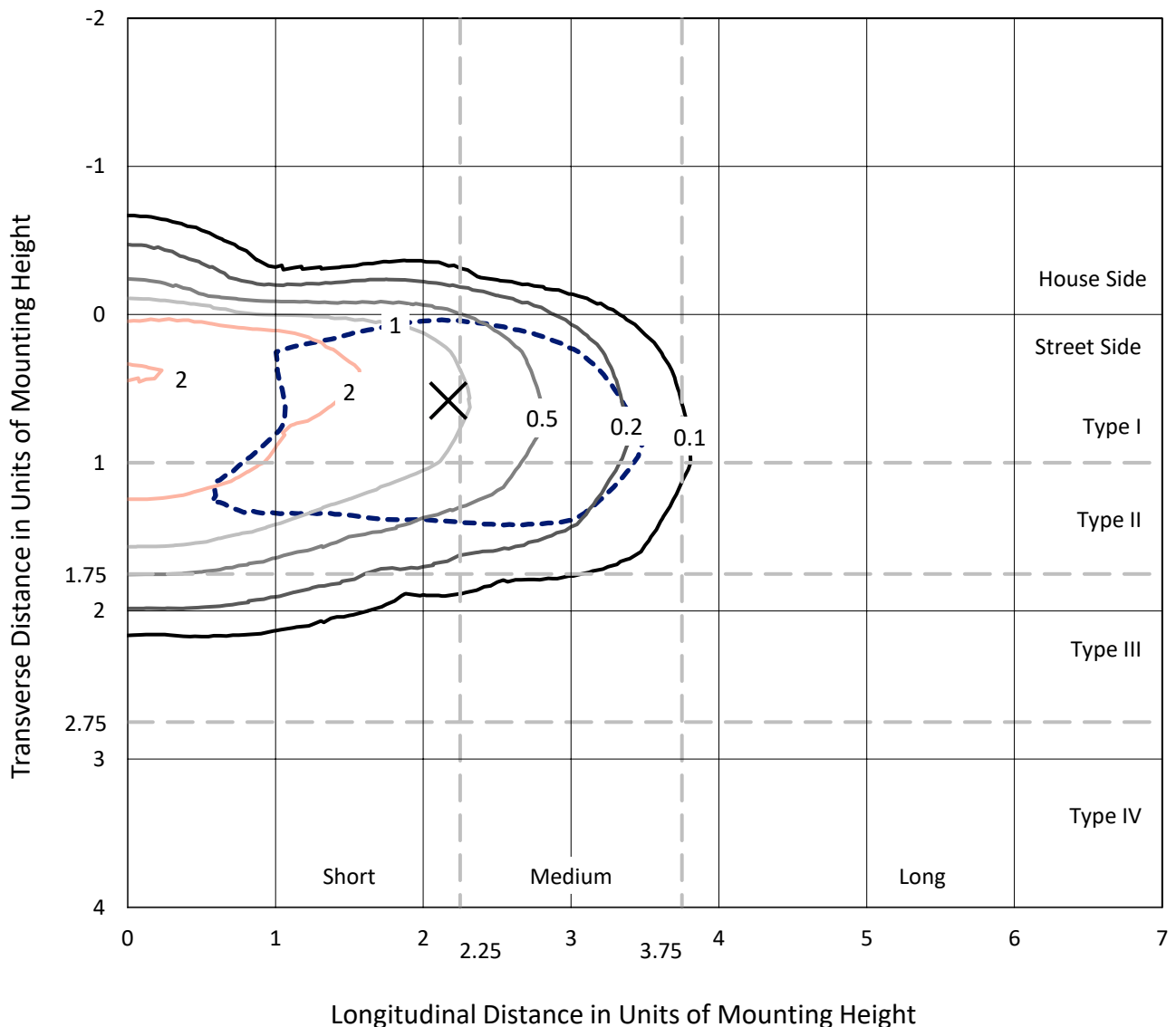
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

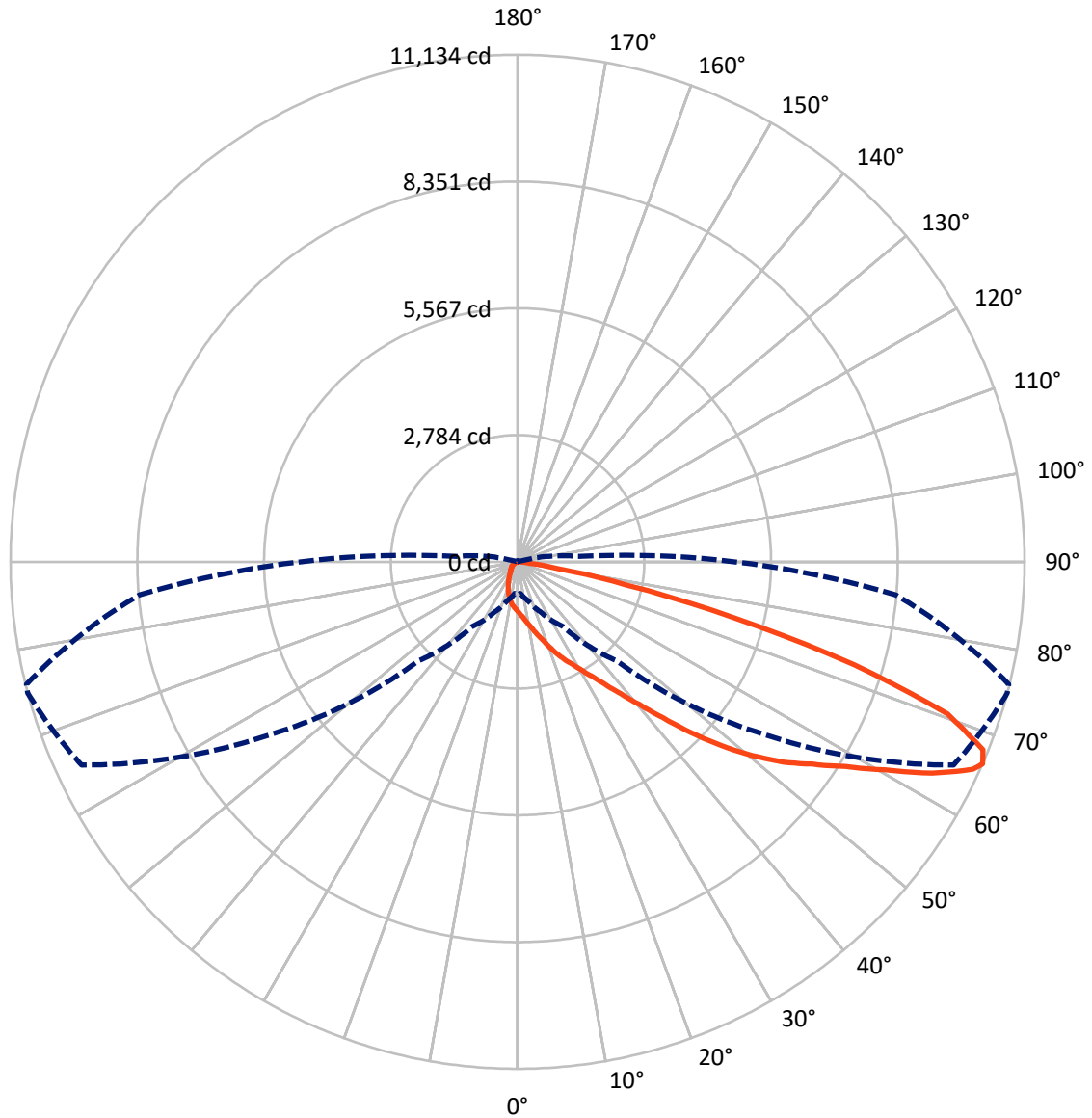
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	613.8	0.0	613.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9328.7	0.0	9328.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9942.5	0.0	9942.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	1.1
10°-20°	308.7	3.1
20°-30°	533.0	5.4
30°-40°	961.4	9.7
40°-50°	1736.7	17.5
50°-60°	2707.6	27.2
60°-70°	2572.1	25.9
70°-80°	964.0	9.7
80°-90°	54.4	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°	9942.5	100.0
0°-180°	9942.5	100.0

**Coefficient of Utilization**

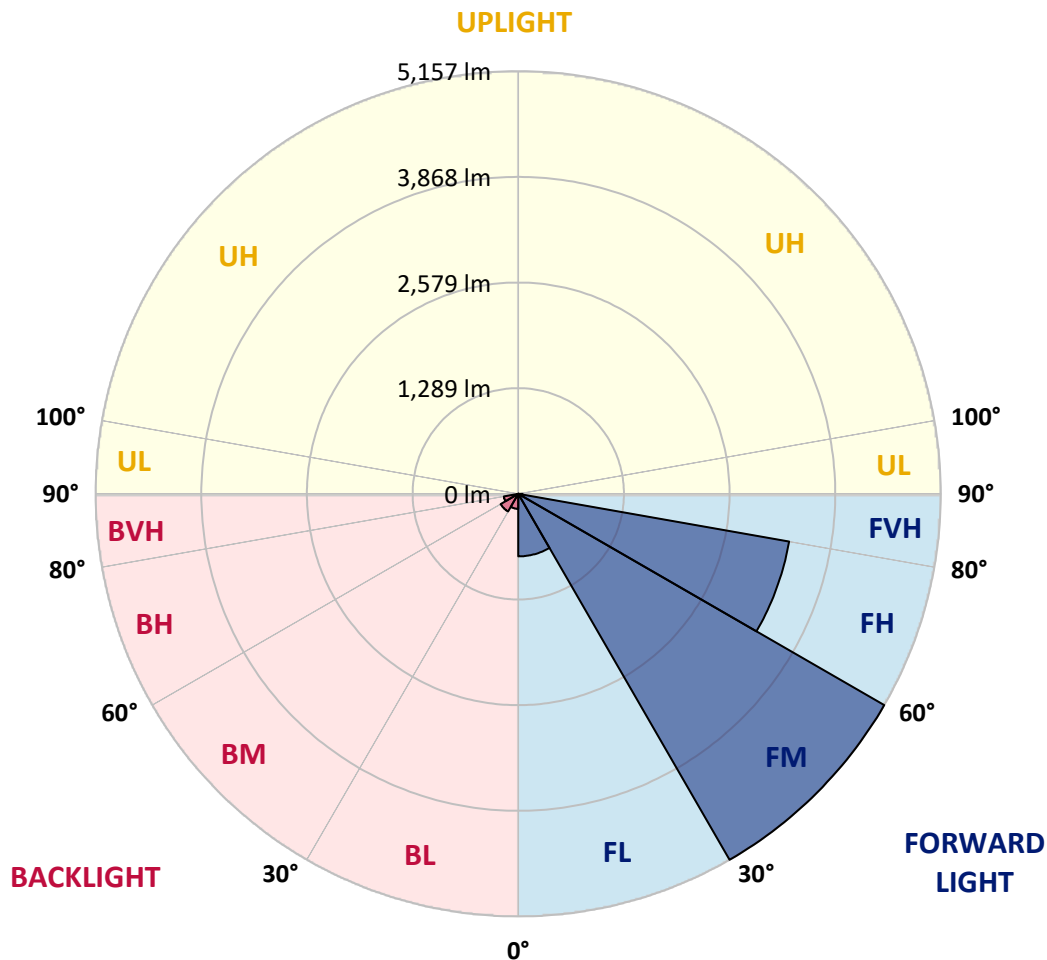


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.2	7.7			
FM (30°-60°)	5157.2	51.9			
FH (60°-80°)	3356.8	33.8			G2/5000
FVH (80°-90°)	51.6	0.5			G1/100
BL (0°-30°)	183.3	1.8	B1/500		
BM (30°-60°)	248.5	2.5	B1/1000		
BH (60°-80°)	179.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4
2.5°	1299.1	1282.9	1288.0	1280.7	1263.8	1238.8	1216.7	1185.1	1153.5	1148.3	1113.0
5°	1470.3	1465.9	1460.1	1438.8	1426.9	1388.7	1343.2	1288.7	1223.4	1211.5	1147.6
7.5°	1587.2	1585.0	1588.0	1577.0	1566.6	1532.1	1483.6	1409.3	1307.8	1301.3	1194.6
10°	1625.4	1631.3	1642.3	1660.0	1676.2	1665.1	1628.4	1535.8	1417.4	1398.3	1248.3
12.5°	1603.4	1610.0	1636.5	1683.5	1735.8	1765.9	1751.2	1683.5	1533.6	1518.2	1308.6
15°	1546.8	1554.9	1592.4	1665.1	1758.5	1843.8	1880.5	1832.1	1668.8	1643.8	1381.4
17.5°	1463.0	1474.8	1528.4	1624.7	1752.7	1899.7	2003.3	1987.2	1813.0	1789.4	1460.8
20°	1399.8	1408.6	1454.2	1564.4	1727.6	1930.6	2120.2	2165.8	1990.9	1950.4	1554.2
22.5°	1441.7	1444.6	1460.1	1526.2	1682.8	1938.6	2223.2	2351.8	2179.8	2143.8	1651.2
25°	1646.8	1617.4	1601.9	1587.2	1673.3	1931.3	2316.5	2545.9	2367.9	2329.7	1747.5
27.5°	1970.3	1957.0	1879.1	1774.7	1754.9	1940.8	2378.3	2729.7	2545.1	2504.0	1841.6
30°	2322.4	2299.6	2251.8	2098.9	1945.3	2008.5	2423.2	2908.3	2754.7	2700.3	1927.6
32.5°	2645.8	2660.6	2589.3	2431.9	2254.0	2152.5	2481.2	3103.2	2995.1	2927.5	2027.6
35°	3023.0	3052.4	2942.9	2792.2	2584.1	2412.8	2594.4	3323.0	3300.2	3214.9	2182.0
37.5°	3406.0	3423.7	3356.8	3145.1	2957.5	2743.6	2807.6	3594.2	3675.9	3603.1	2366.5
40°	3728.0	3752.3	3703.0	3514.8	3314.9	3126.7	3117.1	3889.8	4122.8	4047.9	2641.5
42.5°	3974.4	3992.7	3994.2	3861.1	3681.0	3595.7	3511.9	4266.9	4683.0	4596.3	2960.5
45°	4285.3	4311.7	4296.3	4205.9	4071.4	4055.9	4012.6	4722.7	5353.5	5244.0	3374.4
47.5°	4766.1	4783.7	4745.5	4638.9	4502.2	4526.4	4500.7	5233.7	6037.2	5943.1	3803.0
50°	5099.8	5129.3	5183.7	5226.3	5127.1	5037.4	4960.9	5710.8	6686.4	6601.8	4241.2
52.5°	5096.2	5144.7	5316.7	5531.4	5748.3	5721.1	5501.3	6237.9	7306.1	7201.7	4652.9
55°	4752.9	4847.0	5099.8	5480.7	6081.3	6380.5	6280.5	6848.1	7841.3	7770.7	5130.0
57.5°	4044.2	4101.5	4452.9	4985.2	5895.3	6690.7	7183.3	7675.1	8483.1	8450.1	5871.1
60°	2720.1	2745.8	3198.0	3856.0	5019.0	6381.3	7845.0	8675.7	9273.4	9257.3	6736.4
62.5°	1558.6	1569.6	1897.4	2452.5	3571.4	5407.9	7900.9	9910.0	10221.0	10229.9	7737.7
65°	838.8	844.7	1109.4	1439.5	2173.1	3854.5	7104.7	10586.4	10987.1	11004.0	8358.1
66°	724.1	696.2	882.9	1227.0	1729.1	3067.9	6601.1	10562.2	11134.1	11115.8	8336.1
67.5°	550.6	575.7	705.0	943.2	1281.4	2181.3	5449.8	10092.4	11022.4	10965.1	7997.2
70°	394.1	404.3	502.1	672.7	872.7	1196.8	3482.5	8382.4	10018.2	9941.0	6967.2
72.5°	254.4	265.4	355.8	486.7	630.8	653.6	1949.7	6056.3	7723.7	7712.6	5246.9
75°	181.6	191.9	235.3	348.4	474.2	404.3	938.8	4081.6	4910.2	4877.1	3245.8
77.5°	131.6	136.7	157.3	227.9	338.9	289.6	435.2	2179.8	2444.4	2559.9	1434.3
80°	75.7	80.1	109.5	139.0	229.3	197.8	208.0	874.8	902.0	858.6	448.4
82.5°	37.5	42.7	65.5	94.8	143.4	133.0	95.6	263.2	277.9	270.5	113.2
85°	8.8	11.0	36.7	62.5	69.8	59.6	46.4	77.2	95.6	93.3	43.4
87.5°	0.7	1.5	13.2	11.0	11.7	19.9	16.2	19.9	30.9	28.7	15.4
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°	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4	1087.4
2.5°	1096.9	1082.9	1042.5	1002.8	969.7	935.1	903.5	885.2	877.8	869.7	873.4
5°	1112.3	1078.5	996.9	926.3	857.2	798.4	751.4	721.2	706.5	704.3	700.6
7.5°	1132.9	1074.8	948.4	838.1	747.7	682.2	628.6	585.2	572.0	560.2	550.6
10°	1157.9	1068.2	888.1	745.5	649.2	566.8	496.3	444.7	418.3	411.0	416.1
12.5°	1184.4	1055.7	824.9	660.1	549.2	444.0	378.6	352.9	345.5	342.6	343.3
15°	1210.8	1040.3	758.7	577.9	437.5	354.4	324.2	317.6	314.7	313.2	311.7
17.5°	1235.1	1015.2	684.4	497.7	354.4	302.9	291.8	286.0	280.1	277.9	274.2
20°	1263.8	986.6	617.6	408.0	300.0	274.2	261.0	249.9	241.2	235.3	234.5
22.5°	1290.9	949.9	547.7	338.2	273.5	246.3	225.0	213.2	202.9	195.6	197.8
25°	1305.7	905.0	485.2	294.8	249.2	218.4	194.8	180.1	169.0	165.4	164.7
27.5°	1305.7	849.9	424.2	269.8	227.1	193.3	169.0	155.1	147.8	142.6	143.4
30°	1295.4	788.9	367.6	250.7	208.0	171.3	148.5	136.0	130.1	126.5	125.7
32.5°	1287.3	730.8	319.1	232.3	188.2	152.2	132.3	122.8	116.9	113.2	113.2
35°	1299.8	680.7	281.6	213.9	169.8	137.5	119.8	111.0	105.2	102.2	101.5
37.5°	1332.8	635.2	252.9	194.1	152.9	125.0	111.0	100.7	94.8	91.1	89.7
40°	1414.5	609.5	231.6	175.7	136.7	114.7	100.7	91.1	83.8	80.1	79.4
42.5°	1545.3	610.2	211.0	158.8	124.3	105.9	91.9	80.9	72.8	69.1	68.4
45°	1742.3	638.1	194.8	142.6	113.2	96.3	82.4	70.5	63.2	59.6	59.6
47.5°	1978.3	692.6	180.9	128.6	102.9	87.5	72.8	61.0	53.6	50.7	50.7
50°	2234.2	763.1	166.9	113.9	94.1	77.9	62.5	52.9	47.1	44.9	44.9
52.5°	2495.2	848.4	152.9	102.2	84.6	67.7	53.6	47.1	41.9	40.4	39.7
55°	2837.7	957.2	138.2	89.7	74.2	58.1	47.8	41.2	35.3	33.1	32.3
57.5°	3364.9	1121.1	122.1	78.7	61.0	48.5	41.2	34.5	28.0	24.3	23.5
60°	4000.8	1321.1	105.2	69.1	49.3	39.7	33.1	26.5	20.6	16.2	15.4
62.5°	4596.3	1448.3	88.9	58.1	39.0	30.1	23.5	19.9	14.7	10.3	9.6
65°	4859.5	1405.6	73.5	47.1	30.9	21.3	15.4	13.9	8.8	4.4	3.7
66°	4772.0	1342.5	67.7	42.7	28.0	18.4	13.2	11.7	6.7	2.2	2.2
67.5°	4513.9	1193.2	58.8	36.7	24.3	14.7	10.3	8.8	3.7	0.7	0.0
70°	3867.7	965.3	46.4	27.2	17.6	10.3	5.9	4.4	2.2	0.0	0.0
72.5°	2970.8	719.0	36.7	20.6	12.5	5.9	3.0	1.5	2.2	0.0	0.0
75°	1820.2	411.0	28.7	15.4	8.1	3.7	2.2	0.0	2.2	0.7	0.0
77.5°	808.0	184.6	19.1	10.3	5.9	3.0	1.5	0.0	1.5	0.7	0.0
80°	204.4	60.3	11.0	7.4	4.4	2.2	0.7	0.0	1.5	1.5	0.7
82.5°	55.9	22.1	8.1	5.9	3.7	2.2	0.7	0.0	1.5	1.5	1.5
85°	22.1	10.3	7.4	5.9	4.4	2.2	0.7	0.0	1.5	1.5	1.5
87.5°	10.3	7.4	7.4	6.7	5.2	2.2	0.7	0.0	1.5	0.7	1.5
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)