

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: P526771

Luminaire Tested: **GALN-SA1D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5318 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

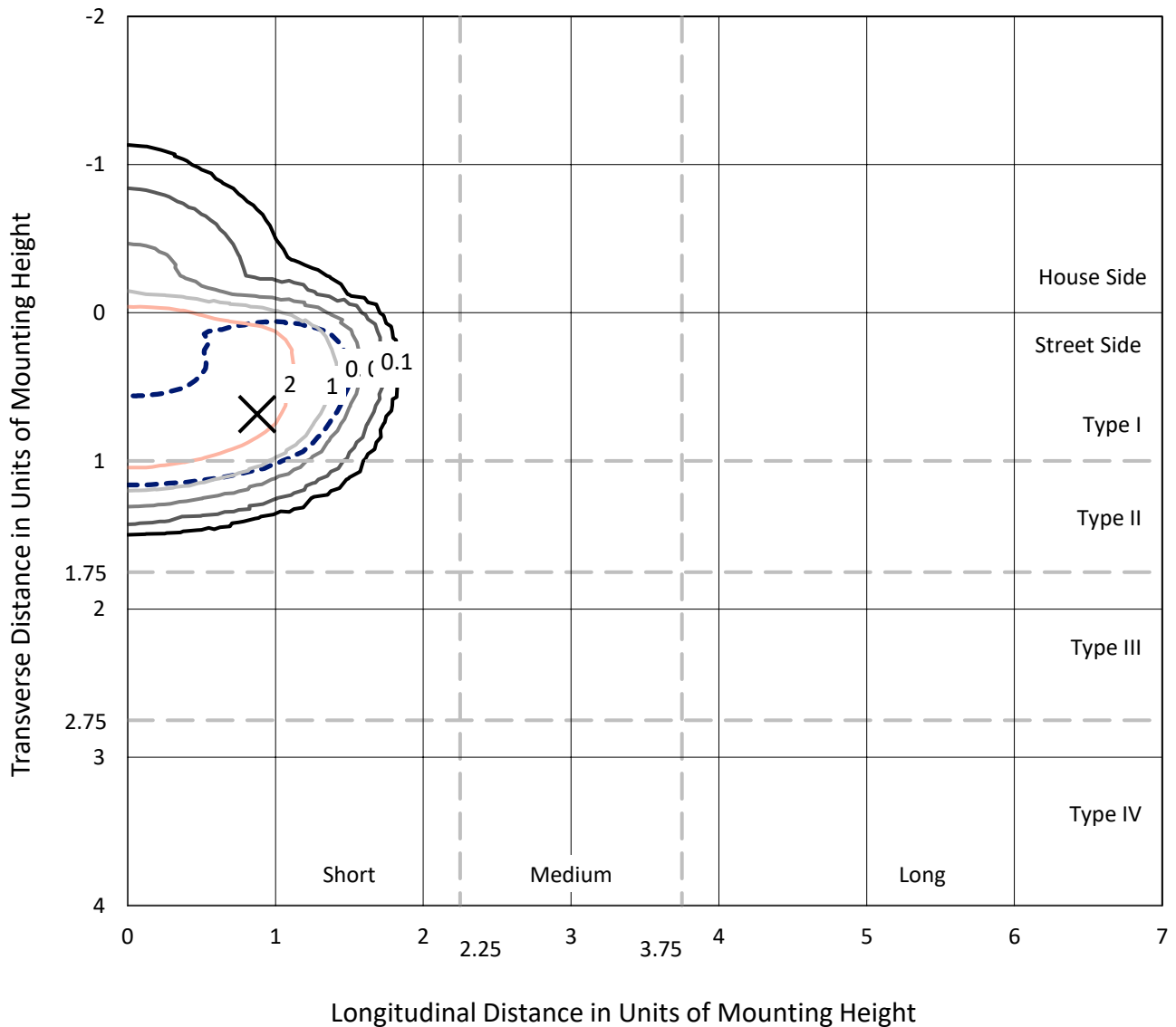
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

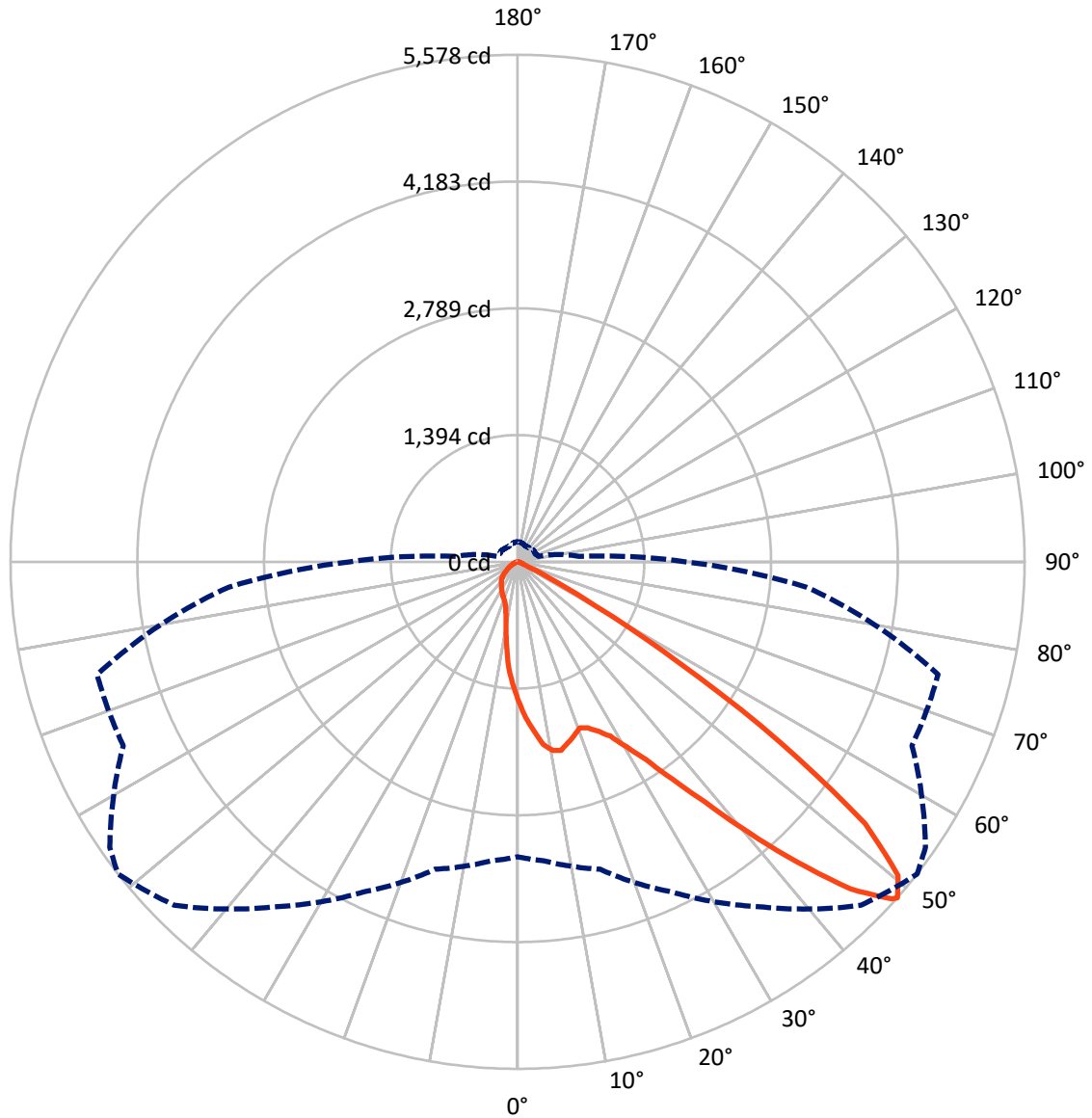
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.5	0.0	647.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4670.5	0.0	4670.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	5318.0	0.0	5318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	2.6
10°-20°	367.3	6.9
20°-30°	627.2	11.8
30°-40°	1155.0	21.7
40°-50°	1793.7	33.7
50°-60°	1079.5	20.3
60°-70°	124.9	2.3
70°-80°	24.2	0.5
80°-90°	5.6	0.1
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°	5318.0	100.0
0°-180°	5318.0	100.0

Coefficient of Utilization



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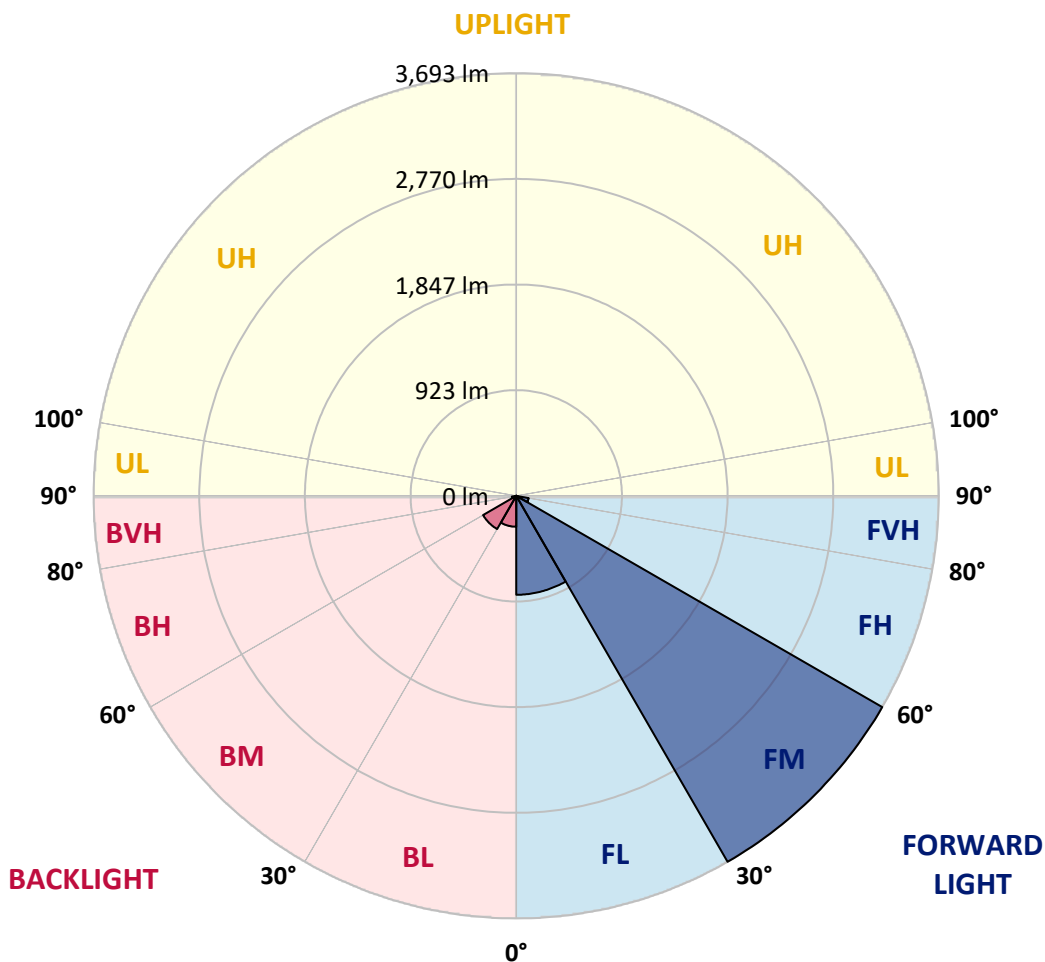
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.6	16.3			
FM (30°-60°)	3693.2	69.4			
FH (60°-80°)	109.9	2.1			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	270.5	5.1	B1/500		
BM (30°-60°)	335.0	6.3	B1/1000		
BH (60°-80°)	39.1	0.7	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1861.4	1818.7	1822.6	1794.7	1778.4	1752.0	1716.4	1709.4	1670.6	1617.9	1564.4
5°	2028.8	2018.7	2031.9	1991.6	1993.1	1949.7	1866.0	1867.6	1778.4	1692.3	1609.4
7.5°	2039.7	2016.4	2029.6	2065.2	2086.2	2078.4	2031.1	1990.0	1905.5	1779.2	1658.2
10°	1826.5	1870.7	1884.6	1943.5	2027.3	2115.6	2110.2	2112.5	2042.0	1876.9	1700.1
12.5°	1698.6	1669.1	1716.4	1752.0	1878.4	2049.7	2128.0	2145.1	2150.5	1971.4	1742.0
15°	1640.4	1640.4	1648.2	1658.2	1749.7	1907.9	2067.6	2117.2	2234.2	2095.5	1807.9
17.5°	1676.8	1675.3	1686.1	1665.2	1699.3	1821.0	2011.7	2068.3	2328.0	2217.2	1859.8
20°	1787.7	1793.1	1786.2	1725.7	1728.0	1819.5	1949.7	2038.9	2391.6	2322.6	1928.8
22.5°	1942.0	1945.1	1905.5	1839.6	1820.3	1865.2	1985.4	2053.6	2442.8	2449.0	1949.7
25°	2120.3	2107.9	2100.1	2007.1	1948.2	1986.9	2066.0	2105.6	2474.6	2557.5	2009.4
27.5°	2367.6	2342.8	2295.5	2212.5	2169.1	2114.1	2170.7	2235.8	2565.3	2709.5	2074.5
30°	2732.7	2711.0	2618.8	2511.8	2397.8	2343.5	2361.4	2397.0	2728.8	2885.4	2160.6
32.5°	3282.4	3236.6	3103.3	2899.4	2744.3	2594.7	2590.1	2628.1	2875.4	3128.9	2262.9
35°	3887.8	3873.9	3677.7	3467.6	3167.6	2936.6	2940.5	2960.6	3156.0	3448.3	2397.0
37.5°	4290.2	4366.9	4242.1	4016.5	3764.6	3434.3	3350.6	3357.6	3541.3	3826.6	2638.9
40°	4601.0	4535.9	4550.7	4497.9	4325.8	4101.0	3915.7	3879.3	3987.1	4245.2	2879.2
42.5°	4465.4	4468.5	4559.2	4684.0	4726.6	4710.4	4521.2	4452.2	4368.5	4587.9	3107.9
45°	4082.4	4162.3	4280.1	4610.4	4900.3	5172.4	5135.2	5020.5	4632.1	4859.2	3239.7
47.5°	3471.5	3468.4	3661.5	4090.9	4735.2	5372.4	5541.4	5460.8	4818.9	4829.0	3212.6
48°	3245.9	3301.7	3501.0	4006.4	4630.5	5343.0	5577.9	5476.3	4787.1	4788.7	3189.3
50°	2399.4	2389.3	2637.4	3257.6	4135.9	5020.5	5424.4	5503.4	4786.3	4584.8	3026.5
52.5°	1267.5	1310.9	1491.6	2048.2	2924.2	4108.8	4784.8	4908.0	4617.3	4251.4	2792.4
55°	538.8	486.9	625.6	924.9	1645.1	2745.1	3510.3	3784.7	3904.1	3762.2	2442.8
57.5°	192.3	210.1	241.9	348.1	691.5	1502.4	2093.1	2306.3	2704.8	2760.6	1664.4
60°	123.3	125.6	135.7	159.7	259.7	579.1	993.1	1162.9	1343.5	1386.9	776.8
62.5°	95.4	96.1	100.8	104.7	123.3	224.8	372.9	441.9	458.9	394.6	203.9
65°	79.8	80.6	82.2	82.2	87.6	105.4	130.2	143.4	139.5	138.0	115.5
67.5°	61.2	62.8	65.9	65.9	69.0	64.3	72.1	76.7	86.8	105.4	98.5
70°	48.1	48.8	51.2	52.7	52.7	46.5	51.9	56.6	63.6	78.3	77.5
72.5°	37.2	38.8	40.3	40.3	38.0	31.8	37.2	41.1	45.7	54.3	52.7
75°	28.7	28.7	29.5	24.0	18.6	16.3	22.5	27.1	34.1	35.7	29.5
77.5°	7.8	8.5	7.8	7.0	7.8	11.6	14.7	17.1	21.7	21.7	19.4
80°	0.0	0.8	2.3	4.7	7.8	10.9	13.2	14.7	17.1	18.6	17.8
82.5°	0.0	0.8	2.3	4.7	7.0	8.5	11.6	12.4	14.0	16.3	16.3
85°	0.0	0.8	1.6	3.1	4.7	5.4	5.4	4.7	4.7	3.9	3.1
87.5°	0.0	0.0	0.8	1.6	1.6	2.3	2.3	2.3	2.3	2.3	2.3
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°	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1543.5	1519.5	1483.0	1425.7	1370.6	1335.0	1300.9	1262.9	1241.9	1240.4	1228.8
5°	1562.1	1507.8	1421.0	1322.6	1217.1	1126.4	1034.9	975.3	921.8	892.3	886.9
7.5°	1572.2	1501.6	1361.3	1196.2	1016.3	868.3	765.9	690.7	661.3	639.6	638.8
10°	1593.1	1490.8	1272.2	1028.7	806.2	656.6	586.1	552.0	535.7	529.5	520.2
12.5°	1608.6	1470.6	1180.7	856.6	637.2	544.2	513.2	505.5	506.2	509.3	505.5
15°	1630.3	1452.8	1057.4	703.1	534.9	490.0	490.0	491.5	502.4	503.9	503.1
17.5°	1628.8	1417.9	930.3	579.1	472.9	466.7	469.0	483.7	490.7	493.1	487.6
20°	1647.4	1385.4	799.3	494.6	438.0	447.3	462.8	466.7	475.2	476.8	470.6
22.5°	1642.0	1304.0	677.6	427.9	411.7	429.5	445.0	449.6	447.3	442.7	441.9
25°	1631.9	1234.2	565.9	383.7	392.3	411.7	426.4	417.9	413.2	414.0	414.8
27.5°	1614.0	1145.8	473.7	352.7	365.9	394.6	393.8	390.7	395.4	391.5	395.4
30°	1610.9	1057.4	397.7	324.8	346.5	367.5	369.0	374.4	379.9	372.9	379.9
32.5°	1615.6	960.5	343.4	307.8	334.9	335.7	352.7	358.2	354.3	338.8	340.3
35°	1651.3	886.1	303.9	298.5	316.3	317.1	333.4	326.4	309.3	300.0	305.4
37.5°	1726.5	824.1	285.3	289.9	291.5	301.6	302.3	288.4	289.9	289.2	292.3
40°	1822.6	776.8	272.1	282.2	280.6	287.6	259.7	267.5	274.4	276.8	278.3
42.5°	1888.5	742.7	263.6	269.8	266.7	254.3	238.8	246.5	252.0	260.5	262.0
45°	1917.9	715.5	253.5	248.1	248.1	225.6	219.4	220.9	233.3	242.7	241.1
47.5°	1869.9	689.2	235.7	219.4	224.8	206.2	199.2	199.2	212.4	224.0	221.7
48°	1851.3	678.3	236.4	213.2	217.1	203.1	196.1	194.6	209.3	220.2	220.2
50°	1759.0	638.0	216.3	196.1	188.4	186.8	182.2	183.7	193.0	203.1	203.1
52.5°	1579.2	551.2	183.0	168.2	154.3	163.6	165.9	162.8	167.5	176.8	176.0
55°	1317.9	423.3	146.5	139.5	128.7	138.8	143.4	139.5	134.9	141.9	141.9
57.5°	844.2	227.9	117.1	118.6	107.8	117.8	121.7	112.4	103.9	109.3	108.5
60°	380.6	136.4	96.1	93.8	86.8	98.5	104.7	93.8	82.2	86.1	89.9
62.5°	142.6	96.9	72.9	71.3	69.8	80.6	83.7	75.2	63.6	65.9	66.7
65°	104.7	85.3	58.1	52.7	55.8	63.6	62.0	53.5	45.7	45.7	47.3
67.5°	89.2	74.4	47.3	41.1	41.1	41.9	38.8	34.1	31.8	33.3	34.9
70°	69.8	58.9	37.2	31.8	28.7	25.6	22.5	21.7	19.4	21.7	20.9
72.5°	45.0	39.5	28.7	24.0	21.7	17.8	14.7	14.0	11.6	10.9	10.9
75°	24.0	24.0	22.5	19.4	17.1	14.0	11.6	9.3	6.2	4.7	4.7
77.5°	17.1	18.6	20.2	18.6	15.5	11.6	9.3	6.2	3.1	1.6	1.6
80°	16.3	18.6	20.2	17.8	15.5	11.6	8.5	4.7	2.3	0.8	0.8
82.5°	14.7	17.1	18.6	16.3	14.0	10.1	7.8	4.7	2.3	0.8	0.8
85°	3.1	3.9	4.7	4.7	5.4	7.0	5.4	3.9	1.6	0.8	0.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.6	0.8	0.8	0.8
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)