

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: P526697

Luminaire Tested: **GALN-SA1C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3300 lumens
Efficiency: N/A
Efficacy: 57.9 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

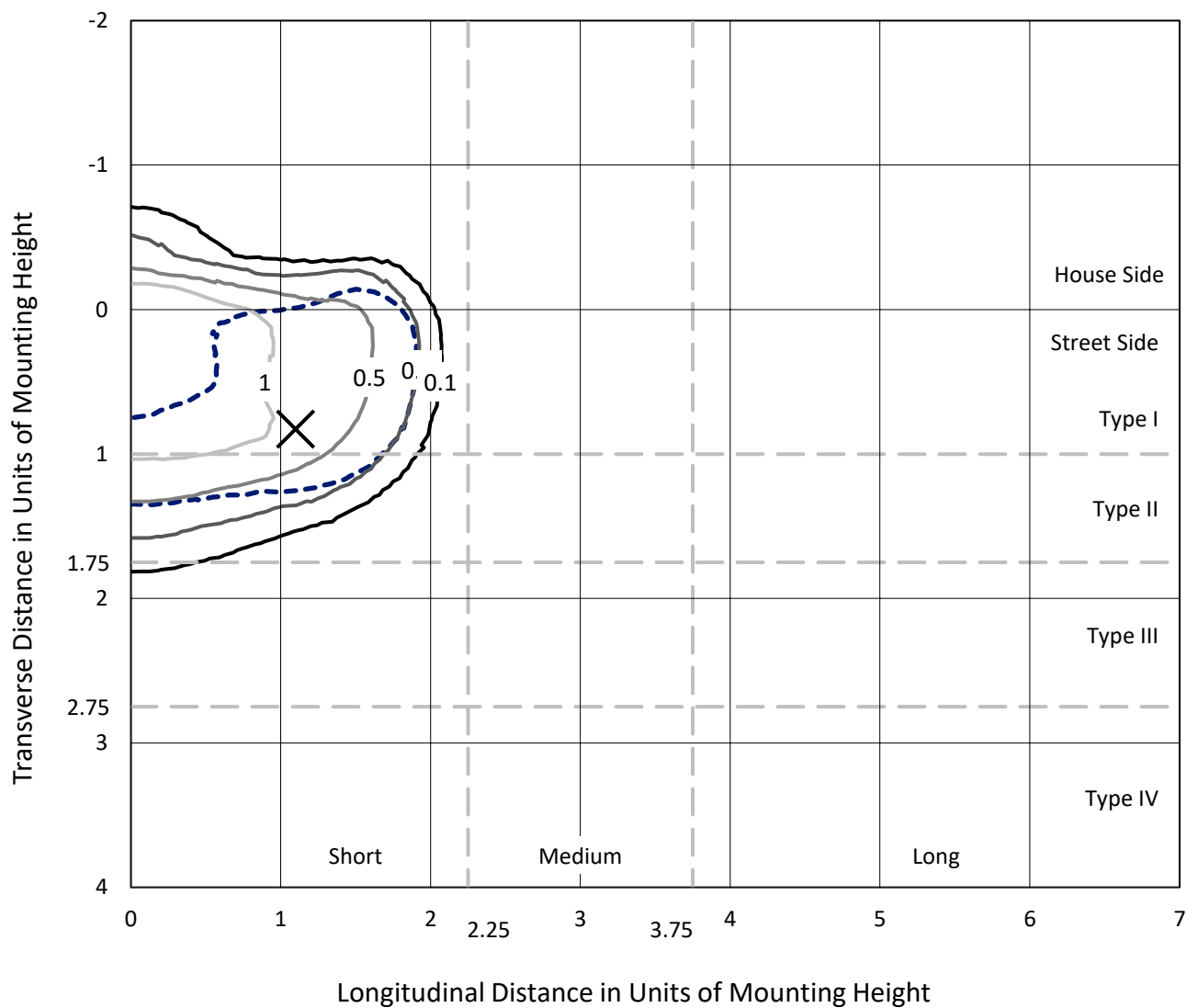
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

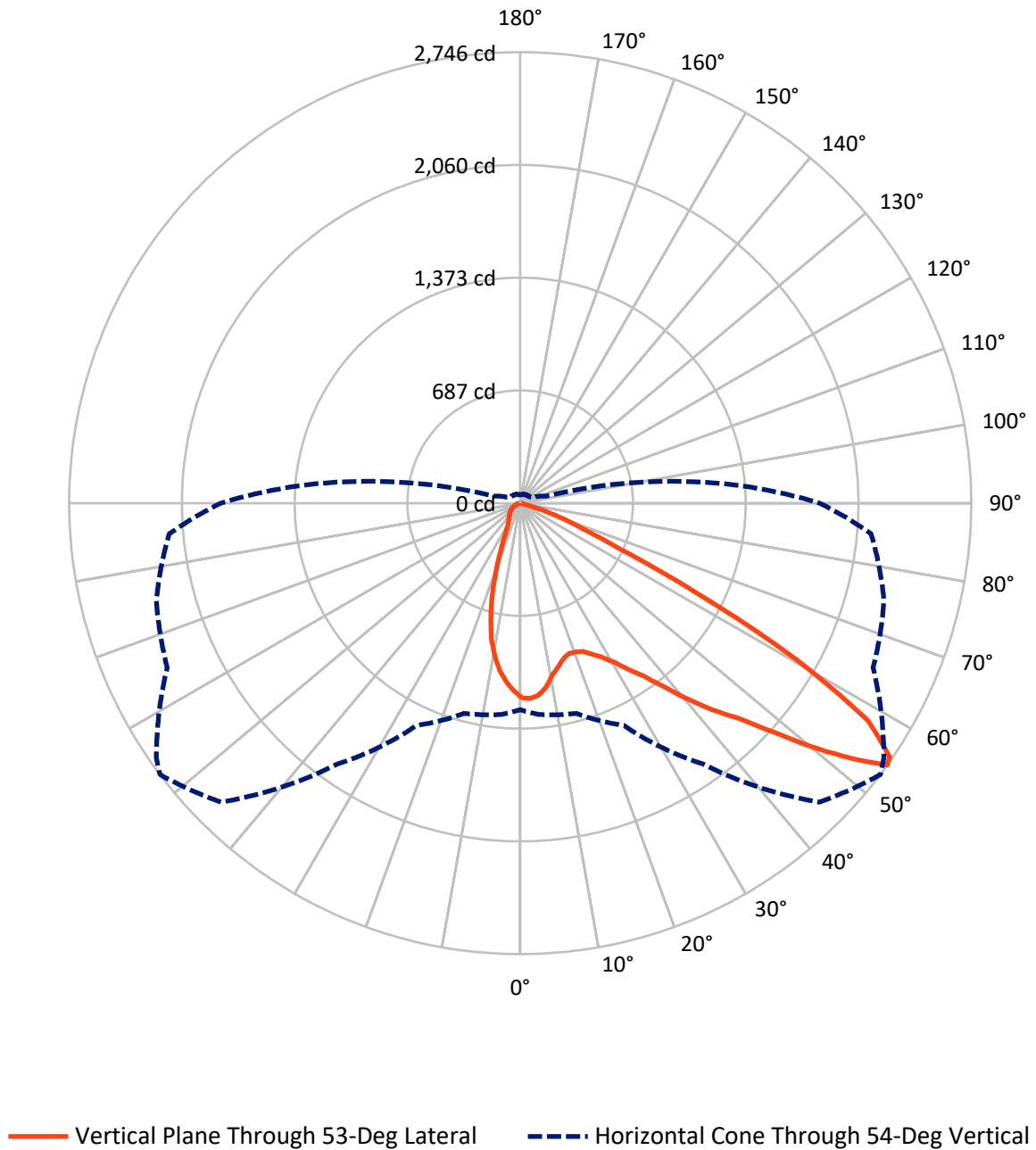
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.0	0.0	546.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2754.0	0.0	2754.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	3300.0	0.0	3300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.1
10°-20°	233.2	7.1
20°-30°	331.4	10.0
30°-40°	511.4	15.5
40°-50°	801.8	24.3
50°-60°	931.4	28.2
60°-70°	351.9	10.7
70°-80°	33.5	1.0
80°-90°	3.8	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°	3300.0	100.0
0°-180°	3300.0	100.0

Coefficient of Utilization



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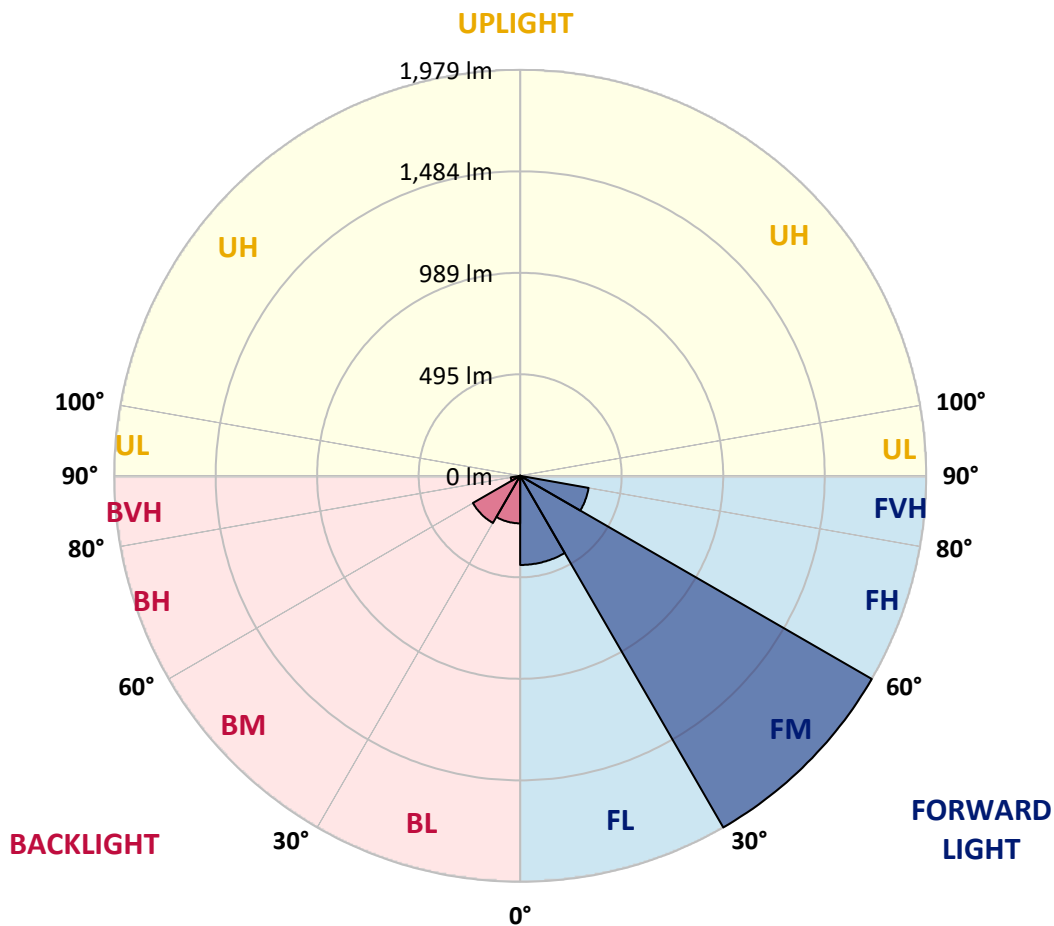
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.5	13.2			
FM	(30°-60°)	1978.9	60.0			
FH	(60°-80°)	338.6	10.3			G0/660
FVH	(80°-90°)	1.9	0.1			G0/10
BL	(0°-30°)	231.7	7.0	B1/500		
BM	(30°-60°)	265.7	8.1	B1/1000		
BH	(60°-80°)	46.8	1.4	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	53°	55°	65°	75°	85°
0°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1179.2	1168.7	1179.2	1180.4	1187.8	1194.5	1190.2	1200.1	1194.5	1188.4	1186.5
5°	1083.9	1098.0	1098.6	1120.8	1115.8	1156.4	1174.2	1169.3	1199.4	1197.6	1193.3
7.5°	998.4	992.9	1000.3	1026.1	1058.7	1105.4	1131.2	1130.6	1173.6	1204.4	1201.3
10°	919.1	918.5	933.9	954.1	981.8	1031.0	1066.7	1084.5	1151.5	1198.2	1205.0
12.5°	865.6	863.2	879.8	896.4	940.0	978.1	1023.6	1032.2	1109.1	1176.7	1187.8
15°	830.6	836.1	837.3	869.3	897.0	947.4	983.0	1000.9	1089.4	1159.5	1201.9
17.5°	824.4	831.8	832.4	858.9	888.4	930.8	962.1	986.1	1072.8	1168.1	1202.5
20°	836.7	832.4	836.1	852.7	881.6	922.2	967.7	975.7	1067.3	1172.4	1209.3
22.5°	871.8	870.5	861.3	874.8	895.1	937.5	980.6	992.9	1083.3	1194.5	1214.8
25°	910.5	917.3	908.7	906.8	920.9	962.8	1019.9	1035.9	1136.7	1234.5	1232.0
27.5°	983.0	976.3	976.3	967.7	964.0	984.3	1062.3	1088.8	1196.4	1286.1	1251.7
30°	1052.5	1059.9	1054.4	1057.4	1032.8	1031.0	1122.6	1155.2	1302.1	1364.8	1293.5
32.5°	1162.6	1152.7	1161.9	1154.0	1121.4	1088.2	1204.4	1238.2	1430.0	1455.2	1356.2
35°	1254.2	1249.9	1289.2	1288.0	1235.1	1202.5	1291.0	1341.5	1519.1	1563.4	1430.0
37.5°	1384.5	1376.5	1421.4	1442.9	1395.6	1347.0	1415.2	1473.6	1602.1	1650.1	1505.6
40°	1518.5	1538.8	1599.1	1634.7	1584.3	1519.7	1567.1	1584.9	1657.5	1706.6	1557.2
42.5°	1688.2	1717.7	1779.2	1809.9	1805.6	1735.5	1721.4	1720.8	1697.4	1690.7	1595.4
45°	1851.1	1840.0	1934.7	2001.7	2055.8	2035.6	1870.2	1851.7	1760.7	1714.6	1605.2
47.5°	1922.4	1918.7	1983.3	2102.6	2287.0	2312.2	2086.6	2015.3	1867.7	1815.5	1658.7
50°	1830.2	1849.3	1913.2	2045.4	2328.2	2520.6	2352.2	2256.3	1992.5	1938.4	1785.3
52.5°	1529.0	1541.9	1602.7	1770.6	2188.0	2643.6	2606.7	2551.4	2221.8	2132.1	2006.0
54°	1257.2	1291.7	1324.9	1493.3	1938.4	2575.3	2746.2	2703.8	2371.2	2293.1	2145.0
55°	1094.9	1115.2	1139.2	1307.0	1765.7	2459.8	2730.3	2733.9	2471.4	2343.6	2238.4
57.5°	799.8	814.0	789.4	863.8	1212.4	1997.4	2497.3	2596.8	2606.7	2419.2	2295.6
60°	611.1	617.2	589.6	601.3	753.7	1371.0	1931.7	2051.5	2351.6	2114.2	1944.6
62.5°	474.0	475.2	474.6	494.9	519.5	806.6	1208.1	1314.4	1621.2	1501.3	1320.6
65°	349.2	343.7	353.5	415.0	443.3	507.2	636.3	713.8	881.0	743.9	531.8
67.5°	226.2	228.1	237.9	308.6	379.9	389.2	391.6	385.5	386.1	212.7	133.4
70°	135.9	138.9	135.9	174.6	271.7	279.1	255.1	249.0	194.3	50.4	49.8
72.5°	80.5	76.2	68.2	75.0	113.1	135.3	121.7	121.1	76.2	29.5	29.5
75°	33.8	30.7	25.2	22.7	30.1	28.9	28.9	25.8	20.3	19.7	18.4
77.5°	6.8	6.8	4.9	5.5	7.4	8.6	10.5	10.5	12.3	12.3	11.7
80°	0.0	0.6	1.8	3.7	5.5	8.0	9.2	9.2	10.5	10.5	8.6
82.5°	0.0	0.6	1.8	3.7	4.9	7.4	9.2	9.2	10.5	11.1	9.2
85°	0.0	0.6	1.8	3.1	4.9	6.1	6.1	5.5	4.3	3.7	2.5
87.5°	0.0	0.0	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1190.8	1190.2	1175.5	1151.5	1146.0	1125.7	1123.2	1110.9	1117.7	1094.9	1092.5
5°	1181.0	1173.6	1155.8	1140.4	1095.5	1063.6	1038.4	1007.6	989.8	992.9	981.2
7.5°	1195.1	1176.1	1144.7	1091.2	1036.5	980.6	950.5	887.7	865.0	831.2	826.3
10°	1180.4	1166.2	1117.7	1029.1	953.5	873.0	802.3	732.8	680.0	657.2	652.3
12.5°	1179.2	1154.6	1073.4	975.0	865.6	750.0	647.4	560.7	508.4	478.9	472.2
15°	1160.1	1130.6	1023.6	891.4	740.2	596.3	484.5	400.8	360.9	343.7	348.6
17.5°	1161.9	1117.7	973.8	802.9	616.6	437.7	330.8	287.7	277.3	281.6	281.6
20°	1160.1	1088.8	913.6	700.9	472.2	303.7	242.8	227.5	234.2	247.8	244.7
22.5°	1150.3	1075.3	858.2	593.3	347.4	225.0	194.9	195.5	206.0	222.6	226.2
25°	1157.6	1045.1	788.2	484.5	253.3	179.5	169.1	173.4	184.4	196.7	199.2
27.5°	1152.1	1023.6	715.0	376.2	185.1	154.3	153.7	158.6	163.5	172.8	172.8
30°	1158.3	1003.9	643.1	279.7	152.5	141.4	138.9	142.6	147.5	149.4	148.8
32.5°	1181.0	989.2	560.1	209.0	134.6	129.1	129.1	129.1	128.5	130.9	131.6
35°	1230.8	991.6	486.9	161.7	123.0	118.7	116.8	114.3	113.1	114.3	115.0
37.5°	1284.9	990.4	411.3	137.7	114.3	110.7	106.4	102.7	102.1	103.3	101.4
40°	1308.9	1002.1	341.2	123.6	106.4	102.1	95.3	92.2	92.8	94.1	92.8
42.5°	1341.5	1005.8	295.7	112.5	99.0	92.2	87.9	84.2	83.6	85.5	84.8
45°	1340.8	984.9	247.8	106.4	92.2	84.8	79.3	76.2	76.2	77.5	78.1
47.5°	1380.2	981.8	212.7	100.8	87.3	79.9	73.2	70.7	70.1	70.1	68.9
50°	1471.8	1024.8	185.7	94.7	81.2	74.4	68.9	65.8	63.3	62.1	61.5
52.5°	1650.7	1158.9	164.8	87.3	74.4	68.9	63.9	61.5	58.4	55.3	54.7
54°	1824.1	1297.2	163.5	81.2	68.9	65.2	60.9	59.6	55.9	51.6	50.4
55°	1902.1	1377.7	167.8	76.2	65.2	62.7	59.0	57.8	54.1	49.2	48.6
57.5°	1966.7	1409.1	165.4	63.3	59.0	58.4	55.3	53.5	49.2	42.4	41.2
60°	1583.1	1065.4	118.7	55.9	54.1	52.9	50.4	49.2	43.6	36.3	35.7
62.5°	1000.3	612.9	75.6	49.2	47.3	45.5	42.4	41.2	36.3	28.9	27.1
65°	426.0	253.9	51.0	43.6	40.6	37.5	35.0	33.2	28.9	21.5	20.9
67.5°	110.7	90.4	42.4	38.1	33.8	29.5	27.7	24.6	19.7	14.8	14.1
70°	49.8	45.5	35.7	32.0	27.1	22.7	20.3	17.2	12.9	9.8	9.2
72.5°	29.5	28.9	27.1	24.0	20.3	17.2	14.8	11.7	8.6	5.5	5.5
75°	18.4	17.8	18.4	16.6	14.1	12.9	11.1	8.0	4.9	2.5	2.5
77.5°	11.1	11.1	11.1	10.5	9.8	9.8	8.0	4.9	2.5	0.6	0.6
80°	8.6	8.6	9.2	8.6	8.6	8.6	6.8	3.7	1.2	0.0	0.0
82.5°	8.6	9.2	10.5	9.8	8.6	7.4	6.1	3.7	1.2	0.0	0.0
85°	2.5	1.8	3.1	4.3	6.1	5.5	4.3	3.1	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0	0.0
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)