

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: P652168

Luminaire Tested: **GALN-SA1B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2831.6 lumens
Efficiency: N/A
Efficacy: 64.4 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

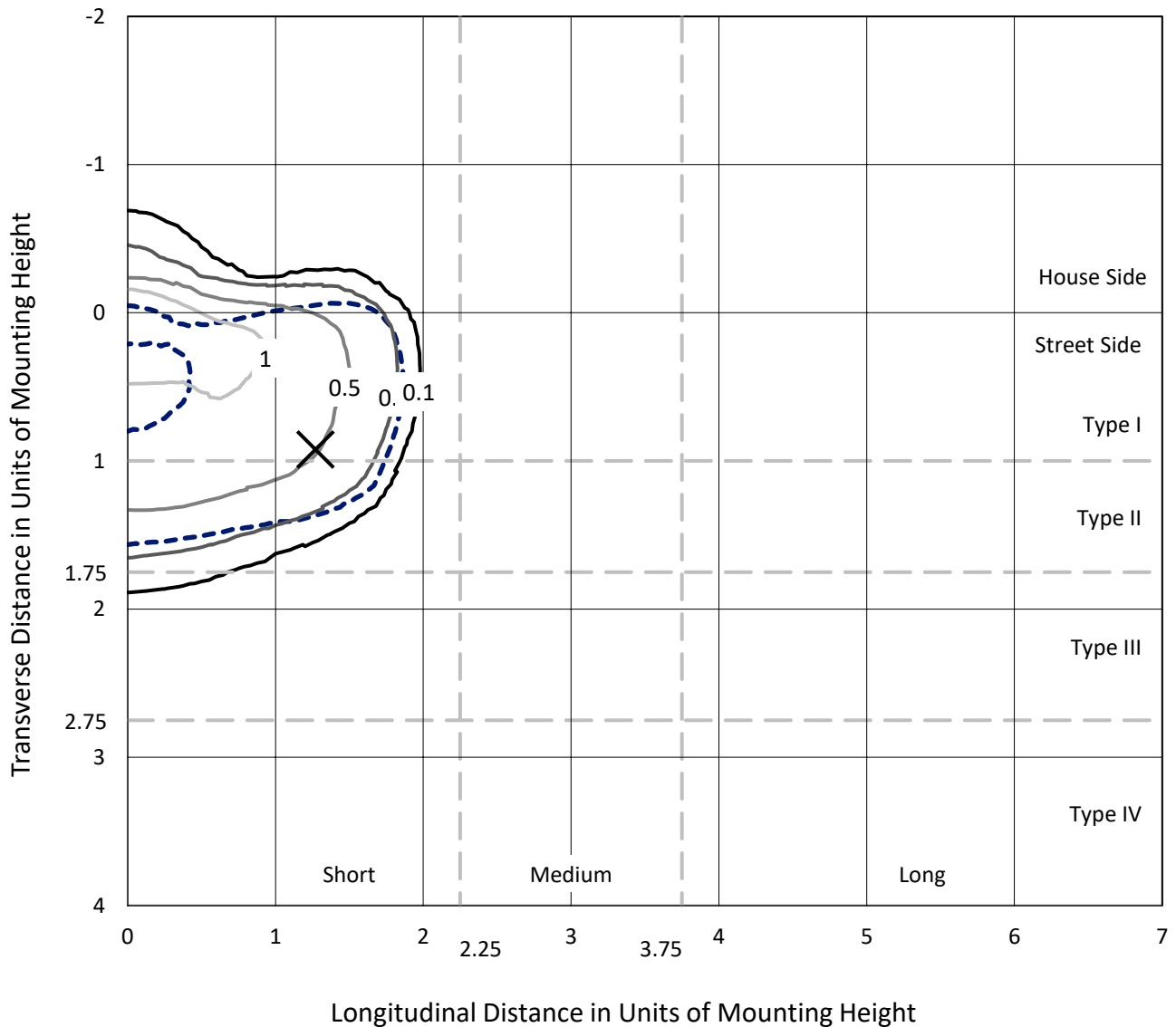
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

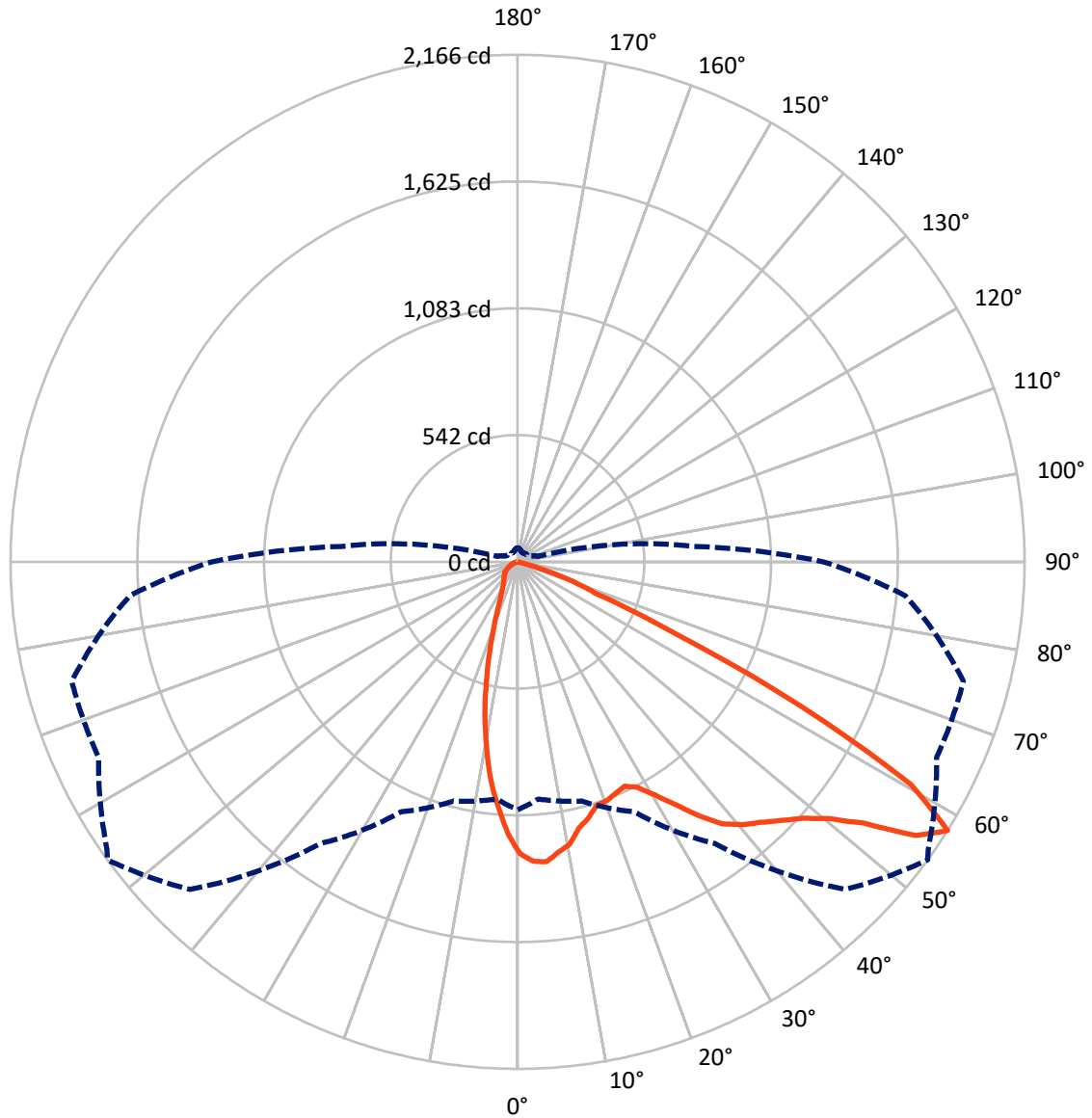
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	400.2	0.0	400.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2431.5	0.0	2431.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	2831.6	0.0	2831.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.7
10°-20°	222.9	7.9
20°-30°	295.3	10.4
30°-40°	429.2	15.2
40°-50°	636.4	22.5
50°-60°	795.8	28.1
60°-70°	313.9	11.1
70°-80°	31.2	1.1
80°-90°	2.4	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°	2831.6	100.0
0°-180°	2831.6	100.0

Coefficient of Utilization

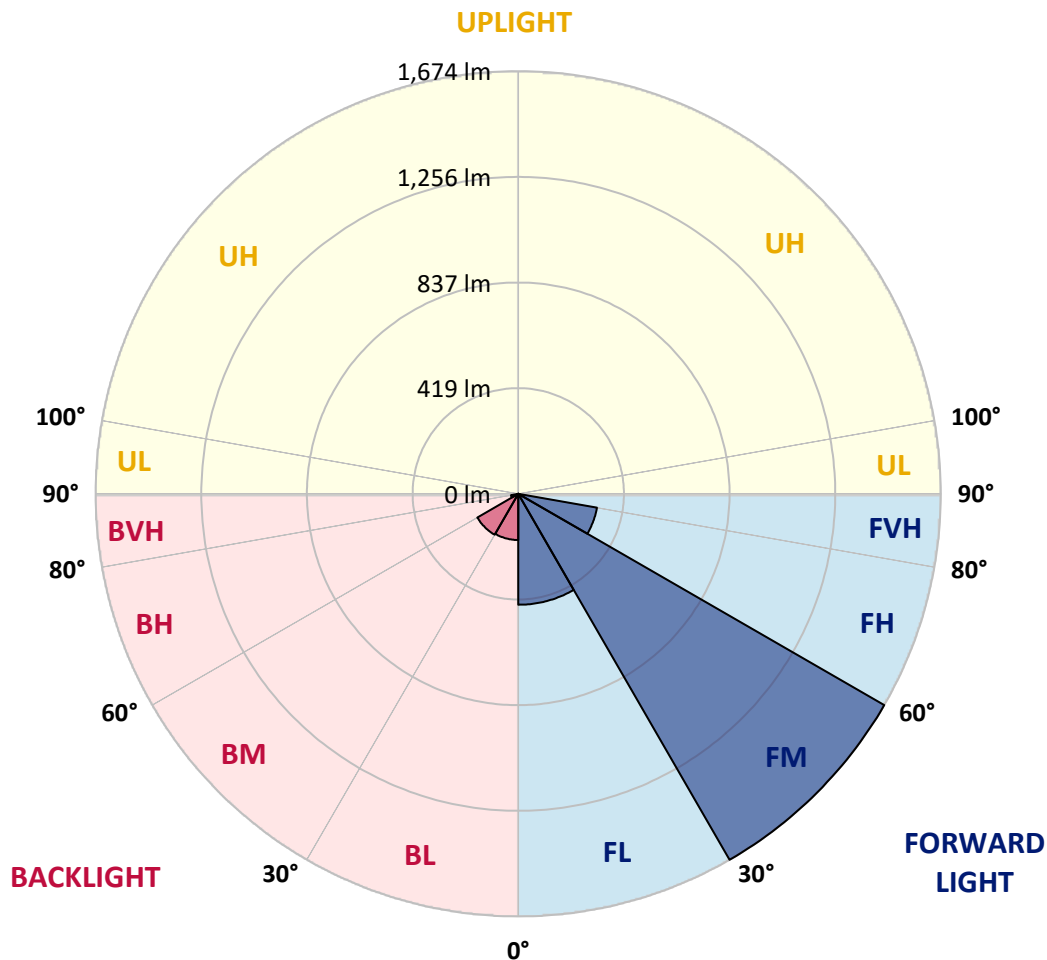


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.6	15.5			
FM (30°-60°)	1674.3	59.1			
FH (60°-80°)	316.5	11.2			G0/660
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	183.0	6.5	B1/500		
BM (30°-60°)	187.1	6.6	B0/220		
BH (60°-80°)	28.7	1.0	B0/110		G0/110
BVH (80°-90°)	1.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1320.0	1306.3	1307.4	1302.6	1296.3	1301.1	1280.6	1285.3	1284.8	1256.9	1238.5
5°	1286.9	1301.6	1286.3	1299.0	1286.9	1300.0	1287.4	1277.9	1262.7	1242.1	1207.9
7.5°	1230.6	1216.3	1220.5	1236.4	1239.0	1268.5	1252.7	1264.8	1258.5	1217.9	1171.0
10°	1117.4	1114.2	1135.3	1156.3	1182.1	1213.6	1225.8	1218.9	1214.2	1198.9	1136.3
12.5°	1030.5	1039.4	1038.9	1073.6	1117.4	1135.3	1166.8	1165.8	1192.1	1163.7	1103.6
15°	947.8	952.5	974.6	996.2	1044.7	1095.7	1134.7	1140.0	1171.6	1151.6	1078.3
17.5°	897.3	890.4	907.8	933.6	983.0	1049.9	1093.1	1105.7	1148.9	1144.7	1049.4
20°	847.2	847.2	861.4	892.0	937.2	1012.6	1089.4	1085.7	1148.9	1136.8	1018.4
22.5°	830.3	838.8	842.4	865.6	919.4	984.1	1073.6	1080.4	1157.9	1133.1	1004.7
25°	853.5	842.4	843.5	861.9	912.5	970.4	1062.0	1077.3	1174.2	1151.6	993.6
27.5°	857.2	868.2	871.4	884.1	917.8	974.6	1091.0	1122.1	1214.7	1194.7	996.8
30°	889.4	900.4	899.9	921.5	944.6	1008.9	1155.8	1162.1	1298.4	1249.0	1016.3
32.5°	928.3	939.9	943.6	968.8	987.2	1071.5	1234.8	1251.1	1379.0	1334.2	1067.3
35°	976.7	972.5	989.4	1014.7	1054.1	1163.1	1331.1	1358.5	1465.9	1444.8	1120.0
37.5°	1037.3	1032.0	1048.3	1089.4	1143.1	1271.6	1420.1	1438.0	1529.1	1547.5	1217.3
40°	1079.9	1082.0	1131.6	1186.8	1243.7	1374.8	1476.5	1493.8	1573.3	1643.3	1291.1
42.5°	1151.0	1164.2	1223.7	1291.1	1350.6	1452.2	1522.2	1539.1	1593.9	1720.2	1390.6
45°	1254.2	1248.5	1314.2	1389.6	1455.4	1532.7	1576.5	1570.7	1606.0	1796.5	1453.2
47.5°	1386.9	1388.0	1431.6	1495.9	1564.3	1602.8	1637.0	1616.5	1631.2	1877.1	1537.0
50°	1477.5	1485.4	1520.6	1586.5	1620.7	1679.6	1723.4	1710.8	1706.0	1925.6	1589.7
52.5°	1500.7	1524.3	1543.3	1625.4	1705.5	1798.6	1854.5	1881.3	1797.0	1941.9	1656.5
55°	1325.8	1346.9	1413.8	1526.4	1737.6	1987.2	2064.1	2064.6	1916.1	2014.5	1703.4
57.5°	1059.9	1017.3	1058.3	1177.9	1469.1	1979.3	2166.2	2141.4	1975.6	1971.9	1662.8
60°	732.9	722.4	725.0	772.5	1016.8	1574.4	1930.3	1962.4	1819.2	1709.2	1316.3
62.5°	580.8	571.8	560.3	555.0	631.3	980.9	1361.7	1406.9	1272.1	1108.4	780.4
65°	454.9	449.7	451.3	472.3	471.8	556.6	744.5	726.1	581.3	429.7	245.4
67.5°	307.0	314.9	321.2	384.9	417.6	387.5	359.6	349.1	189.1	79.5	54.2
70°	172.7	173.8	180.6	240.6	317.0	300.7	248.0	248.0	94.3	28.9	31.0
72.5°	94.3	91.1	84.8	103.7	141.1	143.2	110.6	96.4	27.9	18.9	17.4
75°	45.8	45.2	38.9	32.1	30.5	25.3	19.5	17.9	12.6	12.1	10.5
77.5°	9.5	8.9	4.7	4.7	5.3	5.8	7.4	7.4	8.9	8.9	7.4
80°	0.0	0.0	0.5	2.1	3.7	5.3	6.3	6.3	7.4	7.4	5.8
82.5°	0.0	0.0	0.5	1.6	3.2	4.7	5.8	6.3	7.4	7.9	6.3
85°	0.0	0.0	0.0	1.1	2.6	3.7	3.2	3.2	2.6	2.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1229.0	1227.9	1203.6	1190.0	1165.2	1143.7	1126.3	1113.7	1113.7	1105.7	1098.3
5°	1194.2	1185.2	1133.7	1100.4	1053.6	1018.9	995.2	976.7	947.8	955.7	924.6
7.5°	1151.0	1128.4	1059.9	1009.4	944.6	895.2	844.5	799.8	756.6	737.1	747.6
10°	1104.7	1065.2	973.0	893.0	812.5	721.9	662.9	591.3	547.1	544.5	532.9
12.5°	1055.7	1011.0	898.8	788.3	682.4	573.4	483.4	416.5	386.5	353.3	359.6
15°	1018.9	952.5	816.1	682.9	542.4	432.3	341.7	290.1	261.7	253.8	251.1
17.5°	978.8	907.8	731.9	570.8	425.5	311.2	245.9	221.2	210.1	210.1	208.5
20°	937.2	857.2	648.2	466.5	319.1	232.2	197.0	189.1	188.5	188.0	188.0
22.5°	909.9	799.3	572.4	370.7	240.6	185.9	171.1	167.9	170.1	176.4	176.4
25°	880.9	743.4	488.6	285.9	186.4	159.5	151.1	153.2	158.5	164.2	162.1
27.5°	851.4	707.1	409.7	224.3	152.7	139.5	136.4	141.1	146.9	152.1	150.6
30°	844.5	668.2	334.9	170.1	131.1	121.6	123.7	127.9	133.7	135.8	137.9
32.5°	855.1	637.6	274.3	139.5	114.3	111.6	111.6	113.7	117.4	122.2	120.6
35°	885.2	620.2	216.9	121.1	104.8	102.2	101.6	103.7	105.8	107.4	105.8
37.5°	930.9	606.6	177.5	107.4	98.5	94.3	93.2	92.7	94.8	95.3	96.4
40°	989.4	613.9	150.6	99.0	92.2	87.4	84.3	84.3	84.3	85.9	86.4
42.5°	1052.6	623.9	130.0	94.3	86.4	80.6	77.4	76.4	77.4	79.5	79.0
45°	1118.9	643.4	116.9	86.9	81.1	73.8	69.5	68.5	71.1	75.3	74.8
47.5°	1181.0	671.4	106.9	82.2	75.9	69.0	63.7	62.7	67.4	73.2	73.8
50°	1243.2	719.8	103.2	78.5	72.2	64.3	59.5	58.4	63.7	71.1	72.7
52.5°	1314.7	771.9	100.6	73.8	68.0	60.6	55.3	54.2	60.0	69.5	70.1
55°	1361.7	816.1	98.5	65.3	60.0	54.7	50.5	50.0	56.3	64.8	66.9
57.5°	1306.9	754.5	91.1	56.9	51.0	48.4	44.7	44.7	50.0	57.9	59.5
60°	991.0	496.5	64.8	45.8	43.1	41.6	40.0	40.0	44.2	50.0	50.5
62.5°	580.3	267.5	41.6	36.8	36.8	35.2	32.6	32.6	36.8	40.0	40.5
65°	172.2	85.9	33.7	31.6	31.0	28.4	25.8	25.3	28.4	30.0	29.5
67.5°	49.5	39.5	27.9	26.3	25.8	21.6	20.0	19.5	20.0	18.9	18.4
70°	29.5	26.8	21.6	22.1	19.5	15.8	14.2	13.7	12.6	11.0	10.0
72.5°	16.3	16.3	15.8	16.8	13.7	10.5	8.9	7.4	5.8	4.7	4.2
75°	10.0	10.5	11.0	11.6	8.9	6.8	5.8	3.7	2.1	1.1	1.1
77.5°	6.8	7.4	7.9	8.4	7.4	6.3	4.7	2.6	0.5	0.0	0.0
80°	5.3	5.8	6.8	7.4	7.9	8.4	6.3	2.6	0.5	0.0	0.0
82.5°	5.8	6.3	7.9	7.4	7.4	7.4	5.8	2.6	0.5	0.0	0.0
85°	1.1	1.6	2.6	2.6	3.7	4.7	3.7	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)