

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: P945614

Luminaire Tested: **GALN-SB1C-735-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

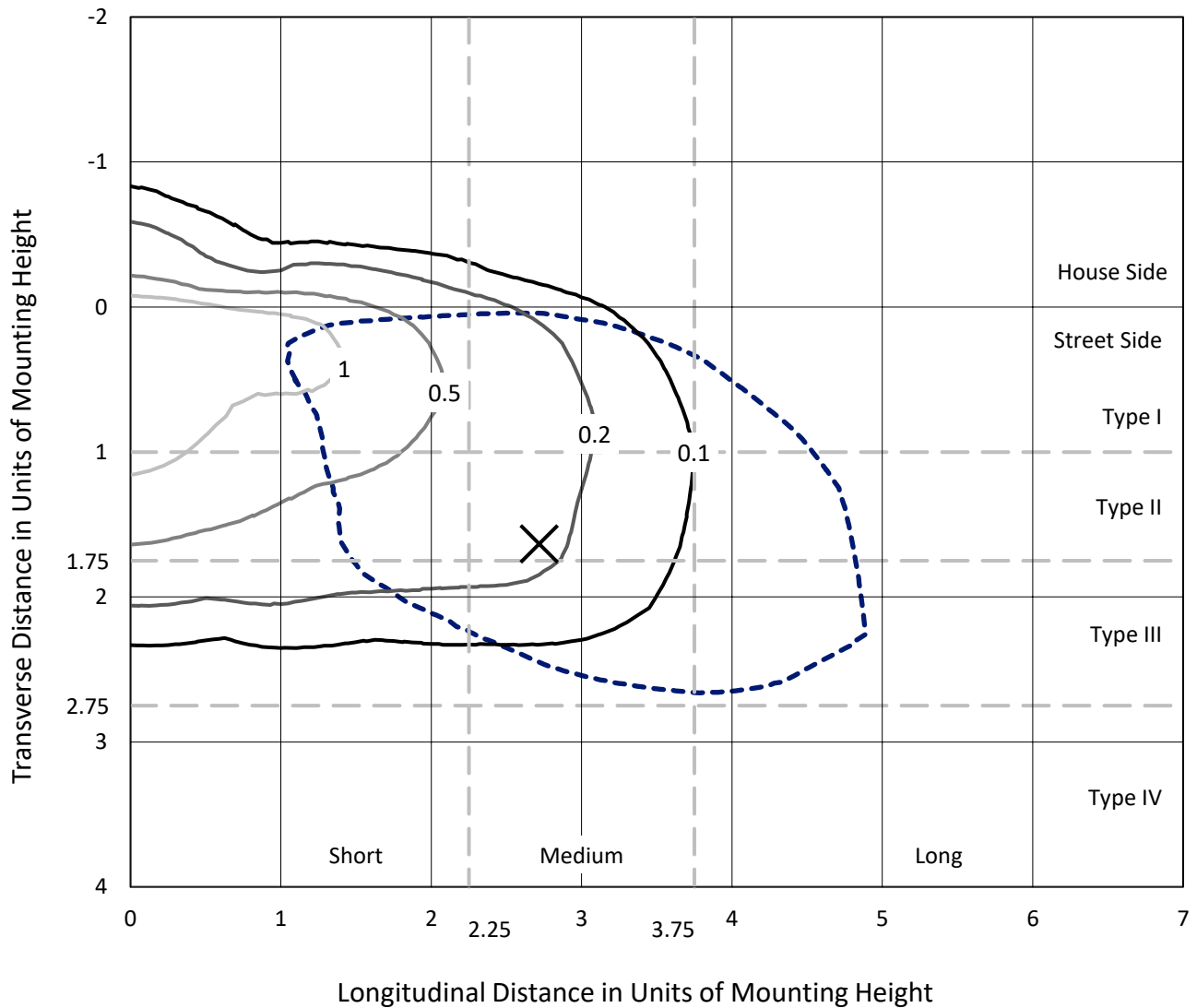
Lumens per Lamp: N/A  
Luminaire Lumens: 6033 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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

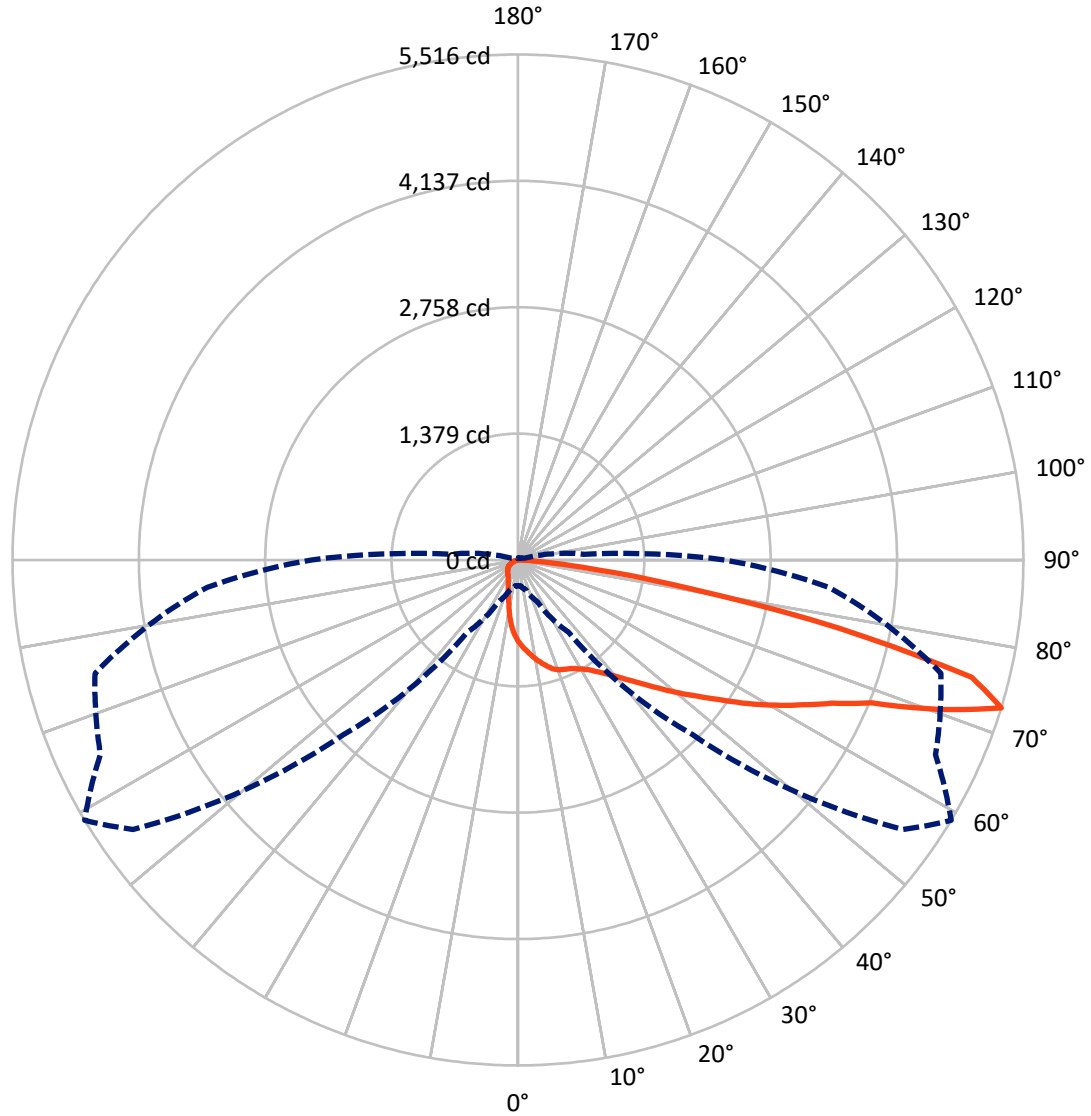
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	637.2	0.0	637.2
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	5395.8	0.0	5395.8
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	6033.0	0.0	6033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	1.3
10°-20°	214.4	3.6
20°-30°	339.8	5.6
30°-40°	545.3	9.0
40°-50°	870.9	14.4
50°-60°	1261.0	20.9
60°-70°	1496.5	24.8
70°-80°	1110.9	18.4
80°-90°	113.6	1.9
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°	6033.0	100.0
0°-180°	6033.0	100.0

**Coefficient of Utilization**



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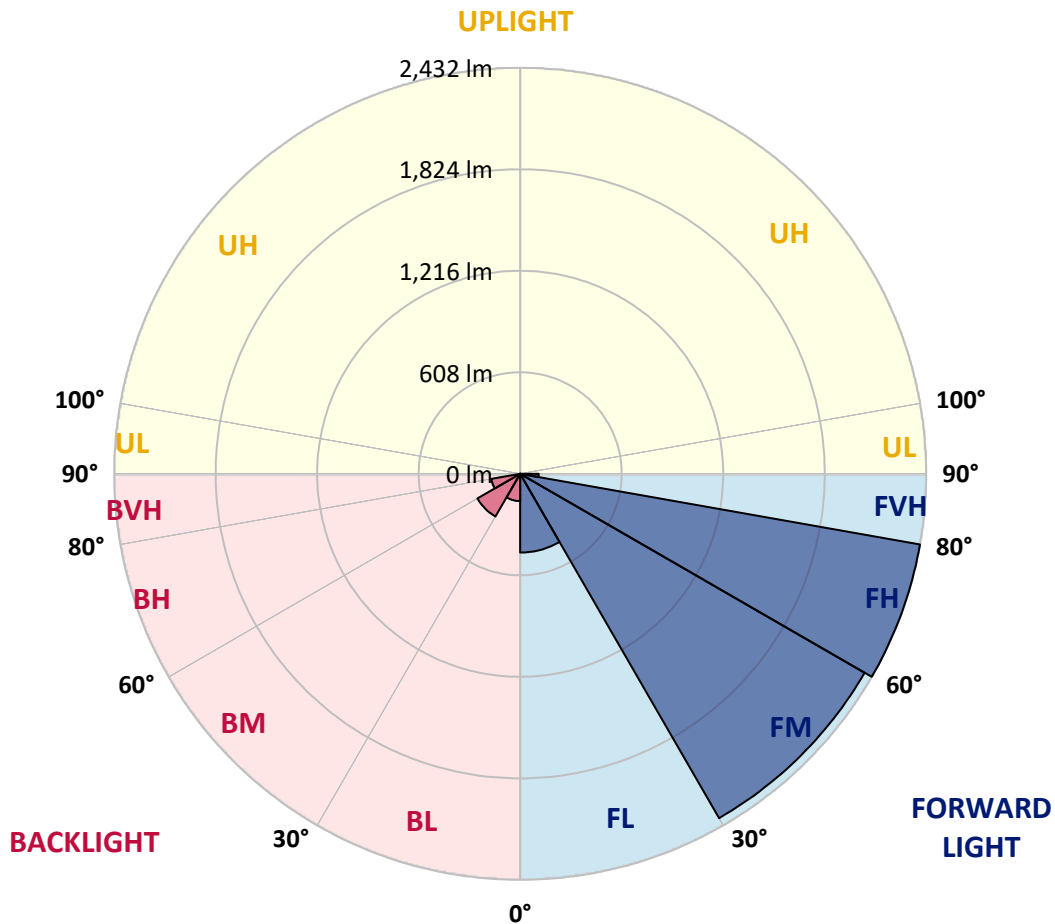
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.6	7.8			
FM (30°-60°)	2381.7	39.5			
FH (60°-80°)	2431.6	40.3			G2/5000
FVH (80°-90°)	110.8	1.8			G2/225
BL (0°-30°)	163.2	2.7	B1/500		
BM (30°-60°)	295.4	4.9	B1/1000		
BH (60°-80°)	175.7	2.9	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1
2.5°	989.8	984.3	985.1	975.6	968.9	961.9	948.1	946.1	936.3	918.9
5°	1076.1	1072.5	1069.4	1058.7	1045.0	1027.6	1004.4	996.1	978.0	948.1
7.5°	1139.1	1134.8	1136.3	1125.7	1114.7	1095.4	1063.5	1048.1	1024.1	978.4
10°	1151.3	1148.9	1159.2	1163.1	1163.1	1150.9	1119.8	1104.4	1069.4	1011.1
12.5°	1082.8	1083.2	1108.8	1139.5	1179.7	1191.1	1170.2	1153.7	1119.0	1045.7
15°	1002.8	1003.2	1028.0	1067.4	1133.2	1199.0	1215.5	1204.9	1169.0	1083.2
17.5°	954.8	952.8	969.3	1001.6	1070.6	1163.1	1243.1	1250.2	1221.0	1124.5
20°	948.1	944.5	953.2	969.3	1018.6	1118.2	1246.2	1279.7	1274.6	1171.4
22.5°	989.0	983.5	978.8	979.6	1000.5	1080.8	1238.4	1296.3	1329.7	1227.7
25°	1070.2	1061.5	1046.1	1026.4	1022.1	1072.9	1232.8	1314.4	1380.9	1299.8
27.5°	1169.4	1157.2	1127.7	1098.1	1072.9	1095.0	1244.3	1343.1	1438.8	1383.7
30°	1278.5	1263.6	1234.0	1178.1	1137.9	1144.2	1271.4	1380.9	1512.9	1478.6
32.5°	1438.8	1404.2	1352.6	1267.1	1213.9	1197.4	1312.4	1429.0	1604.7	1605.1
35°	1576.3	1557.0	1505.0	1398.7	1289.6	1267.9	1366.4	1496.7	1731.9	1772.5
37.5°	1666.5	1640.1	1594.4	1514.5	1406.9	1340.4	1438.4	1579.9	1866.6	1963.1
40°	1767.3	1741.3	1680.7	1605.5	1543.2	1464.8	1529.4	1675.6	2014.3	2158.9
42.5°	1889.0	1855.2	1783.5	1702.3	1637.4	1628.7	1648.4	1794.9	2165.9	2371.5
45°	2032.0	2000.1	1917.8	1815.4	1758.3	1742.9	1798.1	1933.9	2334.9	2604.7
47.5°	2165.9	2128.9	2040.3	1946.9	1883.5	1835.1	1957.2	2098.2	2526.3	2848.5
50°	2279.8	2242.0	2160.8	2061.2	2018.2	1954.8	2113.6	2281.3	2716.2	3096.3
52.5°	2357.8	2324.3	2229.0	2161.2	2132.1	2100.2	2296.7	2475.5	2905.3	3323.2
55°	2340.0	2310.1	2226.2	2221.5	2219.5	2253.0	2515.7	2695.7	3097.9	3537.8
57.5°	2283.7	2249.8	2145.1	2217.1	2286.9	2389.3	2752.8	2956.1	3309.0	3740.3
60°	2117.9	2106.1	2042.3	2208.9	2315.2	2522.8	3023.8	3217.6	3537.4	3918.3
62.5°	1766.9	1777.2	1776.8	2226.2	2366.4	2674.8	3270.0	3482.3	3760.8	4089.7
65°	1323.0	1358.5	1403.8	2070.2	2435.0	2946.2	3564.2	3769.4	3987.6	4289.0
67.5°	889.0	917.3	948.1	1698.4	2230.9	3231.4	4053.0	4162.9	4259.4	4509.9
70°	508.9	518.0	560.9	1060.7	1719.7	3152.6	4849.1	4888.8	4664.7	4782.1
72.5°	285.2	282.0	338.7	503.4	961.1	2699.6	5127.9	5515.9	5027.5	4777.8
75°	190.6	191.0	233.2	317.5	374.6	1889.8	4418.9	5114.5	4810.1	4236.6
77.5°	130.0	134.3	171.3	245.4	173.3	922.1	2923.4	3582.7	3894.3	3271.6
80°	56.3	56.7	113.0	176.1	117.0	293.4	1515.6	1919.4	2442.4	1837.1
82.5°	29.1	33.1	72.1	113.8	73.7	102.8	716.1	838.6	1024.9	539.2
85°	10.2	12.2	44.5	55.9	37.0	36.6	249.3	254.1	217.0	81.1
87.5°	0.0	2.0	17.3	13.8	4.7	4.3	29.5	24.8	19.7	11.4
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
892.1	0°	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1	892.1
901.2	2.5°	892.9	882.3	865.0	843.7	818.9	805.5	786.2	774.4	763.7	764.1
913.4	5°	894.1	876.4	832.3	785.4	733.4	695.2	652.7	622.7	599.9	594.4
926.0	7.5°	897.7	867.7	795.6	717.6	631.0	566.8	508.1	471.1	450.2	444.7
939.0	10°	902.4	858.3	754.3	634.9	527.4	450.2	401.4	377.7	368.3	361.2
955.6	12.5°	906.3	848.4	702.3	549.5	435.2	375.0	337.9	318.3	310.0	304.9
974.9	15°	913.0	835.4	646.0	469.9	373.0	323.8	288.7	274.1	271.8	272.6
996.1	17.5°	919.7	822.8	582.9	407.7	327.3	278.9	257.6	255.2	258.4	261.5
1020.5	20°	927.2	804.7	519.1	360.8	285.2	247.8	242.2	243.8	245.4	250.9
1054.0	22.5°	938.2	781.9	463.2	321.0	250.1	232.8	230.0	231.2	232.4	237.9
1098.1	25°	954.0	757.4	417.9	284.4	228.1	220.6	217.8	217.8	219.4	224.5
1149.3	27.5°	970.5	722.8	381.3	250.5	215.1	207.2	202.5	202.5	204.4	210.3
1213.5	30°	989.0	691.3	352.5	225.3	204.0	193.8	187.5	185.9	188.3	195.8
1306.5	32.5°	1022.5	670.8	332.0	213.5	194.2	181.6	172.9	168.6	170.9	179.6
1436.5	35°	1073.3	666.1	317.9	207.6	184.7	170.5	158.3	151.6	153.6	162.7
1596.8	37.5°	1132.8	675.9	304.1	199.7	175.7	159.9	143.8	135.1	138.3	146.5
1779.9	40°	1218.3	716.9	293.4	193.8	166.6	147.3	129.2	120.5	125.6	132.7
1970.6	42.5°	1321.5	789.7	290.7	188.3	155.6	133.9	115.8	109.5	113.4	120.1
2163.2	45°	1449.5	882.7	303.3	181.2	143.4	120.9	105.2	101.6	102.8	109.5
2345.2	47.5°	1586.9	978.0	337.9	174.9	132.7	110.3	96.9	93.7	93.0	99.3
2511.4	50°	1726.0	1062.7	378.9	170.2	125.3	101.6	90.6	86.7	84.7	88.6
2675.6	52.5°	1863.4	1130.0	405.7	162.3	117.8	93.0	85.1	79.2	75.6	77.6
2839.1	55°	2002.9	1189.1	407.3	150.5	110.7	87.4	79.6	72.9	68.5	68.5
2996.6	57.5°	2133.3	1241.1	384.0	134.7	100.8	82.3	72.1	66.6	61.8	60.3
3136.5	60°	2248.7	1279.7	345.4	117.0	92.2	75.6	64.6	60.3	54.4	51.2
3260.9	62.5°	2351.5	1298.6	292.7	98.9	81.5	67.7	57.5	52.8	44.9	41.0
3387.4	65°	2438.5	1279.3	237.5	81.9	72.5	59.1	49.2	44.5	35.8	31.1
3529.6	67.5°	2524.8	1191.1	179.6	68.9	63.0	49.6	40.6	36.2	29.9	26.0
3633.1	70°	2535.8	1005.6	125.6	57.9	52.4	38.2	32.7	29.9	24.4	20.9
3401.9	72.5°	2257.3	723.6	76.4	47.3	41.0	27.2	26.0	23.6	18.1	15.8
2779.6	75°	1804.4	443.5	44.9	35.4	27.2	19.3	19.3	16.9	12.2	10.2
1919.0	77.5°	1247.0	232.0	26.4	22.8	16.1	11.4	12.6	10.2	5.9	4.7
760.2	80°	499.4	88.2	14.2	10.6	7.5	5.1	4.3	2.4	1.2	0.8
156.0	82.5°	99.7	23.2	4.7	2.8	2.8	1.2	0.0	0.0	0.0	0.0
42.9	85°	25.6	5.1	1.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
14.2	87.5°	7.9	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

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180°  
892.1  
772.8  
602.6  
450.2  
365.5  
307.6  
273.7  
262.7  
252.5  
239.5  
226.5  
212.7  
197.7  
182.0  
165.4  
148.9  
133.9  
121.3  
112.6  
103.2  
90.2  
79.2  
69.3  
60.7  
50.4  
40.6  
31.1  
26.0  
20.5  
15.4  
10.2  
4.7  
1.2  
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