

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: P946046

Luminaire Tested: **GALN-SB1D-760-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

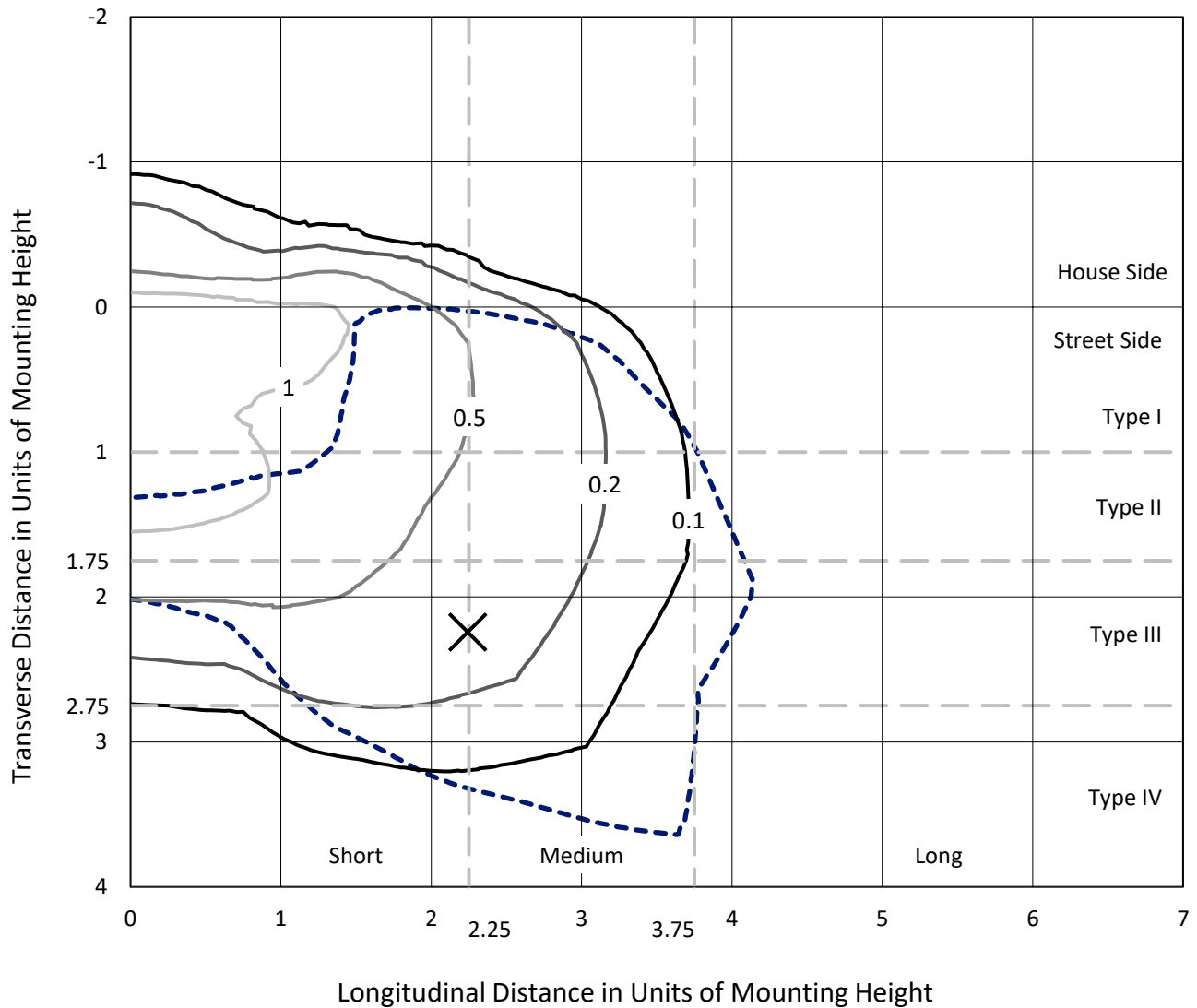
Lumens per Lamp: N/A  
Luminaire Lumens: 8296 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

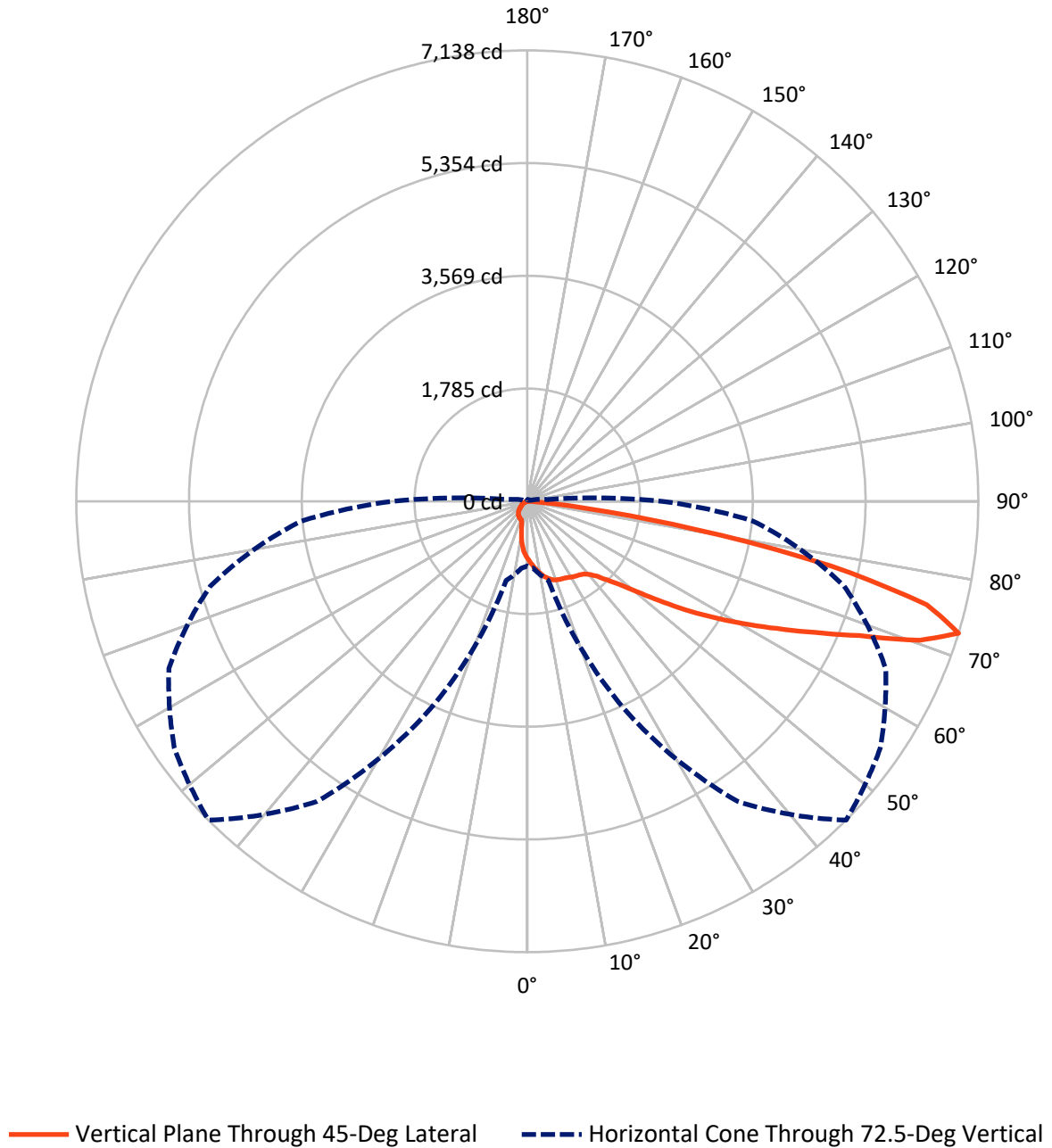
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	871.7	0.0	871.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7424.3	0.0	7424.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	8296.0	0.0	8296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	1.0
10°-20°	250.3	3.0
20°-30°	411.0	5.0
30°-40°	582.9	7.0
40°-50°	963.4	11.6
50°-60°	1730.6	20.9
60°-70°	2403.1	29.0
70°-80°	1743.1	21.0
80°-90°	126.0	1.5
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°	8296.0	100.0
0°-180°	8296.0	100.0

**Coefficient of Utilization**



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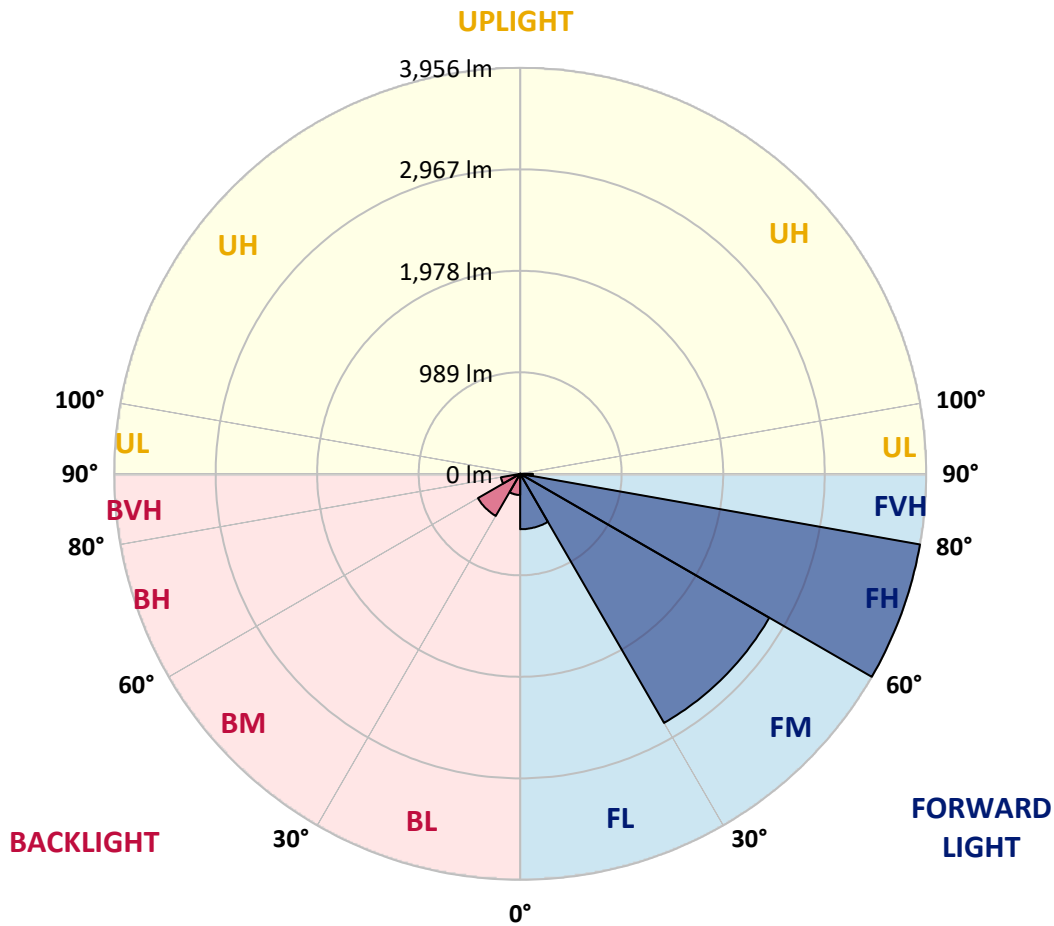
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.4	6.5			
FM (30°-60°)	2802.8	33.8			
FH (60°-80°)	3956.1	47.7			G2/5000
FVH (80°-90°)	125.0	1.5			G2/225
BL (0°-30°)	206.5	2.5	B1/500		
BM (30°-60°)	474.1	5.7	B1/1000		
BH (60°-80°)	190.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8
2.5°	992.7	994.3	993.2	986.4	975.1	968.9	965.5	954.1	946.8	933.8
5°	1083.8	1090.6	1086.6	1073.1	1051.5	1036.3	1031.7	1008.5	987.6	963.2
7.5°	1180.6	1184.0	1176.7	1159.1	1130.3	1104.2	1100.2	1068.0	1034.6	997.2
10°	1264.5	1268.4	1257.1	1231.6	1198.8	1166.5	1160.8	1125.2	1085.5	1039.7
12.5°	1334.7	1338.6	1323.9	1293.3	1257.1	1223.7	1218.0	1180.6	1137.0	1086.1
15°	1387.9	1395.3	1375.4	1342.6	1303.5	1270.1	1267.3	1230.5	1188.0	1131.4
17.5°	1419.0	1426.4	1407.7	1368.1	1334.7	1306.4	1303.0	1272.4	1232.7	1178.4
20°	1424.1	1430.9	1411.1	1376.6	1348.8	1326.2	1324.5	1302.4	1273.5	1221.4
22.5°	1408.9	1417.3	1399.2	1371.5	1352.2	1340.3	1338.1	1325.6	1309.2	1265.0
25°	1393.0	1399.8	1386.2	1361.9	1351.7	1350.5	1352.2	1350.0	1346.6	1309.2
27.5°	1391.9	1399.2	1383.9	1360.7	1355.1	1366.9	1368.6	1379.4	1382.2	1349.4
30°	1401.5	1406.6	1391.9	1367.5	1364.7	1391.9	1392.4	1411.7	1416.2	1383.4
32.5°	1422.4	1428.1	1413.4	1377.7	1373.7	1411.7	1413.4	1438.9	1446.2	1419.6
35°	1471.7	1478.5	1461.5	1406.0	1391.9	1430.4	1435.5	1465.5	1480.2	1458.1
37.5°	1594.6	1574.8	1551.5	1463.2	1433.2	1459.8	1468.3	1503.4	1529.5	1504.0
40°	1899.8	1837.5	1765.0	1560.6	1505.7	1522.7	1529.5	1564.6	1600.2	1575.3
42.5°	2357.9	2284.3	2167.6	1784.8	1615.0	1623.5	1628.6	1659.1	1709.5	1689.7
45°	2766.2	2739.6	2620.6	2167.6	1819.4	1777.5	1783.7	1799.6	1873.7	1866.4
47.5°	3079.9	3064.6	2972.9	2607.1	2164.8	1966.0	1983.6	1991.0	2098.0	2124.0
50°	3321.1	3315.4	3233.3	2997.8	2616.1	2244.1	2250.3	2234.5	2394.7	2459.3
52.5°	3548.7	3568.0	3507.4	3360.7	3098.0	2608.2	2607.1	2532.3	2748.6	2846.0
55°	3754.3	3761.1	3767.3	3731.1	3582.7	3022.7	3011.9	2889.6	3159.2	3259.9
57.5°	3947.4	3950.2	4005.7	4079.9	4087.3	3467.8	3447.9	3301.3	3607.6	3679.5
60°	4077.1	4090.1	4207.3	4413.4	4503.5	3927.0	3916.2	3766.7	4064.0	4097.4
62.5°	3890.2	3969.5	4265.1	4673.9	4896.4	4436.1	4431.0	4290.5	4544.2	4517.0
65°	3149.0	3283.2	3803.0	4850.0	5282.1	5004.6	5012.0	4862.5	5037.4	4949.1
67.5°	2202.7	2344.3	2959.3	4864.2	5713.0	5672.2	5714.7	5480.2	5561.2	5363.0
70°	1523.2	1596.3	1996.6	4559.5	6048.8	6591.8	6590.7	6239.0	6082.2	5551.6
72.5°	1024.4	1062.3	1296.7	3617.3	5801.9	7138.3	7105.4	6818.9	6257.7	5192.0
75°	432.1	459.8	600.2	2032.9	4590.1	6530.7	6441.8	6026.1	5560.1	4088.4
77.5°	137.0	148.9	236.7	727.6	2528.3	4908.9	4814.9	3763.4	3726.5	2051.0
80°	65.1	75.9	133.1	292.2	994.9	2669.9	2656.9	1707.3	1603.1	553.8
82.5°	28.3	33.4	73.6	156.3	445.1	952.4	971.7	581.0	480.8	210.1
85°	9.1	11.9	34.0	71.9	188.0	236.7	233.9	138.2	193.7	114.4
87.5°	0.0	0.0	11.3	16.4	19.3	13.6	15.3	11.9	53.8	31.7
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°
908.8	0°	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8	908.8
920.2	2.5°	913.4	904.3	888.5	873.7	860.7	847.7	839.8	828.4	827.3	827.3
934.9	5°	919.6	904.9	876.6	846.6	812.0	779.2	746.3	714.6	704.4	697.1
958.7	7.5°	937.7	914.5	869.8	812.6	746.9	675.0	624.6	570.2	549.3	537.9
990.4	10°	963.8	932.1	864.1	763.9	657.4	559.5	487.5	428.7	406.0	396.4
1024.9	12.5°	992.7	953.6	853.9	703.3	559.5	442.2	372.0	344.9	341.5	341.5
1066.3	15°	1027.2	979.6	836.4	631.9	457.0	349.9	325.0	326.2	329.6	331.8
1106.5	17.5°	1062.9	1007.4	808.6	552.1	366.4	314.8	315.4	317.1	319.9	322.2
1150.1	20°	1101.4	1035.1	771.8	467.2	314.3	304.6	306.3	308.0	310.3	311.4
1190.8	22.5°	1142.7	1061.2	728.2	383.9	296.7	296.2	296.7	298.4	301.2	301.2
1238.4	25°	1186.9	1090.0	678.4	323.3	287.7	287.7	288.8	289.9	292.2	292.2
1284.3	27.5°	1232.2	1116.7	625.7	291.6	279.7	279.2	279.2	280.9	282.0	282.6
1329.6	30°	1282.0	1147.8	573.1	284.8	273.5	270.7	269.0	270.1	271.2	271.8
1377.1	32.5°	1333.0	1177.8	526.1	287.7	267.3	262.2	256.5	255.4	255.4	257.6
1426.4	35°	1389.6	1210.7	489.8	297.3	263.9	249.7	240.7	235.6	236.1	239.5
1485.3	37.5°	1457.5	1250.3	463.2	305.8	261.6	235.6	220.8	214.6	210.6	214.6
1566.3	40°	1546.5	1308.6	443.9	312.6	258.8	219.1	199.3	189.1	181.8	184.0
1692.0	42.5°	1677.3	1400.4	436.6	313.1	252.6	199.9	177.2	163.6	152.9	153.5
1881.1	45°	1860.7	1545.3	474.5	305.8	239.0	178.9	154.0	135.9	129.1	127.4
2163.7	47.5°	2112.1	1756.5	562.3	290.5	219.1	158.6	131.4	116.1	111.0	108.2
2534.6	50°	2449.1	2027.8	659.7	273.5	199.3	139.3	112.7	103.1	99.7	96.8
2974.6	52.5°	2839.8	2303.0	739.5	256.5	179.5	122.3	100.8	95.1	92.3	90.0
3399.2	55°	3198.2	2492.7	735.0	238.4	160.3	108.7	92.3	88.9	85.5	83.2
3765.1	57.5°	3421.3	2519.3	605.9	218.6	138.2	98.0	84.4	82.1	78.1	75.3
4081.6	60°	3523.8	2367.5	424.7	192.5	116.1	87.8	75.9	74.7	69.6	65.7
4381.1	62.5°	3542.5	2085.5	283.1	160.3	96.8	78.1	67.4	65.7	58.9	52.1
4624.6	65°	3466.6	1682.4	195.9	125.1	82.7	68.0	57.8	54.4	47.0	40.2
4682.4	67.5°	3226.5	1181.2	136.5	90.0	70.2	53.8	45.9	44.7	39.1	33.4
4387.9	70°	2786.6	673.3	91.2	67.4	55.5	36.8	36.2	37.4	31.7	27.2
3585.0	72.5°	2136.5	308.0	56.6	49.3	37.9	24.9	28.9	29.4	24.3	20.4
2236.7	75°	1257.7	131.9	35.7	31.7	19.3	16.4	21.0	21.5	16.4	13.0
817.7	77.5°	428.1	49.8	22.7	18.7	9.6	9.1	13.6	13.6	9.1	5.1
164.2	80°	97.4	18.7	11.3	7.4	4.5	4.0	4.5	4.0	2.3	0.6
50.4	82.5°	27.7	7.4	4.5	2.8	1.7	1.7	0.6	0.0	0.0	0.0
17.6	85°	7.9	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	3.4	0.6	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°  
908.8  
830.1  
700.5  
539.6  
396.4  
341.5  
331.8  
322.2  
312.0  
302.4  
292.8  
283.1  
272.9  
259.3  
241.2  
213.5  
182.9  
151.2  
125.1  
106.5  
96.3  
89.5  
82.1  
74.7  
64.6  
48.7  
37.9  
31.7  
24.9  
*18.1*  
11.3  
4.0  
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