

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: P945866

Luminaire Tested: **GALN-SB1C-940-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945866  
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-940-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

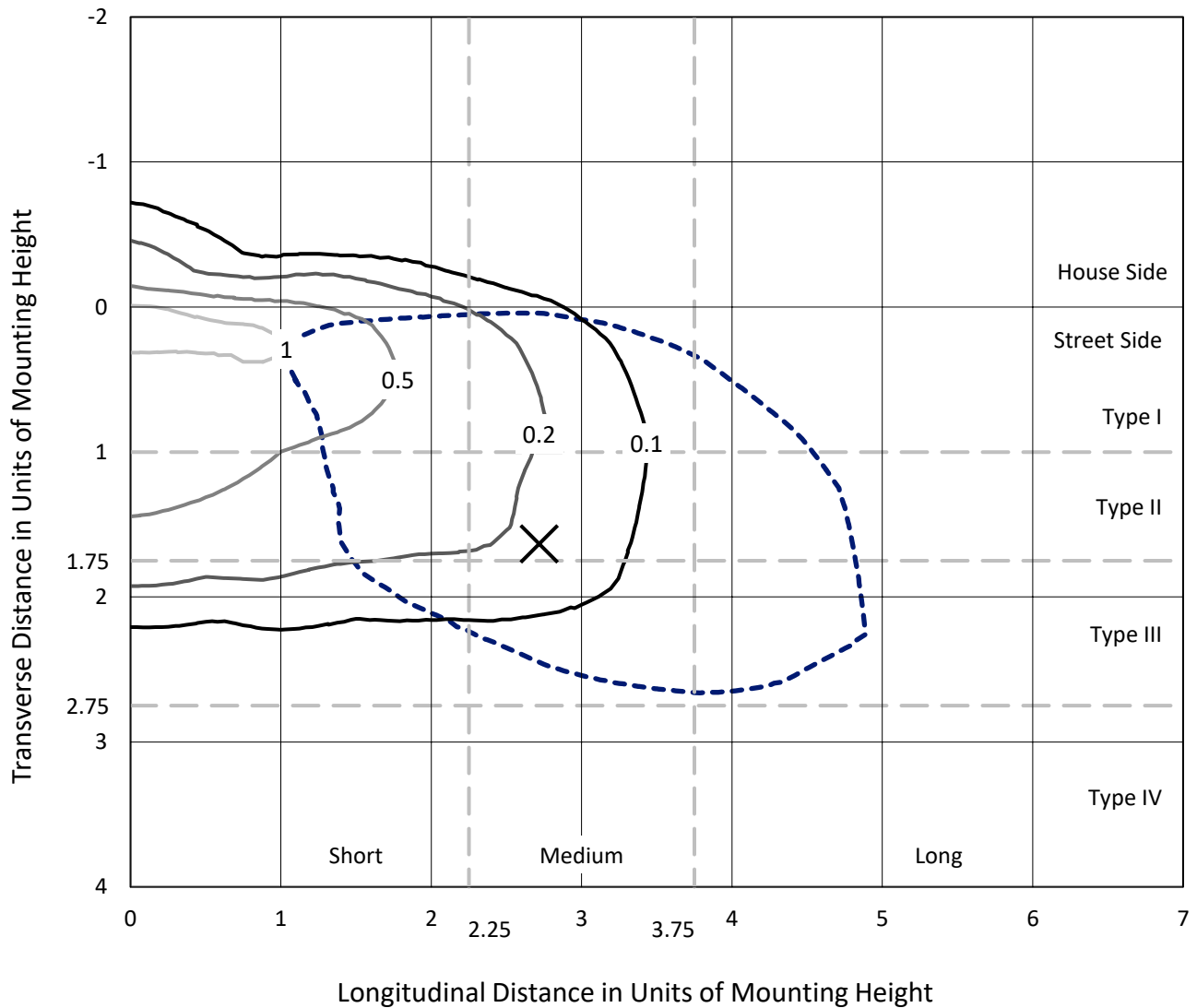
Lumens per Lamp: N/A  
Luminaire Lumens: 4372 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

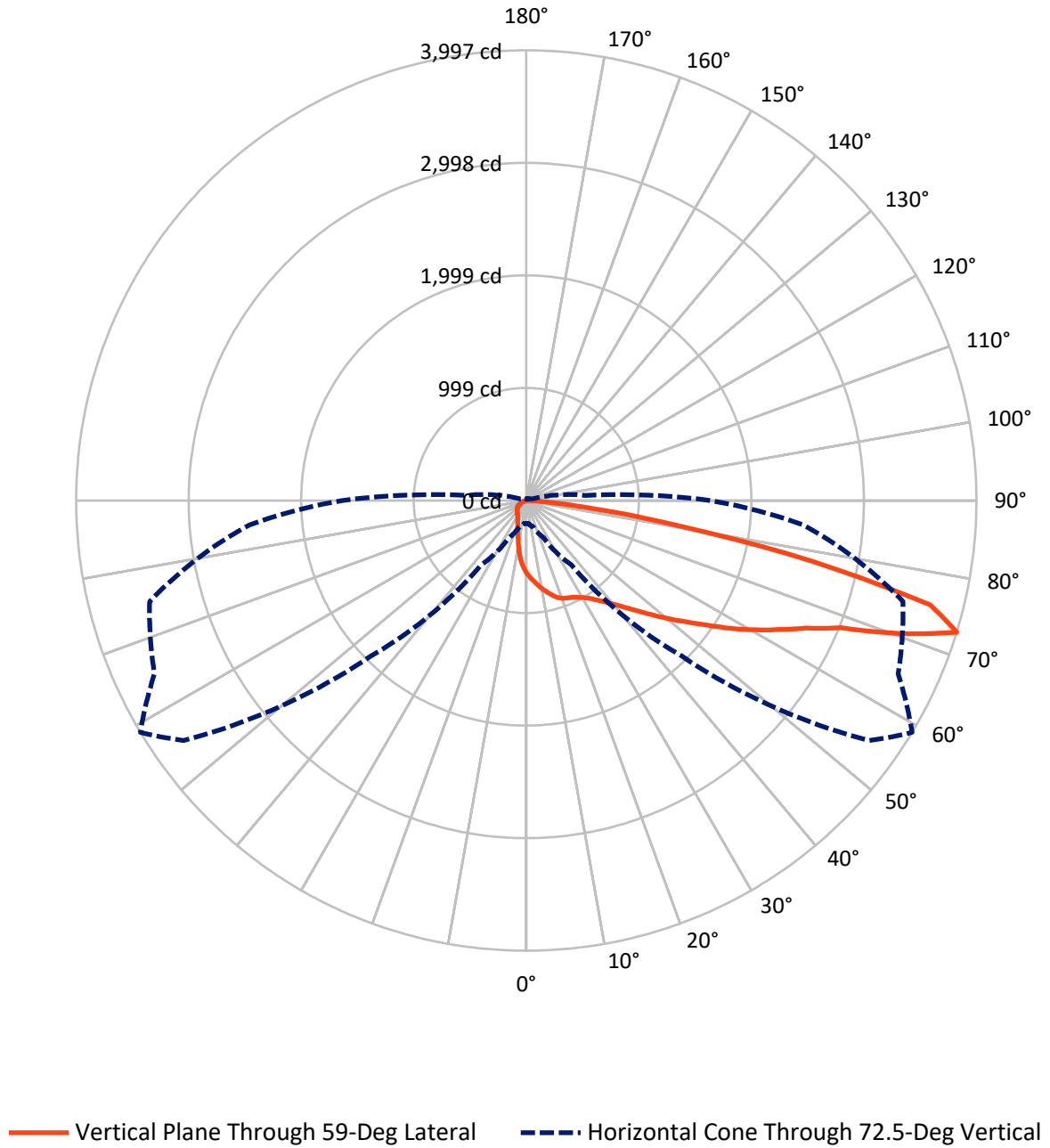
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	461.8	0.0	461.8
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	3910.2	0.0	3910.2
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	4372.0	0.0	4372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	1.3
10°-20°	155.4	3.6
20°-30°	246.2	5.6
30°-40°	395.2	9.0
40°-50°	631.1	14.4
50°-60°	913.8	20.9
60°-70°	1084.5	24.8
70°-80°	805.1	18.4
80°-90°	82.3	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°	4372.0	100.0
0°-180°	4372.0	100.0

**Coefficient of Utilization**



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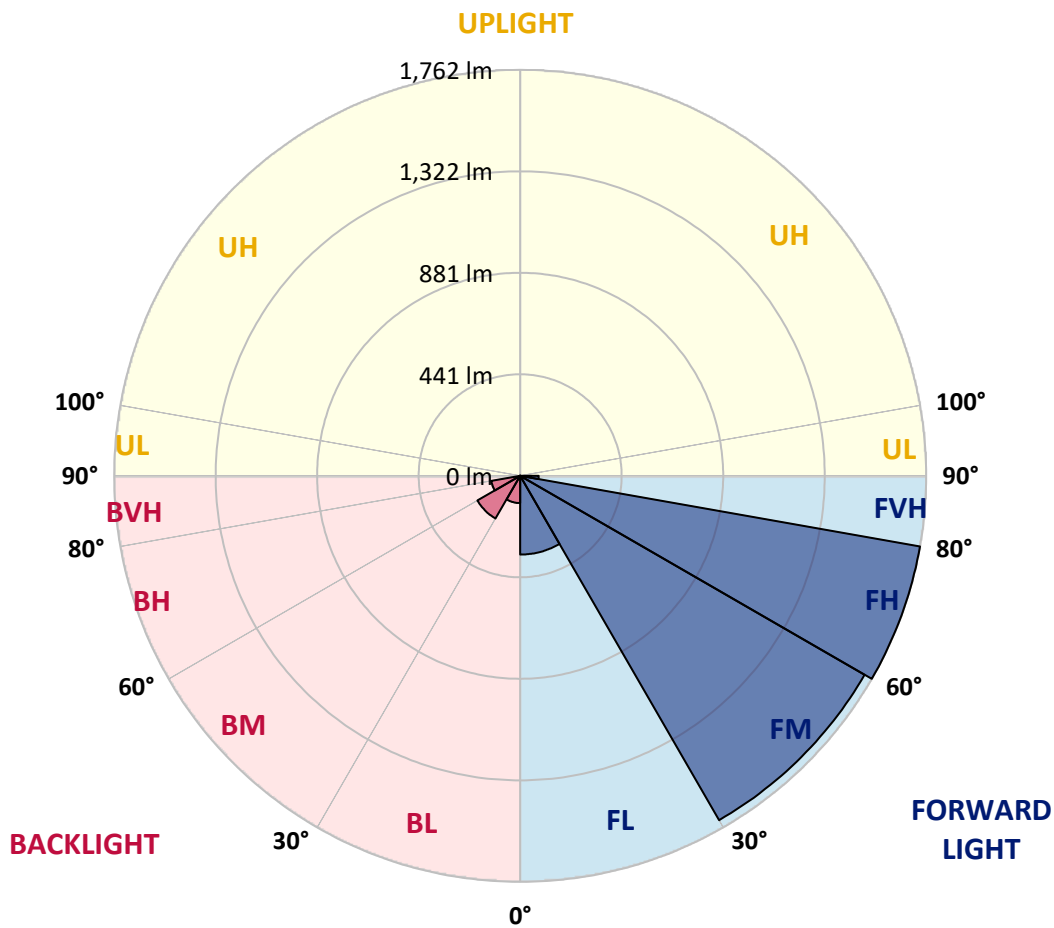
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.8	7.8			
FM (30°-60°)	1726.0	39.5			
FH (60°-80°)	1762.2	40.3			G1/1800
FVH (80°-90°)	80.3	1.8			G1/100
BL (0°-30°)	118.3	2.7	B1/500		
BM (30°-60°)	214.1	4.9	B0/220		
BH (60°-80°)	127.3	2.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
2.5°	717.3	713.3	713.9	707.0	702.2	697.0	687.0	685.6	678.5	665.9
5°	779.8	777.2	775.0	767.3	757.3	744.7	727.9	721.9	708.7	687.0
7.5°	825.5	822.3	823.5	815.8	807.8	793.8	770.7	759.5	742.1	709.0
10°	834.3	832.6	840.0	842.9	842.9	834.0	811.5	800.4	775.0	732.7
12.5°	784.7	785.0	803.5	825.8	854.9	863.2	848.0	836.0	810.9	757.8
15°	726.7	727.0	745.0	773.5	821.2	868.9	880.9	873.2	847.2	785.0
17.5°	691.9	690.5	702.5	725.9	775.8	842.9	900.8	906.0	884.9	814.9
20°	687.0	684.5	690.8	702.5	738.1	810.4	903.1	927.4	923.7	848.9
22.5°	716.7	712.7	709.3	709.9	725.0	783.2	897.4	939.4	963.6	889.7
25°	775.5	769.3	758.1	743.8	740.7	777.5	893.4	952.5	1000.7	941.9
27.5°	847.5	838.6	817.2	795.8	777.5	793.5	901.7	973.3	1042.7	1002.7
30°	926.5	915.7	894.3	853.7	824.6	829.2	921.4	1000.7	1096.4	1071.5
32.5°	1042.7	1017.6	980.2	918.3	879.7	867.7	951.1	1035.6	1162.9	1163.2
35°	1142.3	1128.3	1090.7	1013.6	934.5	918.8	990.2	1084.7	1255.1	1284.5
37.5°	1207.7	1188.6	1155.4	1097.5	1019.6	971.3	1042.4	1144.9	1352.7	1422.6
40°	1280.8	1261.9	1218.0	1163.4	1118.3	1061.5	1108.4	1214.2	1459.7	1564.5
42.5°	1369.0	1344.4	1292.5	1233.7	1186.6	1180.3	1194.6	1300.7	1569.6	1718.6
45°	1472.6	1449.4	1389.8	1315.6	1274.2	1263.1	1303.0	1401.5	1692.1	1887.6
47.5°	1569.6	1542.8	1478.6	1410.9	1365.0	1329.9	1418.3	1520.5	1830.8	2064.3
50°	1652.1	1624.7	1565.9	1493.7	1462.6	1416.6	1531.7	1653.3	1968.4	2243.8
52.5°	1708.6	1684.4	1615.3	1566.2	1545.1	1521.9	1664.4	1794.0	2105.4	2408.2
55°	1695.8	1674.1	1613.3	1609.9	1608.4	1632.7	1823.1	1953.5	2245.0	2563.8
57.5°	1655.0	1630.4	1554.5	1606.7	1657.2	1731.5	1994.9	2142.2	2398.0	2710.5
60°	1534.8	1526.2	1480.0	1600.7	1677.8	1828.2	2191.3	2331.7	2563.5	2839.5
62.5°	1280.5	1287.9	1287.6	1613.3	1714.9	1938.4	2369.7	2523.5	2725.4	2963.7
65°	958.8	984.5	1017.3	1500.3	1764.6	2135.1	2582.9	2731.6	2889.8	3108.1
67.5°	644.2	664.8	687.0	1230.8	1616.7	2341.7	2937.1	3016.8	3086.7	3268.3
70°	368.8	375.3	406.5	768.7	1246.2	2284.6	3514.0	3542.8	3380.4	3465.5
72.5°	206.7	204.4	245.5	364.8	696.5	1956.4	3716.1	3997.3	3643.3	3462.4
75°	138.2	138.4	169.0	230.1	271.5	1369.5	3202.3	3706.4	3485.8	3070.2
77.5°	94.2	97.3	124.2	177.8	125.6	668.2	2118.5	2596.3	2822.1	2370.8
80°	40.8	41.1	81.9	127.6	84.8	212.7	1098.4	1390.9	1770.0	1331.3
82.5°	21.1	24.0	52.2	82.5	53.4	74.5	518.9	607.7	742.7	390.8
85°	7.4	8.8	32.3	40.5	26.8	26.5	180.7	184.1	157.3	58.8
87.5°	0.0	1.4	12.6	10.0	3.4	3.1	21.4	18.0	14.3	8.3
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°
646.5	0°	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5	646.5
653.1	2.5°	647.1	639.4	626.8	611.4	593.4	583.7	569.7	561.2	553.5	553.7
661.9	5°	647.9	635.1	603.1	569.2	531.5	503.8	473.0	451.3	434.7	430.7
671.1	7.5°	650.5	628.8	576.6	520.1	457.3	410.7	368.2	341.4	326.3	322.3
680.5	10°	653.9	622.0	546.6	460.1	382.2	326.3	290.9	273.7	266.9	261.7
692.5	12.5°	656.8	614.8	508.9	398.2	315.4	271.7	244.9	230.6	224.6	220.9
706.5	15°	661.6	605.4	468.1	340.5	270.3	234.6	209.2	198.7	197.0	197.5
721.9	17.5°	666.5	596.3	422.4	295.4	237.2	202.1	186.7	185.0	187.2	189.5
739.6	20°	671.9	583.1	376.2	261.5	206.7	179.5	175.5	176.7	177.8	181.8
763.8	22.5°	679.9	566.6	335.7	232.6	181.3	168.7	166.7	167.6	168.4	172.4
795.8	25°	691.3	548.9	302.8	206.1	165.3	159.8	157.8	157.8	159.0	162.7
832.9	27.5°	703.3	523.8	276.3	181.5	155.8	150.1	146.7	146.7	148.1	152.4
879.4	30°	716.7	500.9	255.5	163.3	147.9	140.4	135.9	134.7	136.4	141.9
946.8	32.5°	741.0	486.1	240.6	154.7	140.7	131.6	125.3	122.2	123.9	130.2
1041.0	35°	777.8	482.7	230.3	150.4	133.9	123.6	114.7	109.9	111.3	117.9
1157.2	37.5°	820.9	489.8	220.4	144.7	127.3	115.9	104.2	97.9	100.2	106.2
1289.9	40°	882.9	519.5	212.7	140.4	120.7	106.8	93.6	87.3	91.1	96.2
1428.0	42.5°	957.6	572.3	210.7	136.4	112.7	97.0	83.9	79.4	82.2	87.1
1567.6	45°	1050.4	639.7	219.8	131.3	103.9	87.6	76.2	73.6	74.5	79.4
1699.5	47.5°	1150.0	708.7	244.9	126.7	96.2	79.9	70.2	67.9	67.4	71.9
1819.9	50°	1250.8	770.1	274.6	123.3	90.8	73.6	65.7	62.8	61.4	64.2
1939.0	52.5°	1350.4	818.9	294.0	117.6	85.3	67.4	61.7	57.4	54.8	56.2
2057.4	55°	1451.4	861.7	295.1	109.0	80.2	63.4	57.7	52.8	49.7	49.7
2171.6	57.5°	1545.9	899.4	278.3	97.6	73.1	59.7	52.2	48.2	44.8	43.7
2272.9	60°	1629.6	927.4	250.3	84.8	66.8	54.8	46.8	43.7	39.4	37.1
2363.1	62.5°	1704.1	941.1	212.1	71.6	59.1	49.1	41.7	38.2	32.5	29.7
2454.8	65°	1767.1	927.1	172.1	59.4	52.5	42.8	35.7	32.3	26.0	22.5
2557.8	67.5°	1829.7	863.2	130.2	50.0	45.7	36.0	29.4	26.3	21.7	18.8
2632.9	70°	1837.6	728.7	91.1	42.0	38.0	27.7	23.7	21.7	17.7	15.1
2465.3	72.5°	1635.8	524.3	55.4	34.3	29.7	19.7	18.8	17.1	13.1	11.4
2014.3	75°	1307.6	321.4	32.5	25.7	19.7	14.0	14.0	12.3	8.8	7.4
1390.6	77.5°	903.7	168.1	19.1	16.6	11.7	8.3	9.1	7.4	4.3	3.4
550.9	80°	361.9	63.9	10.3	7.7	5.4	3.7	3.1	1.7	0.9	0.6
113.0	82.5°	72.2	16.8	3.4	2.0	2.0	0.9	0.0	0.0	0.0	0.0
31.1	85°	18.6	3.7	0.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0
10.3	87.5°	5.7	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°  
646.5  
560.0  
436.7  
326.3  
264.9  
222.9  
198.4  
190.4  
183.0  
173.5  
164.1  
154.1  
143.3  
131.9  
119.9  
107.9  
97.0  
87.9  
81.6  
74.8  
65.4  
57.4  
50.2  
44.0  
36.5  
29.4  
22.5  
18.8  
14.8  
*11.1*  
7.4  
3.4  
0.9  
0.0  
0.0  
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