

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: P939161

Luminaire Tested: **GALN-SB1C-850-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-850-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

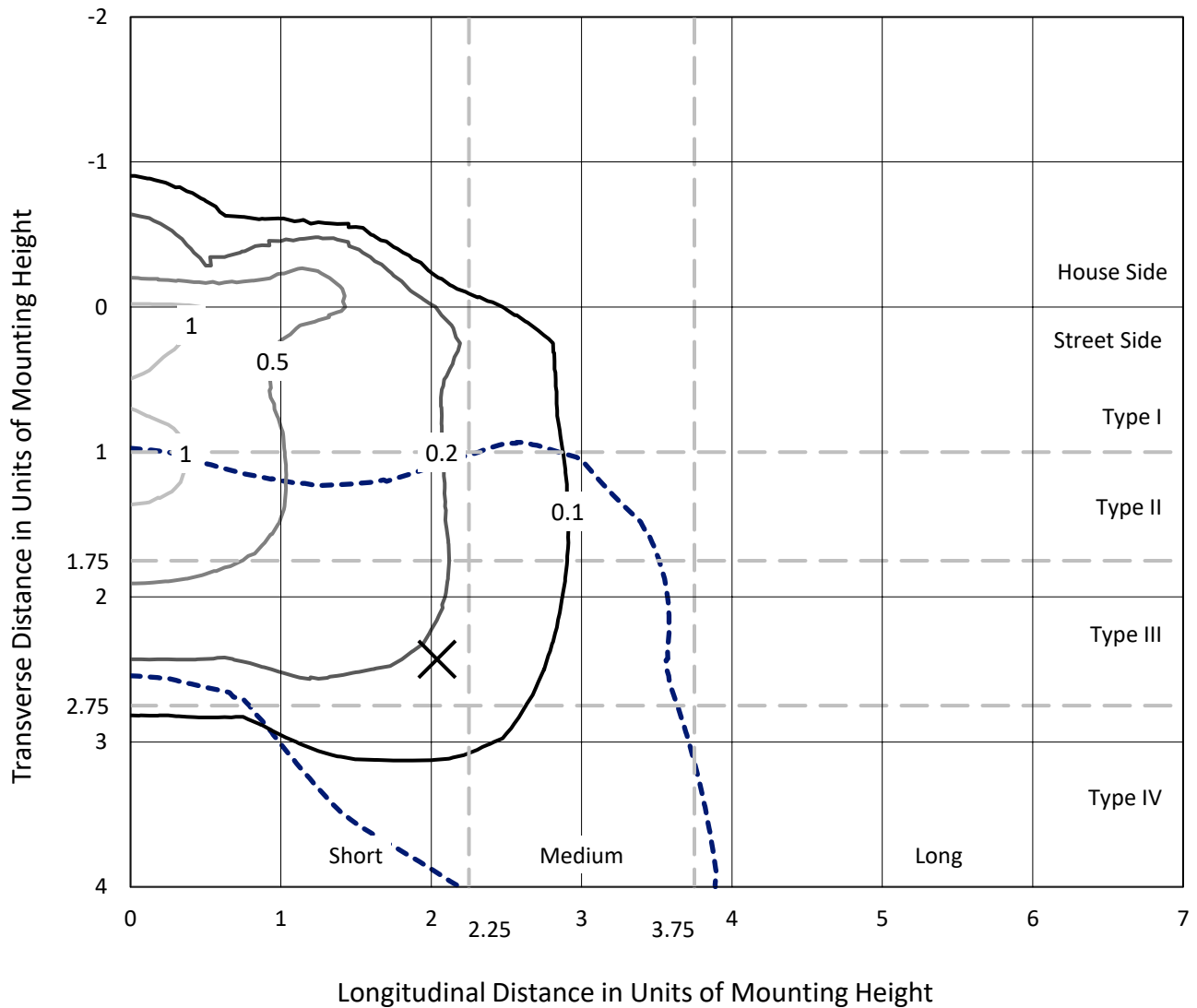
Lumens per Lamp: N/A  
Luminaire Lumens: 5002 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

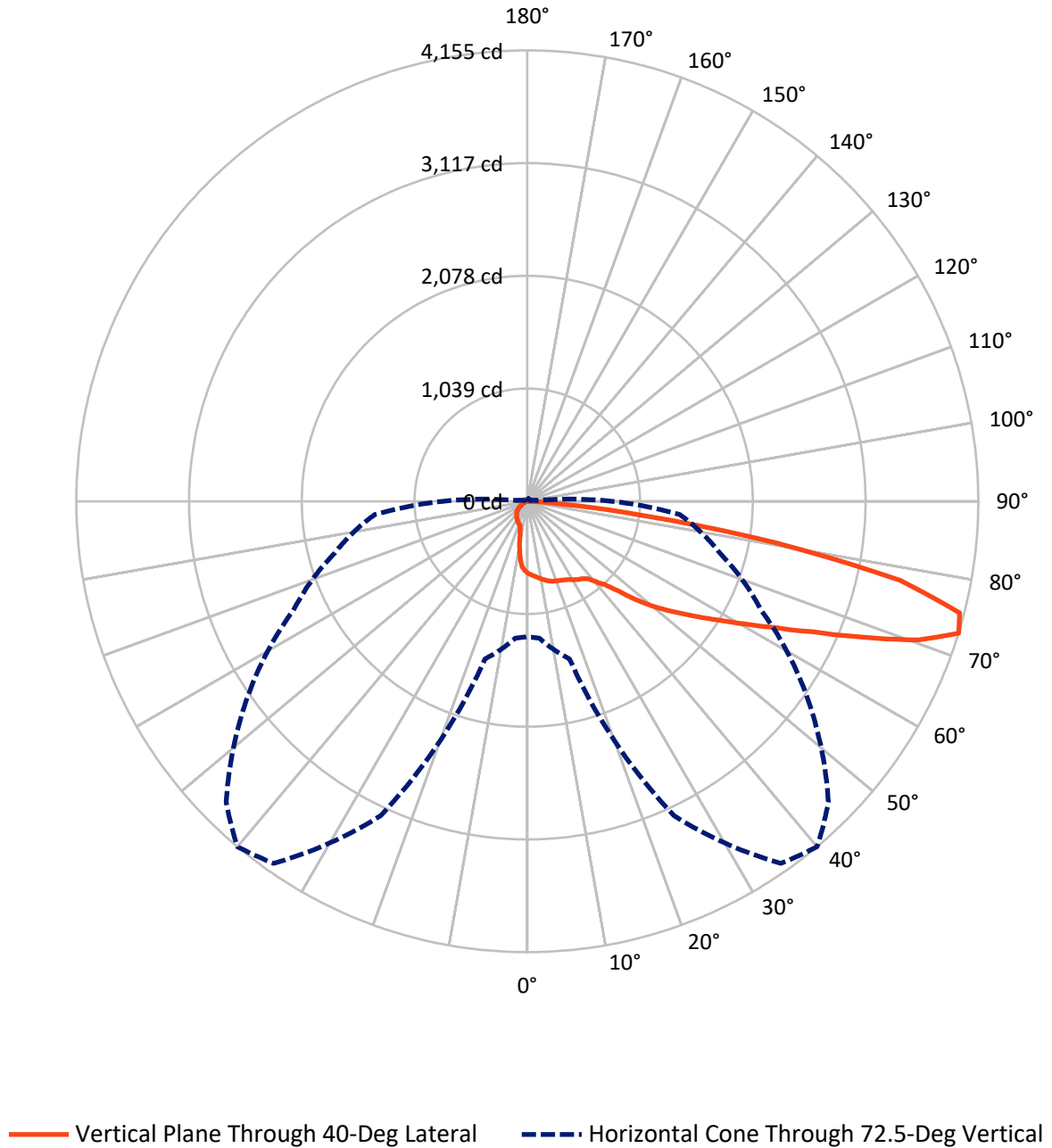
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	646.0	0.0	646.0
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	4356.0	0.0	4356.0
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	5002.0	0.0	5002.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	1.2
10°-20°	164.3	3.3
20°-30°	265.8	5.3
30°-40°	392.4	7.8
40°-50°	660.4	13.2
50°-60°	1025.4	20.5
60°-70°	1283.1	25.7
70°-80°	1050.5	21.0
80°-90°	99.6	2.0
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°	5002.0	100.0
0°-180°	5002.0	100.0

**Coefficient of Utilization**



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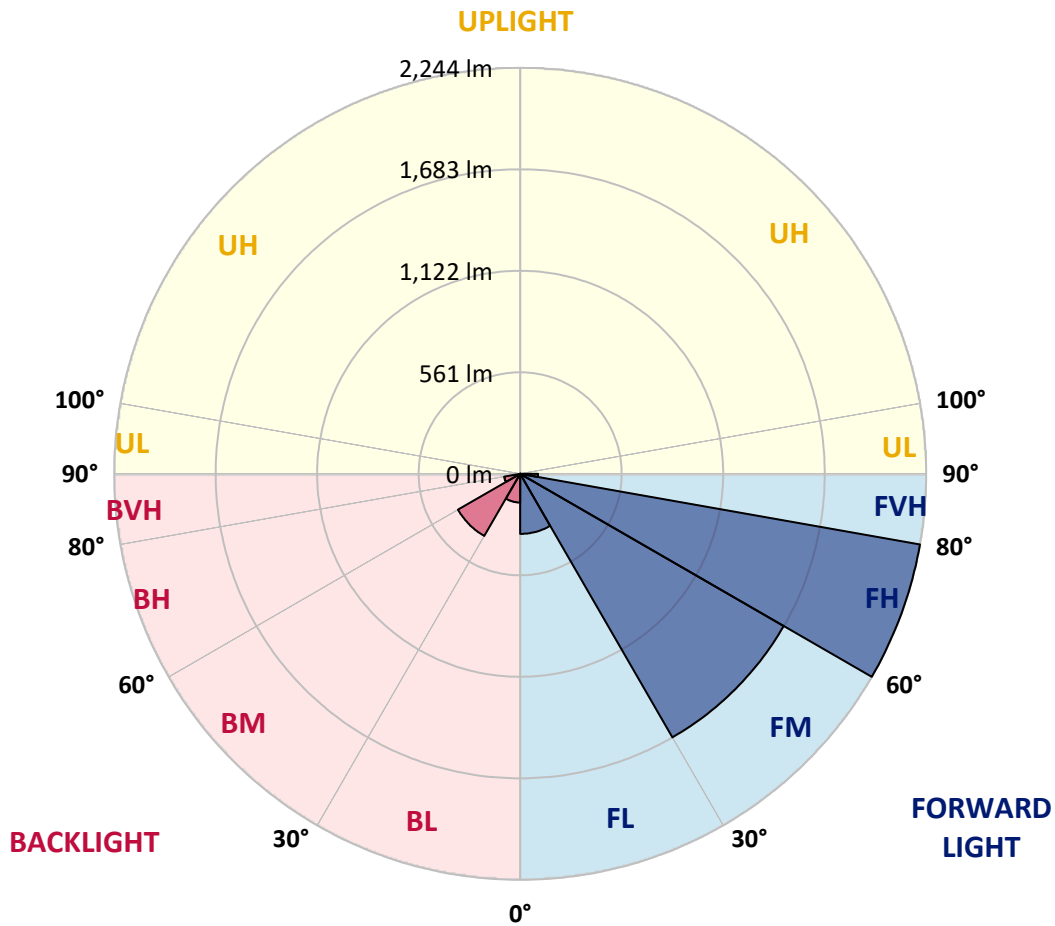
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.0	6.6			
FM (30°-60°)	1681.6	33.6			
FH (60°-80°)	2243.6	44.9			G2/5000
FVH (80°-90°)	98.9	2.0			G1/100
BL (0°-30°)	158.5	3.2	B1/500		
BM (30°-60°)	396.7	7.9	B1/1000		
BH (60°-80°)	90.0	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3
2.5°	682.3	684.9	683.4	680.4	679.6	678.1	676.2	675.5	672.9	670.6
5°	701.5	704.1	702.2	698.1	696.2	694.3	691.7	689.4	684.2	679.3
7.5°	722.6	724.8	722.6	716.6	713.5	711.3	707.5	704.1	698.1	690.9
10°	745.9	747.8	744.4	736.5	731.6	728.2	724.8	721.1	715.4	707.5
12.5°	767.8	770.1	764.8	755.4	749.7	746.3	742.6	739.5	733.9	726.4
15°	787.8	791.1	782.1	771.9	765.5	762.9	759.1	757.2	753.5	748.2
17.5°	802.8	805.1	795.7	783.6	776.5	774.6	771.9	773.1	772.3	769.7
20°	815.6	817.1	804.7	790.0	782.1	782.5	781.7	785.5	787.0	787.0
22.5°	831.5	831.8	816.0	797.6	788.1	790.8	791.9	796.0	799.1	802.1
25°	852.2	851.4	832.6	807.3	799.1	802.8	805.5	807.0	810.4	815.3
27.5°	883.1	880.8	856.7	823.2	813.4	816.8	821.7	820.9	819.4	823.2
30°	922.3	919.2	887.2	845.4	836.4	839.4	840.9	834.1	823.2	826.6
32.5°	984.4	979.1	934.7	870.3	856.3	859.7	857.8	843.9	827.7	831.1
35°	1092.5	1079.7	1016.8	922.3	878.9	875.2	870.6	857.1	837.1	833.7
37.5°	1322.4	1299.7	1192.4	1023.6	930.2	905.7	891.7	878.2	847.3	833.7
40°	1581.5	1558.6	1434.6	1193.1	1015.3	973.9	940.7	903.0	857.8	838.6
42.5°	1852.0	1826.8	1699.5	1403.3	1137.0	1051.9	990.1	923.0	875.2	853.7
45°	2154.2	2122.5	1956.0	1622.6	1313.7	1181.5	1069.6	964.1	905.3	880.4
47.5°	2472.9	2431.8	2211.8	1835.5	1503.9	1360.8	1215.0	1037.5	949.8	920.4
50°	2755.5	2714.8	2475.9	2058.1	1681.8	1531.4	1380.7	1139.3	1016.4	976.9
52.5°	2958.5	2927.6	2716.3	2287.9	1866.7	1691.6	1531.1	1257.6	1100.8	1049.2
55°	3094.5	3066.3	2886.6	2505.7	2081.9	1867.9	1679.1	1386.0	1202.5	1135.9
57.5°	3177.0	3160.8	3009.8	2700.1	2295.1	2060.8	1848.7	1527.3	1322.4	1238.0
60°	3206.4	3193.2	3086.2	2885.4	2552.8	2292.5	2047.9	1686.7	1467.8	1354.0
62.5°	3128.1	3130.7	3141.2	3105.1	2824.4	2563.7	2286.8	1878.0	1629.0	1485.5
65°	2759.2	2781.1	2981.5	3348.4	3184.2	2903.5	2590.8	2111.6	1813.6	1635.0
67.5°	2284.5	2316.2	2565.6	3490.9	3567.7	3344.7	3014.3	2409.2	2033.6	1787.2
70°	1748.8	1782.7	2084.9	3461.1	3926.7	3826.9	3537.9	2787.9	2261.6	1892.7
72.5°	1248.1	1265.5	1503.6	3196.2	4074.0	4155.4	3923.7	3146.5	2378.0	1834.3
75°	877.0	874.0	1031.9	2573.9	3844.6	4115.5	3788.5	2952.5	2151.9	1457.2
77.5°	382.0	382.8	515.4	1563.1	3068.5	3515.0	3149.2	1849.4	1500.2	772.3
80°	99.1	102.1	189.1	622.4	1847.5	2320.0	1920.6	813.0	693.2	188.4
82.5°	35.0	37.3	87.0	195.5	681.5	1063.9	855.2	259.9	180.8	53.9
85°	10.2	12.1	46.7	59.9	140.9	300.6	207.6	50.5	44.5	27.9
87.5°	0.0	1.5	9.4	8.3	8.3	5.7	10.5	5.7	7.2	3.4
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°
662.3	0°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3
668.0	2.5°	665.7	663.1	657.4	651.4	645.7	640.5	638.9	633.3	630.7	631.0
673.2	5°	669.1	664.2	653.3	640.1	626.5	611.1	598.3	580.2	564.7	562.8
683.4	7.5°	678.1	670.2	652.5	626.9	593.0	550.4	510.9	471.7	449.4	437.4
698.5	10°	692.1	681.5	654.4	605.4	533.5	457.4	397.5	348.1	322.9	311.2
716.9	12.5°	708.6	697.0	657.4	568.9	456.6	356.8	292.0	261.8	256.6	255.8
739.5	15°	732.0	719.2	660.8	519.5	373.3	271.6	241.9	242.2	246.4	248.6
764.0	17.5°	758.0	745.2	655.9	459.2	291.2	232.1	231.3	234.7	240.7	243.0
786.6	20°	784.4	772.3	638.6	388.4	235.5	221.1	224.2	227.9	234.0	237.0
808.9	22.5°	811.5	800.9	611.1	313.1	212.5	213.2	217.0	220.8	227.5	230.9
830.7	25°	840.5	831.5	574.5	250.9	202.7	204.9	209.8	214.4	221.5	225.7
849.2	27.5°	869.9	863.1	533.1	209.5	193.6	196.3	201.9	208.0	215.1	220.0
865.4	30°	901.9	898.1	499.9	194.0	185.0	187.2	193.6	200.4	208.3	214.4
881.6	32.5°	934.7	933.9	483.7	205.3	177.1	178.6	184.2	191.0	200.8	208.3
895.1	35°	967.1	968.6	474.3	237.3	174.4	170.3	174.1	180.1	191.8	201.2
910.6	37.5°	1008.5	1012.3	473.9	272.0	180.8	162.0	164.6	168.8	179.0	189.9
934.7	40°	1070.3	1090.3	498.0	301.8	192.1	154.5	155.2	156.0	161.2	170.3
966.7	42.5°	1152.4	1210.8	585.1	322.1	196.7	147.7	145.0	140.9	140.1	145.0
1010.4	45°	1254.5	1356.6	738.0	333.4	192.1	140.1	133.0	122.1	117.9	121.3
1069.6	47.5°	1374.7	1516.4	919.2	336.1	184.6	130.7	117.9	103.6	100.2	101.3
1149.1	50°	1491.9	1636.2	1078.6	314.2	172.2	118.7	101.3	89.3	87.0	87.4
1242.9	52.5°	1595.5	1677.2	1123.8	262.6	155.6	104.0	87.0	78.7	77.2	77.2
1346.5	55°	1664.1	1632.8	1002.1	200.8	134.9	88.9	74.6	70.5	69.7	69.3
1462.1	57.5°	1678.4	1488.1	756.9	145.0	105.5	75.0	66.3	64.0	62.5	61.0
1580.8	60°	1627.1	1247.0	481.8	101.3	79.1	64.0	58.8	57.3	54.3	51.2
1692.3	62.5°	1516.4	941.8	266.7	70.5	63.7	54.6	52.0	50.1	44.5	39.6
1780.8	65°	1367.6	626.1	117.9	55.0	52.0	46.0	44.5	41.8	35.0	29.4
1814.4	67.5°	1218.0	360.5	53.1	44.1	41.8	37.7	36.5	34.7	29.8	24.5
1728.9	70°	1047.3	182.7	36.5	35.0	32.4	28.6	29.8	29.4	24.5	20.0
1410.1	72.5°	779.8	90.8	27.5	26.4	23.4	20.3	24.5	24.1	19.2	15.1
869.5	75°	441.5	44.8	20.0	18.5	13.9	15.1	19.6	18.5	13.2	9.8
366.9	77.5°	175.2	23.0	13.2	11.3	8.3	10.2	14.3	12.4	6.8	4.1
70.1	80°	40.3	11.3	6.8	4.9	3.8	6.0	7.5	4.5	1.9	0.4
18.8	82.5°	11.3	4.9	2.3	1.9	1.9	2.3	1.9	0.8	0.0	0.0
4.9	85°	3.8	2.3	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.5	87.5°	1.5	0.8	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

(END O

<u>180°</u>
662.3
630.7
561.7
436.6
308.9
255.4
248.3
242.6
237.0
230.9
225.7
220.4
215.1
209.1
202.7
191.8
173.3
147.7
121.3
101.0
87.4
76.9
68.6
60.3
50.1
38.1
28.3
23.7
19.2
14.3
9.0
3.8
0.0
0.0
0.0
0.0
0.0

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