

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: P938991

Luminaire Tested: **GALN-SB1B-850-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938991  
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-SB1B-850-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

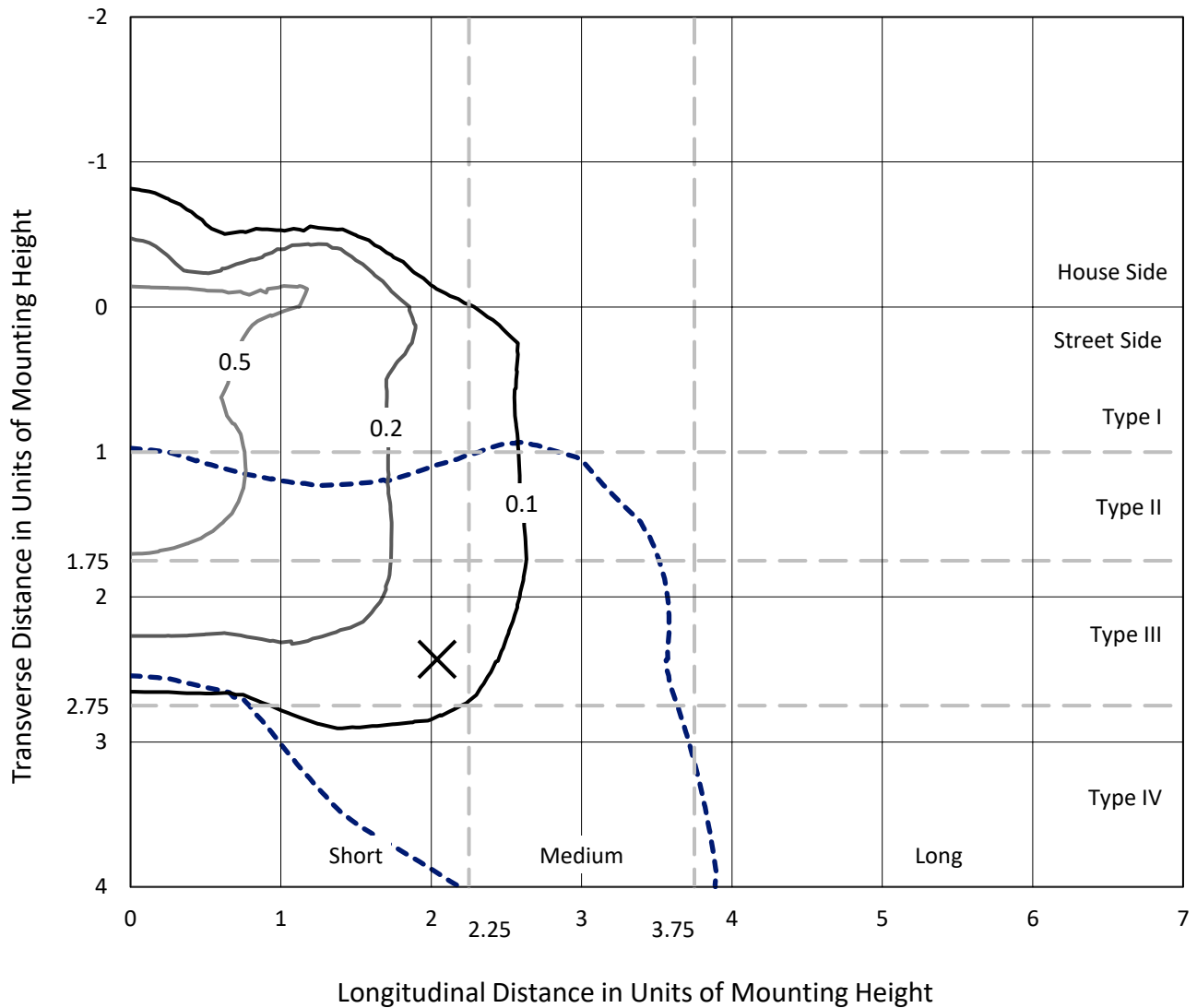
Lumens per Lamp: N/A  
Luminaire Lumens: 3761 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

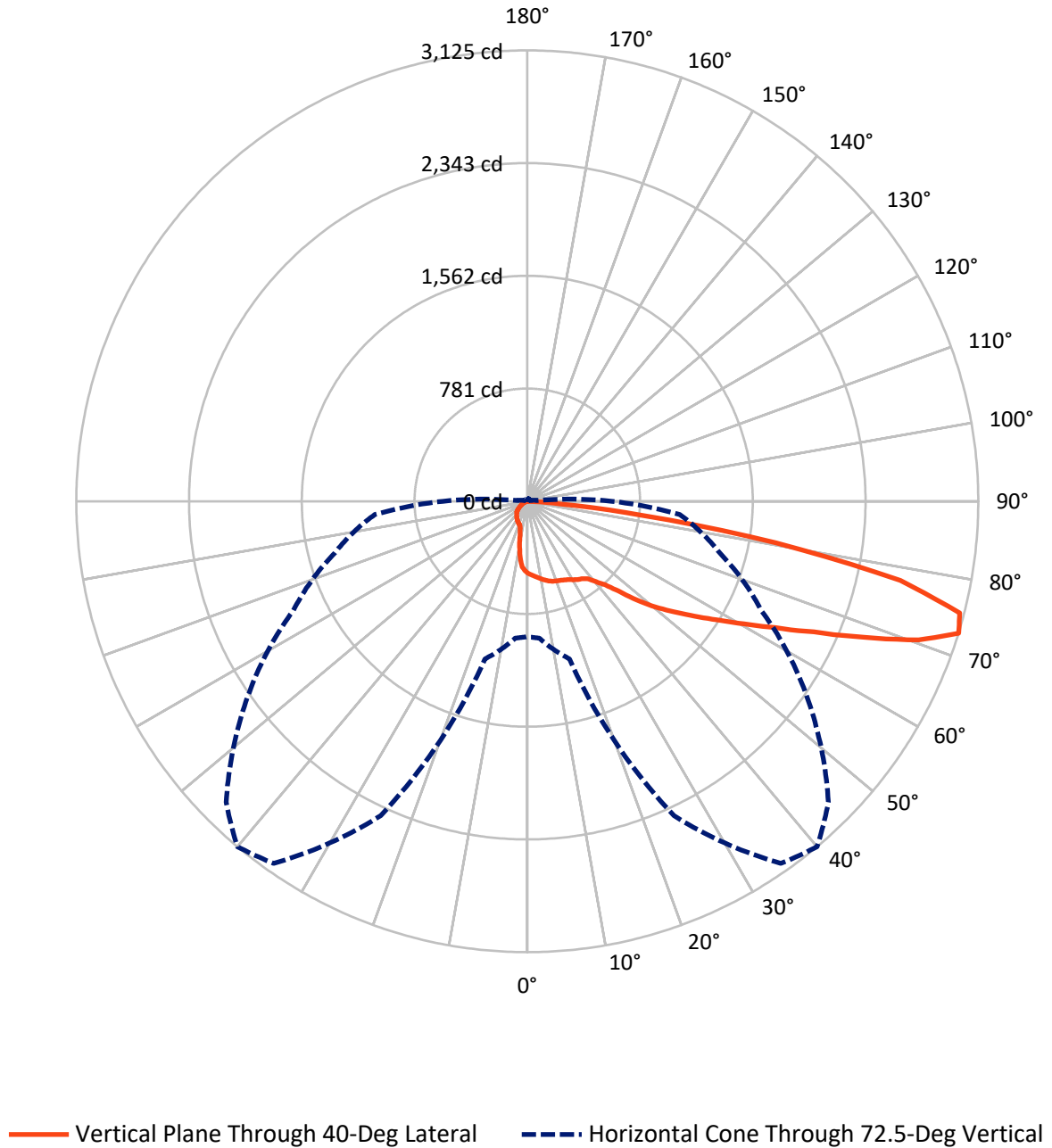
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	485.7	0.0	485.7
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	3275.3	0.0	3275.3
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	3761.0	0.0	3761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	1.2
10°-20°	123.5	3.3
20°-30°	199.8	5.3
30°-40°	295.0	7.8
40°-50°	496.6	13.2
50°-60°	771.0	20.5
60°-70°	964.8	25.7
70°-80°	789.9	21.0
80°-90°	74.9	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°	3761.0	100.0
0°-180°	3761.0	100.0

**Coefficient of Utilization**



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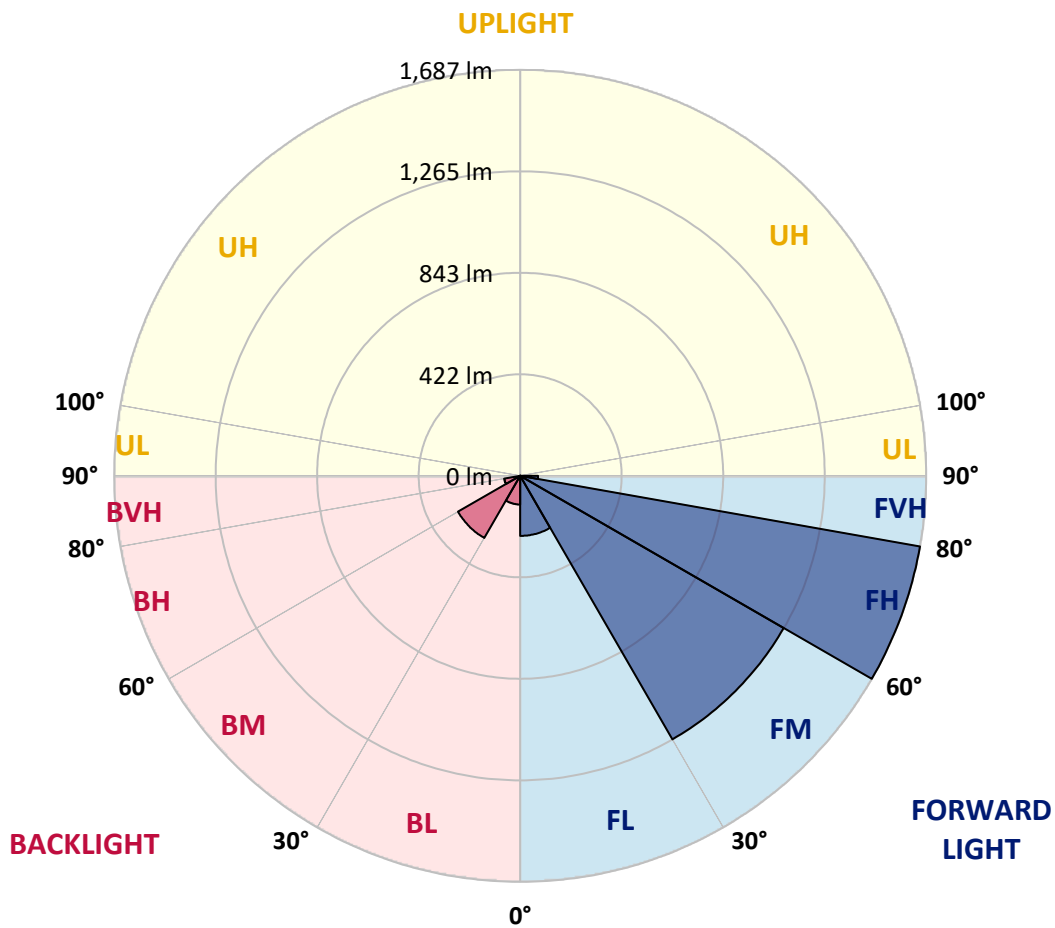
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.6	6.6			
FM (30°-60°)	1264.4	33.6			
FH (60°-80°)	1687.0	44.9			G1/1800
FVH (80°-90°)	74.3	2.0			G1/100
BL (0°-30°)	119.2	3.2	B1/500		
BM (30°-60°)	298.3	7.9	B1/1000		
BH (60°-80°)	67.7	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	513.0	515.0	513.8	511.6	511.0	509.9	508.5	507.9	505.9	504.2
5°	527.4	529.4	528.0	524.9	523.5	522.1	520.1	518.4	514.4	510.7
7.5°	543.3	545.0	543.3	538.8	536.5	534.8	532.0	529.4	524.9	519.5
10°	560.9	562.3	559.7	553.8	550.1	547.6	545.0	542.2	537.9	532.0
12.5°	577.3	579.0	575.0	568.0	563.7	561.2	558.3	556.1	551.8	546.1
15°	592.3	594.9	588.1	580.4	575.6	573.6	570.8	569.4	566.5	562.6
17.5°	603.6	605.3	598.3	589.2	583.8	582.4	580.4	581.3	580.7	578.7
20°	613.3	614.4	605.1	594.0	588.1	588.3	587.8	590.6	591.7	591.7
22.5°	625.2	625.5	613.6	599.7	592.6	594.6	595.4	598.5	600.8	603.1
25°	640.8	640.2	626.0	607.0	600.8	603.6	605.6	606.8	609.3	613.0
27.5°	664.0	662.3	644.2	618.9	611.6	614.1	617.8	617.2	616.1	618.9
30°	693.4	691.2	667.1	635.7	628.9	631.1	632.3	627.2	618.9	621.5
32.5°	740.2	736.2	702.8	654.4	643.9	646.4	645.0	634.5	622.3	624.9
35°	821.5	811.8	764.5	693.4	660.9	658.0	654.6	644.4	629.4	626.9
37.5°	994.3	977.3	896.5	769.6	699.4	681.0	670.5	660.3	637.1	626.9
40°	1189.2	1171.9	1078.7	897.1	763.4	732.3	707.3	679.0	645.0	630.6
42.5°	1392.6	1373.6	1277.8	1055.2	854.9	790.9	744.4	694.0	658.0	641.9
45°	1619.7	1595.9	1470.7	1220.0	987.8	888.3	804.2	724.9	680.7	662.0
47.5°	1859.4	1828.5	1663.1	1380.1	1130.8	1023.2	913.5	780.1	714.1	692.0
50°	2071.8	2041.2	1861.6	1547.5	1264.5	1151.5	1038.2	856.6	764.3	734.5
52.5°	2224.5	2201.3	2042.4	1720.3	1403.6	1271.9	1151.2	945.6	827.7	788.9
55°	2326.8	2305.5	2170.4	1884.0	1565.3	1404.4	1262.5	1042.1	904.2	854.1
57.5°	2388.8	2376.6	2263.0	2030.2	1725.7	1549.5	1390.0	1148.4	994.3	930.8
60°	2410.9	2401.0	2320.5	2169.6	1919.4	1723.7	1539.9	1268.2	1103.6	1018.1
62.5°	2352.0	2354.0	2361.9	2334.7	2123.7	1927.6	1719.4	1412.1	1224.9	1116.9
65°	2074.7	2091.1	2241.8	2517.7	2394.2	2183.2	1948.0	1587.7	1363.7	1229.4
67.5°	1717.7	1741.5	1929.1	2624.8	2682.6	2514.9	2266.4	1811.5	1529.1	1343.8
70°	1314.9	1340.4	1567.6	2602.4	2952.5	2877.4	2660.2	2096.2	1700.5	1423.1
72.5°	938.5	951.5	1130.5	2403.3	3063.3	3124.5	2950.2	2365.9	1788.0	1379.2
75°	659.5	657.2	775.9	1935.3	2890.8	3094.4	2848.6	2220.0	1618.0	1095.7
77.5°	287.2	287.8	387.5	1175.3	2307.2	2642.9	2367.8	1390.6	1128.0	580.7
80°	74.5	76.8	142.2	468.0	1389.2	1744.4	1444.1	611.3	521.2	141.6
82.5°	26.3	28.0	65.4	147.0	512.4	800.0	643.0	195.5	136.0	40.5
85°	7.6	9.1	35.1	45.0	105.9	226.0	156.1	38.0	33.4	21.0
87.5°	0.0	1.1	7.1	6.2	6.2	4.2	7.9	4.2	5.4	2.5
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°
498.0	0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
502.2	2.5°	500.5	498.6	494.3	489.8	485.5	481.6	480.4	476.2	474.2	474.5
506.2	5°	503.1	499.4	491.2	481.3	471.1	459.5	449.8	436.2	424.6	423.2
513.8	7.5°	509.9	503.9	490.6	471.4	445.9	413.9	384.1	354.7	337.9	328.9
525.2	10°	520.4	512.4	492.0	455.2	401.1	343.9	298.8	261.7	242.8	234.0
539.1	12.5°	532.8	524.0	494.3	427.7	343.3	268.3	219.5	196.9	192.9	192.3
556.1	15°	550.4	540.8	496.9	390.6	280.7	204.2	181.9	182.1	185.3	187.0
574.5	17.5°	569.9	560.3	493.2	345.3	219.0	174.5	173.9	176.5	181.0	182.7
591.5	20°	589.8	580.7	480.1	292.1	177.0	166.3	168.5	171.4	175.9	178.2
608.2	22.5°	610.2	602.2	459.5	235.4	159.8	160.3	163.2	166.0	171.1	173.6
624.6	25°	632.0	625.2	432.0	188.7	152.4	154.1	157.8	161.2	166.6	169.7
638.5	27.5°	654.1	649.0	400.8	157.5	145.6	147.6	151.8	156.4	161.7	165.4
650.7	30°	678.1	675.3	375.9	145.9	139.1	140.8	145.6	150.7	156.6	161.2
662.8	32.5°	702.8	702.2	363.7	154.4	133.1	134.3	138.5	143.6	151.0	156.6
673.0	35°	727.2	728.3	356.6	178.5	131.2	128.0	130.9	135.4	144.2	151.3
684.7	37.5°	758.3	761.1	356.4	204.5	136.0	121.8	123.8	126.9	134.6	142.8
702.8	40°	804.8	819.8	374.5	226.9	144.5	116.1	116.7	117.3	121.2	128.0
726.9	42.5°	866.5	910.4	439.9	242.2	147.9	111.0	109.1	105.9	105.4	109.1
759.7	45°	943.3	1020.1	554.9	250.7	144.5	105.4	100.0	91.8	88.7	91.2
804.2	47.5°	1033.6	1140.2	691.2	252.7	138.8	98.3	88.7	77.9	75.3	76.2
864.0	50°	1121.7	1230.2	811.0	236.2	129.5	89.2	76.2	67.1	65.4	65.7
934.5	52.5°	1199.6	1261.1	845.0	197.4	117.0	78.2	65.4	59.2	58.1	58.1
1012.4	55°	1251.2	1227.7	753.5	151.0	101.4	66.9	56.1	53.0	52.4	52.1
1099.4	57.5°	1262.0	1118.9	569.1	109.1	79.3	56.4	49.9	48.2	47.0	45.9
1188.6	60°	1223.4	937.6	362.3	76.2	59.5	48.2	44.2	43.1	40.8	38.5
1272.4	62.5°	1140.2	708.2	200.6	53.0	47.9	41.1	39.1	37.7	33.4	29.7
1339.0	65°	1028.3	470.8	88.7	41.4	39.1	34.6	33.4	31.4	26.3	22.1
1364.2	67.5°	915.8	271.1	39.9	33.1	31.4	28.3	27.5	26.1	22.4	18.4
1299.9	70°	787.5	137.4	27.5	26.3	24.4	21.5	22.4	22.1	18.4	15.0
1060.3	72.5°	586.4	68.3	20.7	19.8	17.6	15.3	18.4	18.1	14.4	11.3
653.8	75°	332.0	33.7	15.0	13.9	10.5	11.3	14.7	13.9	9.9	7.4
275.9	77.5°	131.7	17.3	9.9	8.5	6.2	7.6	10.8	9.3	5.1	3.1
52.7	80°	30.3	8.5	5.1	3.7	2.8	4.5	5.7	3.4	1.4	0.3
14.2	82.5°	8.5	3.7	1.7	1.4	1.4	1.7	1.4	0.6	0.0	0.0
3.7	85°	2.8	1.7	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.1	87.5°	1.1	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

(END O

<u>180°</u>
498.0
474.2
422.4
328.3
232.3
192.1
186.7
182.4
178.2
173.6
169.7
165.7
161.7
157.2
152.4
144.2
130.3
111.0
91.2
75.9
65.7
57.8
51.6
45.3
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