

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: P945416

Luminaire Tested: **GALN-SB1B-840-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945416  
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-SB1B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

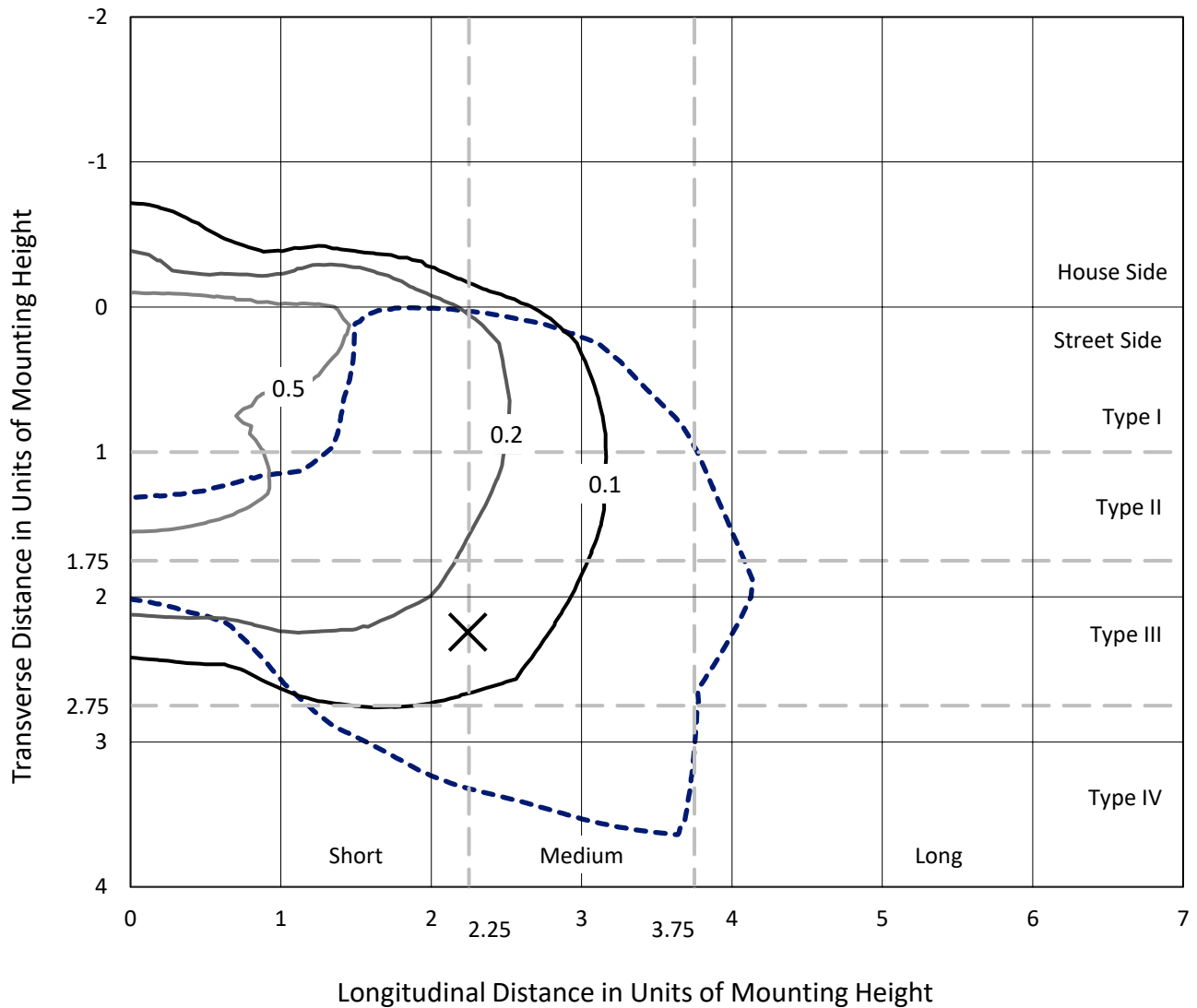
Lumens per Lamp: N/A  
Luminaire Lumens: 4150 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

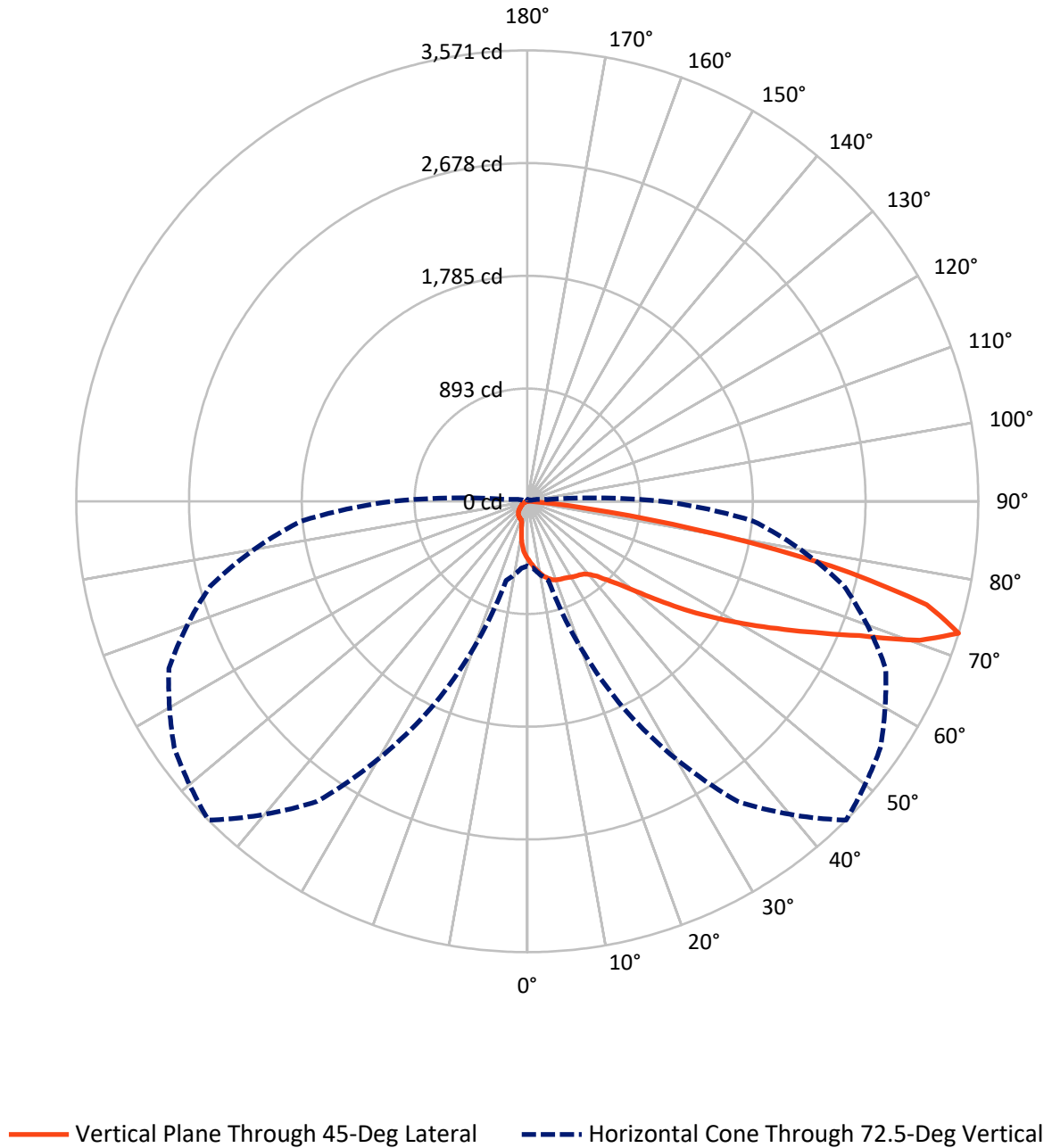
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	436.1	0.0	436.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3713.9	0.0	3713.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4150.0	0.0	4150.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.8	1.0
10°-20°	125.2	3.0
20°-30°	205.6	5.0
30°-40°	291.6	7.0
40°-50°	481.9	11.6
50°-60°	865.7	20.9
60°-70°	1202.1	29.0
70°-80°	872.0	21.0
80°-90°	63.0	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°	4150.0	100.0
0°-180°	4150.0	100.0

**Coefficient of Utilization**



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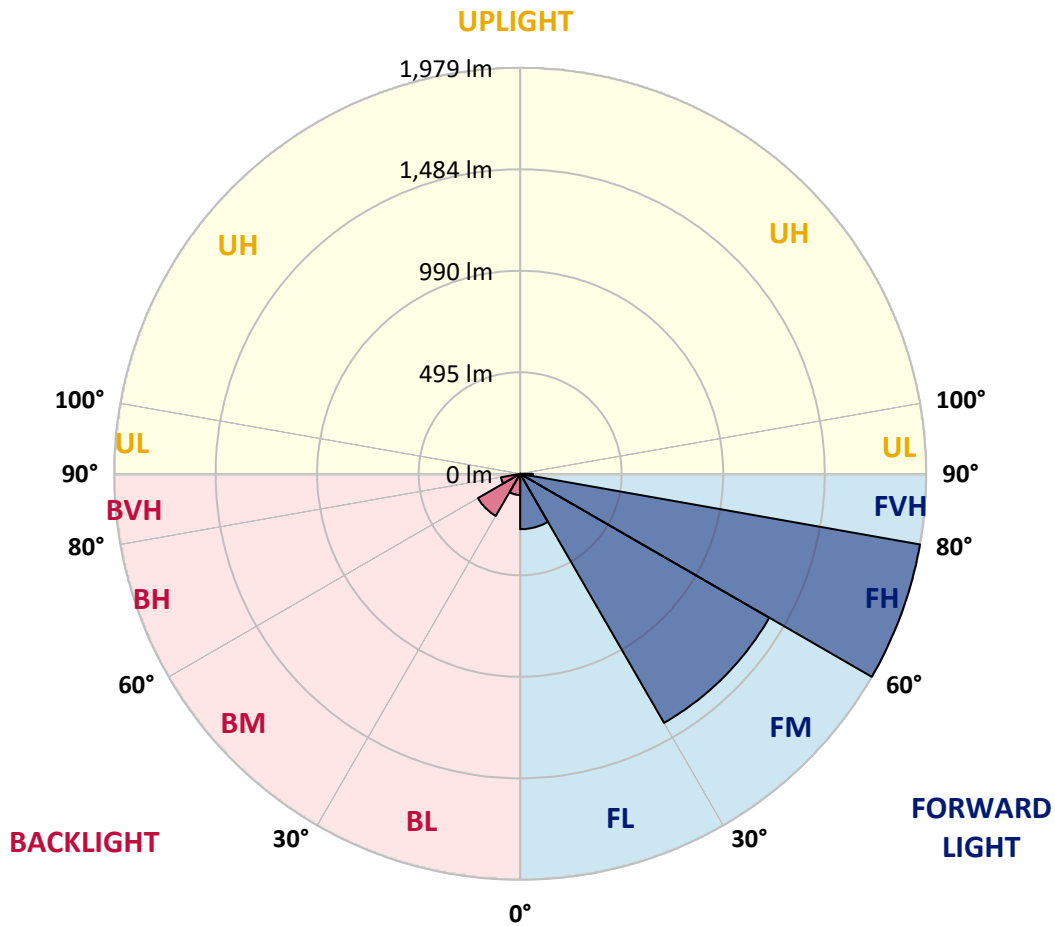
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.3	6.5			
FM (30°-60°)	1402.1	33.8			
FH (60°-80°)	1979.0	47.7			G2/5000
FVH (80°-90°)	62.5	1.5			G1/100
BL (0°-30°)	103.3	2.5	B0/110		
BM (30°-60°)	237.2	5.7	B1/1000		
BH (60°-80°)	95.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6
2.5°	496.6	497.4	496.8	493.4	487.8	484.7	483.0	477.3	473.6	467.1
5°	542.2	545.6	543.6	536.8	526.0	518.4	516.1	504.5	494.0	481.8
7.5°	590.6	592.3	588.6	579.8	565.4	552.4	550.4	534.2	517.5	498.8
10°	632.5	634.5	628.8	616.1	599.7	583.5	580.7	562.8	543.0	520.1
12.5°	667.7	669.6	662.3	647.0	628.8	612.1	609.3	590.6	568.8	543.3
15°	694.3	698.0	688.1	671.6	652.1	635.4	633.9	615.5	594.3	566.0
17.5°	709.9	713.5	704.2	684.4	667.7	653.5	651.8	636.5	616.7	589.5
20°	712.4	715.8	705.9	688.6	674.7	663.4	662.6	651.5	637.1	611.0
22.5°	704.8	709.0	699.9	686.1	676.4	670.5	669.4	663.1	654.9	632.8
25°	696.8	700.2	693.4	681.3	676.2	675.6	676.4	675.3	673.6	654.9
27.5°	696.3	699.9	692.3	680.7	677.9	683.8	684.7	690.0	691.5	675.0
30°	701.1	703.6	696.3	684.1	682.7	696.3	696.6	706.2	708.4	692.0
32.5°	711.6	714.4	707.0	689.2	687.2	706.2	707.0	719.8	723.5	710.1
35°	736.2	739.6	731.1	703.3	696.3	715.5	718.1	733.1	740.5	729.4
37.5°	797.7	787.8	776.1	732.0	716.9	730.3	734.5	752.1	765.1	752.4
40°	950.4	919.2	882.9	780.7	753.2	761.7	765.1	782.7	800.5	788.0
42.5°	1179.5	1142.7	1084.3	892.9	807.9	812.1	814.7	830.0	855.2	845.3
45°	1383.8	1370.4	1311.0	1084.3	910.1	889.2	892.3	900.2	937.3	933.6
47.5°	1540.7	1533.0	1487.1	1304.2	1082.9	983.5	992.3	996.0	1049.5	1062.5
50°	1661.4	1658.5	1617.4	1499.6	1308.7	1122.6	1125.7	1117.8	1197.9	1230.2
52.5°	1775.2	1784.9	1754.5	1681.2	1549.7	1304.7	1304.2	1266.8	1375.0	1423.7
55°	1878.1	1881.5	1884.6	1866.4	1792.2	1512.1	1506.7	1445.5	1580.3	1630.8
57.5°	1974.6	1976.1	2003.8	2040.9	2044.6	1734.7	1724.8	1651.4	1804.7	1840.7
60°	2039.5	2046.0	2104.7	2207.8	2252.8	1964.4	1959.1	1884.3	2033.0	2049.7
62.5°	1946.0	1985.7	2133.6	2338.1	2449.4	2219.1	2216.6	2146.3	2273.2	2259.6
65°	1575.2	1642.4	1902.4	2426.2	2642.3	2503.5	2507.2	2432.4	2519.9	2475.7
67.5°	1101.9	1172.7	1480.3	2433.3	2857.9	2837.5	2858.7	2741.4	2782.0	2682.8
70°	762.0	798.5	998.8	2280.9	3025.8	3297.5	3296.9	3121.0	3042.6	2777.1
72.5°	512.4	531.4	648.7	1809.5	2902.3	3570.8	3554.4	3411.1	3130.4	2597.3
75°	216.1	230.0	300.3	1016.9	2296.2	3266.9	3222.4	3014.5	2781.4	2045.2
77.5°	68.6	74.5	118.4	364.0	1264.8	2455.6	2408.6	1882.6	1864.2	1026.0
80°	32.6	38.0	66.6	146.2	497.7	1335.6	1329.1	854.0	801.9	277.0
82.5°	14.2	16.7	36.8	78.2	222.6	476.5	486.1	290.6	240.5	105.1
85°	4.5	5.9	17.0	36.0	94.0	118.4	117.0	69.1	96.9	57.2
87.5°	0.0	0.0	5.7	8.2	9.6	6.8	7.6	5.9	26.9	15.9
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°
454.6	0°	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6	454.6
460.3	2.5°	456.9	452.4	444.4	437.1	430.6	424.0	420.1	414.4	413.9	413.9
467.7	5°	460.0	452.7	438.5	423.5	406.2	389.8	373.3	357.5	352.4	348.7
479.6	7.5°	469.1	457.5	435.1	406.5	373.6	337.7	312.4	285.2	274.8	269.1
495.4	10°	482.1	466.3	432.3	382.1	328.9	279.9	243.9	214.4	203.1	198.3
512.7	12.5°	496.6	477.0	427.2	351.8	279.9	221.2	186.1	172.5	170.8	170.8
533.4	15°	513.8	490.0	418.4	316.1	228.6	175.1	162.6	163.2	164.9	166.0
553.5	17.5°	531.7	503.9	404.5	276.2	183.3	157.5	157.8	158.6	160.0	161.2
575.3	20°	551.0	517.8	386.1	233.7	157.2	152.4	153.2	154.1	155.2	155.8
595.7	22.5°	571.6	530.8	364.3	192.1	148.4	148.1	148.4	149.3	150.7	150.7
619.5	25°	593.7	545.3	339.4	161.7	143.9	143.9	144.5	145.0	146.2	146.2
642.4	27.5°	616.4	558.6	313.0	145.9	139.9	139.6	139.6	140.5	141.1	141.3
665.1	30°	641.3	574.2	286.7	142.5	136.8	135.4	134.6	135.1	135.7	136.0
688.9	32.5°	666.8	589.2	263.2	143.9	133.7	131.2	128.3	127.8	127.8	128.9
713.5	35°	695.1	605.6	245.0	148.7	132.0	124.9	120.4	117.8	118.1	119.8
743.0	37.5°	729.1	625.5	231.7	153.0	130.9	117.8	110.5	107.4	105.4	107.4
783.5	40°	773.6	654.6	222.1	156.4	129.5	109.6	99.7	94.6	90.9	92.1
846.4	42.5°	839.0	700.5	218.4	156.6	126.3	100.0	88.7	81.9	76.5	76.8
941.0	45°	930.8	773.0	237.4	153.0	119.5	89.5	77.0	68.0	64.6	63.7
1082.4	47.5°	1056.6	878.7	281.3	145.3	109.6	79.3	65.7	58.1	55.5	54.1
1267.9	50°	1225.1	1014.4	330.0	136.8	99.7	69.7	56.4	51.6	49.9	48.4
1488.0	52.5°	1420.6	1152.0	369.9	128.3	89.8	61.2	50.4	47.6	46.2	45.0
1700.4	55°	1599.9	1246.9	367.7	119.3	80.2	54.4	46.2	44.5	42.8	41.6
1883.4	57.5°	1711.5	1260.2	303.1	109.3	69.1	49.0	42.2	41.1	39.1	37.7
2041.8	60°	1762.8	1184.3	212.4	96.3	58.1	43.9	38.0	37.4	34.8	32.9
2191.6	62.5°	1772.1	1043.3	141.6	80.2	48.4	39.1	33.7	32.9	29.5	26.1
2313.4	65°	1734.2	841.6	98.0	62.6	41.4	34.0	28.9	27.2	23.5	20.1
2342.3	67.5°	1614.0	590.9	68.3	45.0	35.1	26.9	22.9	22.4	19.5	16.7
2195.0	70°	1394.0	336.8	45.6	33.7	27.8	18.4	18.1	18.7	15.9	13.6
1793.4	72.5°	1068.8	154.1	28.3	24.6	19.0	12.5	14.4	14.7	12.2	10.2
1118.9	75°	629.1	66.0	17.8	15.9	9.6	8.2	10.5	10.8	8.2	6.5
409.0	77.5°	214.1	24.9	11.3	9.3	4.8	4.5	6.8	6.8	4.5	2.5
82.1	80°	48.7	9.3	5.7	3.7	2.3	2.0	2.3	2.0	1.1	0.3
25.2	82.5°	13.9	3.7	2.3	1.4	0.8	0.8	0.3	0.0	0.0	0.0
8.8	85°	4.0	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	1.7	0.3	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>
454.6
415.3
350.4
270.0
198.3
170.8
166.0
161.2
156.1
151.3
146.4
141.6
136.5
129.7
120.7
106.8
91.5
75.6
62.6
53.3
48.2
44.8
41.1
37.4
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