

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: P945374

Luminaire Tested: **GALN-SB1B-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945374  
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-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

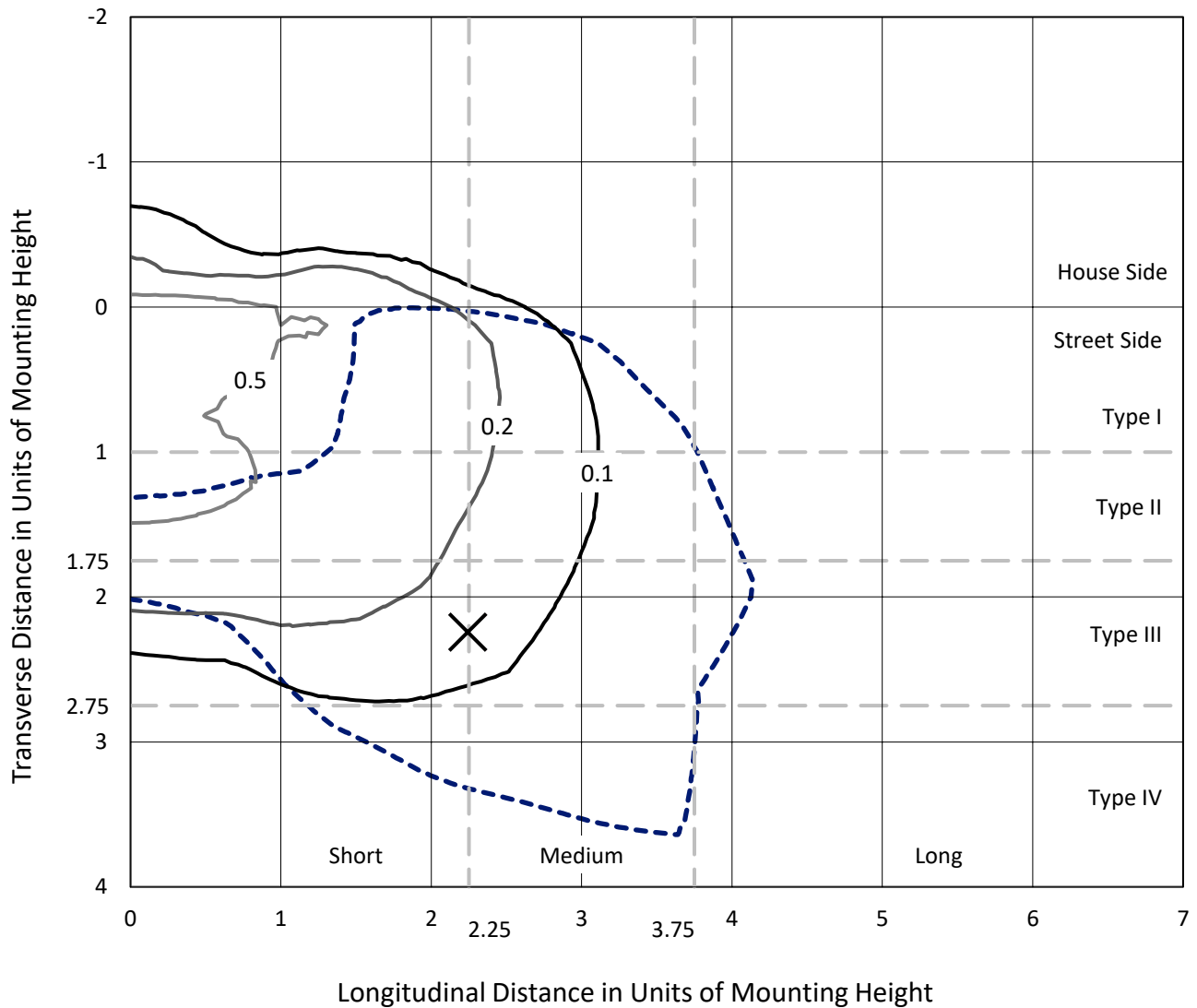
Lumens per Lamp: N/A  
Luminaire Lumens: 3899 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

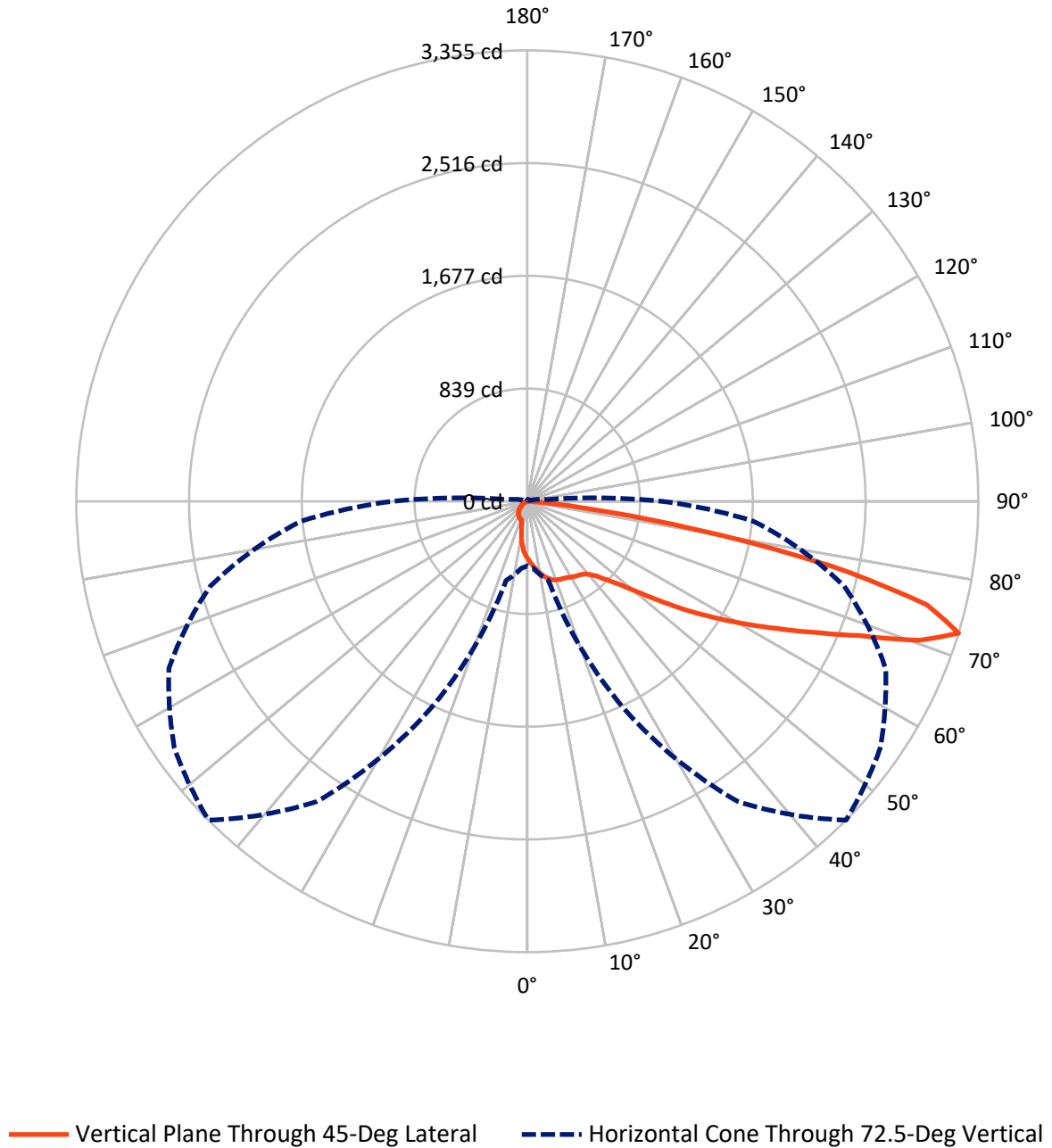
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	409.7	0.0	409.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3489.3	0.0	3489.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3899.0	0.0	3899.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	117.6	3.0
20°-30°	193.2	5.0
30°-40°	273.9	7.0
40°-50°	452.8	11.6
50°-60°	813.4	20.9
60°-70°	1129.4	29.0
70°-80°	819.2	21.0
80°-90°	59.2	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°	3899.0	100.0
0°-180°	3899.0	100.0

**Coefficient of Utilization**



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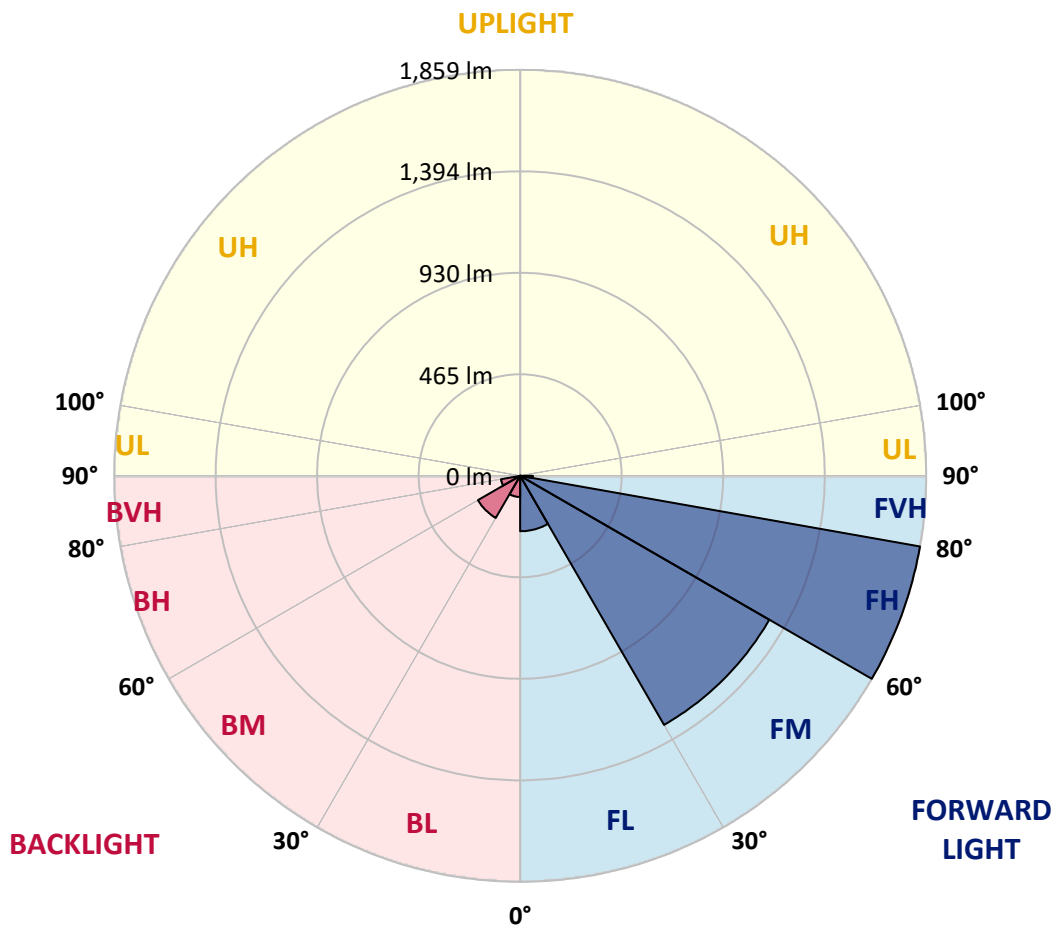
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.0	6.5			
FM (30°-60°)	1317.3	33.8			
FH (60°-80°)	1859.3	47.7			G2/5000
FVH (80°-90°)	58.7	1.5			G1/100
BL (0°-30°)	97.0	2.5	B0/110		
BM (30°-60°)	222.8	5.7	B1/1000		
BH (60°-80°)	89.3	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°	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1
2.5°	466.5	467.3	466.8	463.6	458.3	455.4	453.8	448.4	445.0	438.9
5°	509.4	512.6	510.7	504.3	494.2	487.0	484.9	474.0	464.1	452.7
7.5°	554.9	556.5	553.0	544.8	531.2	519.0	517.1	501.9	486.2	468.7
10°	594.3	596.1	590.8	578.8	563.4	548.2	545.6	528.8	510.2	488.6
12.5°	627.3	629.1	622.2	607.8	590.8	575.1	572.5	554.9	534.4	510.4
15°	652.3	655.8	646.4	631.0	612.6	596.9	595.6	578.3	558.3	531.7
17.5°	666.9	670.4	661.6	643.0	627.3	614.0	612.4	598.0	579.4	553.8
20°	669.3	672.5	663.2	647.0	633.9	623.3	622.5	612.1	598.5	574.0
22.5°	662.1	666.1	657.6	644.6	635.5	629.9	628.9	623.0	615.3	594.5
25°	654.7	657.9	651.5	640.1	635.3	634.7	635.5	634.5	632.9	615.3
27.5°	654.2	657.6	650.4	639.5	636.9	642.4	643.2	648.3	649.6	634.2
30°	658.7	661.1	654.2	642.7	641.4	654.2	654.4	663.5	665.6	650.2
32.5°	668.5	671.2	664.3	647.5	645.6	663.5	664.3	676.2	679.7	667.2
35°	691.7	694.9	686.9	660.8	654.2	672.3	674.6	688.8	695.7	685.3
37.5°	749.4	740.1	729.2	687.7	673.6	686.1	690.1	706.6	718.8	706.8
40°	892.9	863.6	829.5	733.5	707.6	715.6	718.8	735.3	752.1	740.4
42.5°	1108.2	1073.6	1018.8	838.9	759.0	763.0	765.4	779.8	803.5	794.1
45°	1300.1	1287.6	1231.7	1018.8	855.1	835.4	838.3	845.8	880.6	877.2
47.5°	1447.5	1440.3	1397.2	1225.3	1017.4	924.0	932.3	935.7	986.0	998.3
50°	1560.9	1558.2	1519.6	1408.9	1229.5	1054.7	1057.6	1050.2	1125.5	1155.8
52.5°	1667.9	1676.9	1648.4	1579.5	1456.0	1225.8	1225.3	1190.1	1291.8	1337.6
55°	1764.5	1767.7	1770.6	1753.6	1683.8	1420.6	1415.6	1358.1	1484.8	1532.1
57.5°	1855.2	1856.5	1882.6	1917.5	1920.9	1629.8	1620.5	1551.6	1695.5	1729.3
60°	1916.2	1922.3	1977.4	2074.2	2116.6	1845.6	1840.6	1770.3	1910.0	1925.7
62.5°	1828.3	1865.6	2004.5	2196.7	2301.3	2084.9	2082.5	2016.5	2135.7	2122.9
65°	1480.0	1543.0	1787.4	2279.4	2482.5	2352.1	2355.5	2285.3	2367.5	2326.0
67.5°	1035.3	1101.8	1390.8	2286.1	2685.0	2665.9	2685.8	2575.6	2613.7	2520.5
70°	715.9	750.2	938.4	2142.9	2842.8	3098.1	3097.5	2932.3	2858.5	2609.2
72.5°	481.4	499.3	609.4	1700.1	2726.8	3354.9	3339.4	3204.8	2941.0	2440.2
75°	203.1	216.1	282.1	955.4	2157.3	3069.3	3027.5	2832.2	2613.2	1921.5
77.5°	64.4	70.0	111.2	342.0	1188.3	2307.1	2262.9	1768.7	1751.4	963.9
80°	30.6	35.7	62.5	137.3	467.6	1254.8	1248.7	802.4	753.4	260.3
82.5°	13.3	15.7	34.6	73.5	209.2	447.6	456.7	273.1	225.9	98.7
85°	4.3	5.6	16.0	33.8	88.4	111.2	109.9	64.9	91.0	53.8
87.5°	0.0	0.0	5.3	7.7	9.0	6.4	7.2	5.6	25.3	14.9
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°
427.1	0°	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1	427.1
432.5	2.5°	429.3	425.0	417.6	410.6	404.5	398.4	394.7	389.4	388.8	388.8
439.4	5°	432.2	425.3	412.0	397.9	381.6	366.2	350.8	335.9	331.1	327.6
450.6	7.5°	440.7	429.8	408.8	381.9	351.0	317.2	293.5	268.0	258.1	252.8
465.5	10°	453.0	438.1	406.1	359.0	309.0	262.9	229.1	201.5	190.8	186.3
481.7	12.5°	466.5	448.2	401.3	330.5	262.9	207.9	174.8	162.1	160.5	160.5
501.1	15°	482.8	460.4	393.1	297.0	214.8	164.5	152.8	153.3	154.9	156.0
520.0	17.5°	499.5	473.5	380.0	259.5	172.2	148.0	148.2	149.0	150.4	151.4
540.5	20°	517.6	486.5	362.7	219.6	147.7	143.2	144.0	144.8	145.8	146.4
559.7	22.5°	537.1	498.7	342.2	180.4	139.5	139.2	139.5	140.3	141.6	141.6
582.0	25°	557.8	512.3	318.8	152.0	135.2	135.2	135.7	136.3	137.3	137.3
603.6	27.5°	579.1	524.8	294.1	137.1	131.5	131.2	131.2	132.0	132.5	132.8
624.9	30°	602.5	539.5	269.3	133.9	128.5	127.2	126.4	126.9	127.5	127.7
647.2	32.5°	626.5	553.6	247.2	135.2	125.6	123.2	120.6	120.0	120.0	121.1
670.4	35°	653.1	569.0	230.2	139.7	124.0	117.4	113.1	110.7	111.0	112.6
698.1	37.5°	685.0	587.6	217.7	143.7	123.0	110.7	103.8	100.9	99.0	100.9
736.1	40°	726.8	615.0	208.6	146.9	121.6	103.0	93.7	88.9	85.4	86.5
795.2	42.5°	788.3	658.1	205.2	147.2	118.7	93.9	83.3	76.9	71.9	72.1
884.1	45°	874.5	726.3	223.0	143.7	112.3	84.1	72.4	63.9	60.7	59.9
1016.9	47.5°	992.7	825.5	264.3	136.5	103.0	74.5	61.7	54.6	52.2	50.8
1191.2	50°	1151.0	953.0	310.0	128.5	93.7	65.5	53.0	48.4	46.8	45.5
1398.0	52.5°	1334.7	1082.4	347.6	120.6	84.4	57.5	47.4	44.7	43.4	42.3
1597.6	55°	1503.1	1171.5	345.4	112.0	75.3	51.1	43.4	41.8	40.2	39.1
1769.5	57.5°	1608.0	1184.0	284.8	102.7	64.9	46.0	39.7	38.6	36.7	35.4
1918.3	60°	1656.1	1112.7	199.6	90.5	54.6	41.3	35.7	35.1	32.7	30.9
2059.1	62.5°	1664.9	980.2	133.1	75.3	45.5	36.7	31.7	30.9	27.7	24.5
2173.5	65°	1629.3	790.7	92.1	58.8	38.9	31.9	27.1	25.5	22.1	18.9
2200.7	67.5°	1516.4	555.2	64.1	42.3	33.0	25.3	21.6	21.0	18.4	15.7
2062.3	70°	1309.6	316.4	42.8	31.7	26.1	17.3	17.0	17.6	14.9	12.8
1684.9	72.5°	1004.1	144.8	26.6	23.2	17.8	11.7	13.6	13.8	11.4	9.6
1051.2	75°	591.1	62.0	16.8	14.9	9.0	7.7	9.8	10.1	7.7	6.1
384.3	77.5°	201.2	23.4	10.6	8.8	4.5	4.3	6.4	6.4	4.3	2.4
77.2	80°	45.8	8.8	5.3	3.5	2.1	1.9	2.1	1.9	1.1	0.3
23.7	82.5°	13.0	3.5	2.1	1.3	0.8	0.8	0.3	0.0	0.0	0.0
8.3	85°	3.7	1.6	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2.9	87.5°	1.6	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>
427.1
390.2
329.2
253.6
186.3
160.5
156.0
151.4
146.6
142.1
137.6
133.1
128.3
121.9
113.4
100.3
86.0
71.1
58.8
50.0
45.2
42.0
38.6
35.1
30.3
22.9
17.8
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