

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: P938998

Luminaire Tested: **GALN-SB1B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

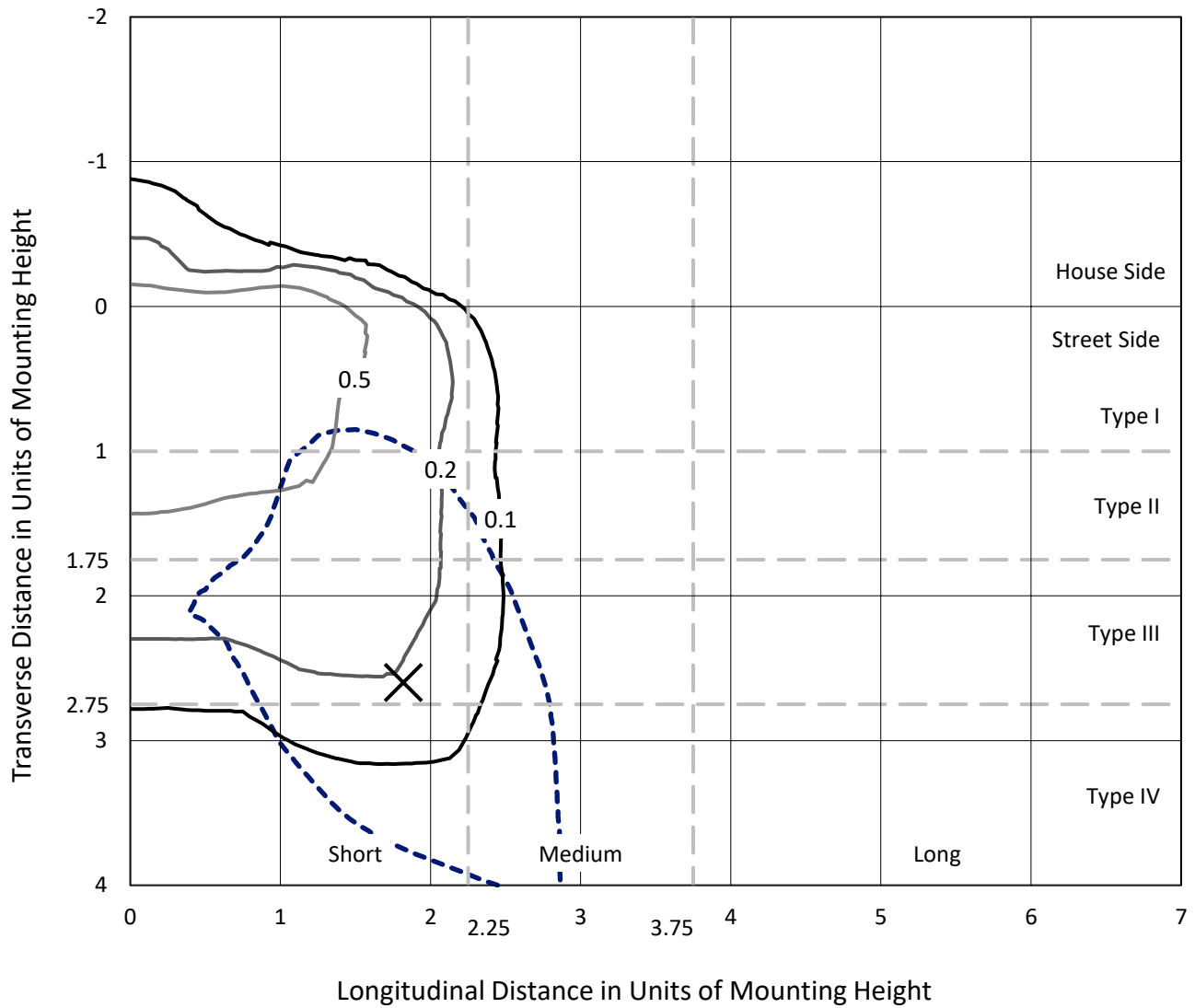
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

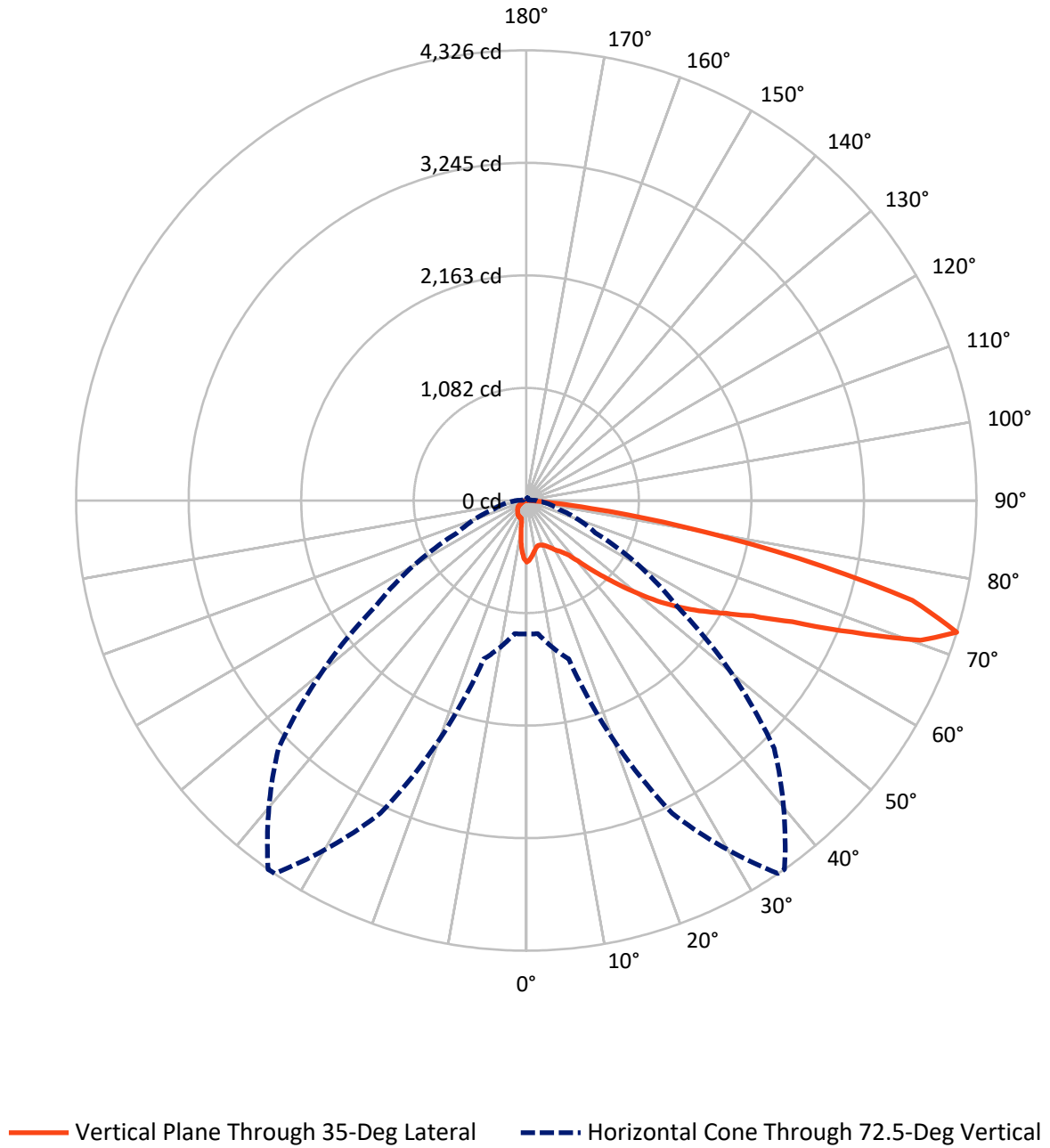
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	459.1	0.0	459.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3619.9	0.0	3619.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	4079.0	0.0	4079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.2
10°-20°	113.6	2.8
20°-30°	184.6	4.5
30°-40°	308.0	7.6
40°-50°	582.8	14.3
50°-60°	926.1	22.7
60°-70°	1145.6	28.1
70°-80°	712.1	17.5
80°-90°	57.6	1.4
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°	4079.0	100.0
0°-180°	4079.0	100.0

Coefficient of Utilization



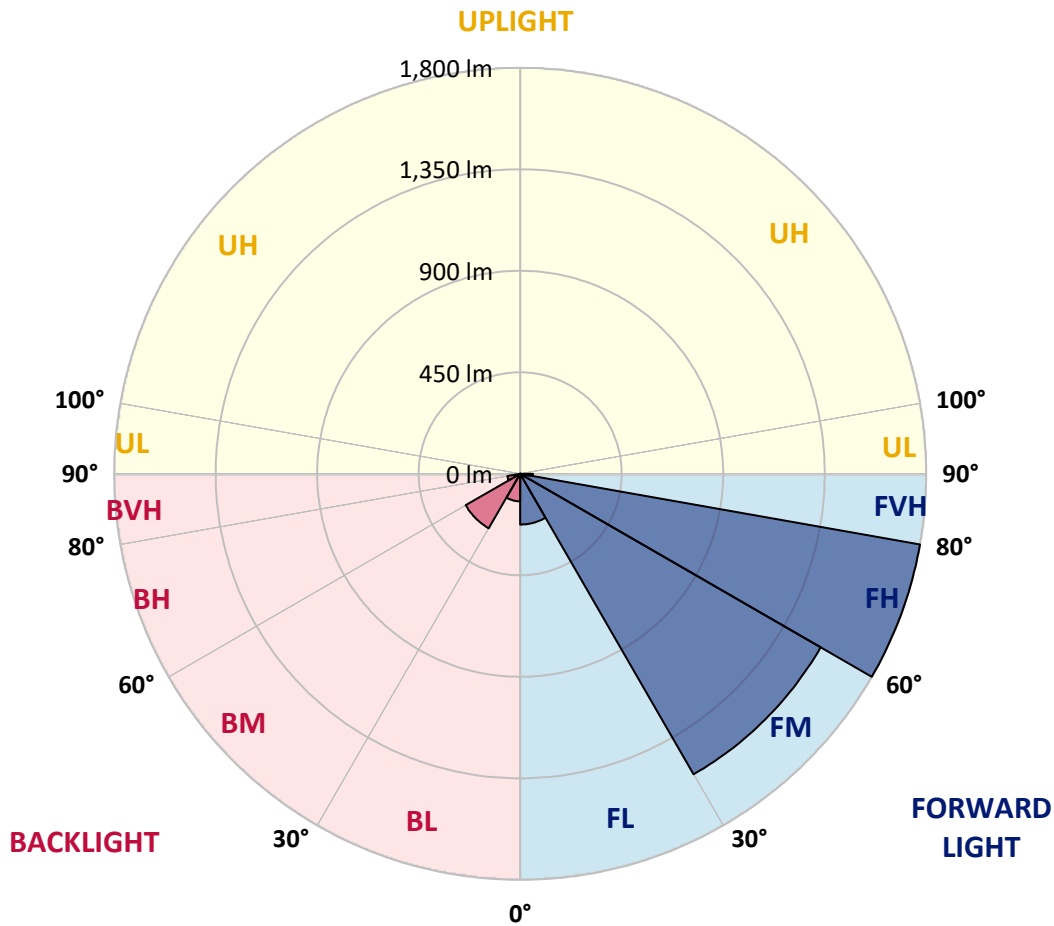
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.9	5.5			
FM (30°-60°)	1538.2	37.7			
FH (60°-80°)	1800.1	44.1			G2/5000
FVH (80°-90°)	56.8	1.4			G1/100
BL (0°-30°)	122.0	3.0	B1/500		
BM (30°-60°)	278.7	6.8	B1/1000		
BH (60°-80°)	57.6	1.4	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°	34°	35°	45°	55°	65°	75°
0°	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2
2.5°	564.9	569.7	570.6	572.1	572.1	573.8	576.8	581.0	587.9	591.5
5°	520.6	524.2	528.7	532.3	539.2	540.1	551.7	563.1	578.9	590.9
7.5°	476.1	480.3	486.3	494.9	503.9	506.6	524.2	543.4	568.5	590.9
10°	444.7	445.0	450.4	459.1	473.4	476.7	498.2	525.4	556.8	587.3
12.5°	427.1	429.2	431.6	438.2	451.9	454.0	477.0	509.0	545.2	585.2
15°	427.1	428.6	430.1	433.4	444.4	446.2	466.6	498.5	539.2	586.1
17.5°	431.6	434.0	432.8	436.7	448.3	449.5	467.4	495.5	538.9	591.8
20°	442.3	444.1	441.7	444.1	455.8	458.2	476.7	501.2	544.0	601.6
22.5°	459.4	460.3	454.6	456.4	468.3	471.3	492.9	517.4	556.2	617.5
25°	480.9	482.7	474.0	476.1	487.5	491.1	515.9	541.6	575.6	639.3
27.5°	505.7	506.6	499.1	498.8	513.5	518.6	543.7	571.5	601.6	666.8
30°	534.1	536.8	529.6	528.4	546.9	551.1	575.9	608.2	639.9	708.0
32.5°	556.5	558.6	554.4	557.4	576.2	579.5	615.1	660.2	700.0	766.6
35°	588.8	590.0	580.4	585.8	607.3	615.7	668.6	733.2	775.6	840.2
37.5°	705.7	705.7	665.0	638.4	659.0	666.5	741.8	824.9	868.8	938.8
40°	867.3	864.7	805.2	750.8	748.1	762.7	846.1	940.6	989.3	1057.1
42.5°	1039.8	1035.6	954.6	900.8	891.9	896.9	966.6	1083.1	1132.8	1201.5
45°	1192.8	1191.6	1117.5	1045.2	1029.0	1045.2	1116.9	1249.9	1285.5	1357.8
47.5°	1321.0	1321.0	1267.0	1219.7	1211.4	1220.9	1320.5	1434.9	1431.6	1524.3
50°	1468.7	1467.5	1416.1	1395.8	1404.4	1417.9	1554.8	1629.8	1582.9	1687.8
52.5°	1572.1	1579.3	1561.6	1558.4	1602.6	1625.9	1792.7	1820.5	1718.3	1842.9
55°	1654.0	1662.4	1682.7	1705.7	1790.9	1821.4	2023.1	2001.3	1831.5	1977.4
57.5°	1770.0	1758.0	1789.4	1834.8	1972.6	2009.4	2246.4	2172.0	1922.7	2086.5
60°	1910.7	1912.5	1917.9	1975.3	2154.0	2201.2	2466.4	2333.4	1981.3	2153.4
62.5°	2079.9	2082.6	2093.7	2181.8	2397.6	2442.1	2700.7	2465.5	2008.2	2134.6
65°	2068.2	2079.6	2203.0	2504.6	2767.9	2811.9	2974.2	2558.1	1967.5	1962.4
67.5°	1884.1	1902.7	2109.2	2890.2	3326.2	3375.2	3304.7	2576.3	1792.1	1526.1
70°	1642.6	1649.2	1897.6	3236.9	3972.7	4022.3	3600.6	2375.8	1359.9	851.2
72.5°	1282.8	1284.3	1575.7	3317.3	4323.6	4326.3	3368.4	1763.7	731.4	327.0
75°	916.4	907.4	1055.3	2690.2	3803.8	3834.3	2525.2	827.3	279.5	154.5
77.5°	491.4	501.2	597.2	1595.4	2627.7	2679.8	1377.8	238.5	142.3	105.2
80°	151.8	160.2	244.8	730.5	1488.4	1519.8	510.8	106.1	99.2	75.0
82.5°	47.8	49.6	114.2	306.9	617.8	632.1	147.9	60.1	67.8	49.6
85°	13.7	14.0	50.8	114.5	152.7	155.7	41.5	23.3	38.9	30.8
87.5°	1.5	4.8	19.1	19.1	13.4	13.2	4.5	5.1	11.1	3.9
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°
591.2	0°	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2
593.9	2.5°	592.4	592.7	588.8	582.2	575.0	569.1	561.6	555.6	551.4	550.2
599.3	5°	596.6	594.5	583.4	563.4	539.5	518.9	495.8	477.6	465.7	460.6
604.9	7.5°	602.8	596.9	572.7	533.2	487.5	446.8	405.6	373.6	353.3	343.1
610.3	10°	608.2	596.3	554.7	489.6	419.6	358.1	302.5	263.9	242.4	232.2
616.6	12.5°	613.3	596.0	531.4	437.9	343.1	267.8	216.1	197.0	191.0	188.9
626.8	15°	622.9	596.9	502.1	378.7	266.9	202.3	183.5	183.2	184.4	183.8
642.3	17.5°	636.0	597.8	468.9	315.9	205.9	178.4	177.5	180.2	182.0	181.1
661.7	20°	653.1	601.3	433.7	253.7	176.9	172.5	174.5	176.9	178.4	176.9
687.7	22.5°	677.0	607.6	395.1	203.8	167.7	168.9	170.7	173.4	174.8	172.8
720.9	25°	706.3	617.5	357.2	177.2	163.2	164.7	167.4	170.4	172.2	170.1
762.7	27.5°	744.2	633.3	322.2	171.3	158.7	159.6	163.5	168.0	170.4	167.7
822.2	30°	799.2	659.3	292.0	173.9	156.0	153.9	159.3	165.6	168.3	165.9
903.2	32.5°	872.1	696.1	273.5	178.1	154.8	147.3	152.4	160.5	165.0	163.5
1009.0	35°	967.8	752.0	266.3	182.9	153.9	140.5	144.1	152.7	160.5	162.0
1142.3	37.5°	1083.7	829.7	268.4	185.0	151.2	134.8	136.6	144.1	154.2	159.0
1292.4	40°	1215.5	920.3	280.3	182.9	148.2	130.0	130.3	136.0	145.0	152.1
1453.8	42.5°	1351.5	1026.1	302.5	175.1	145.6	125.8	124.9	128.8	134.8	139.9
1614.8	45°	1480.9	1134.8	324.3	164.4	142.3	121.6	119.6	121.0	122.2	124.3
1771.8	47.5°	1593.9	1211.4	318.0	154.5	137.8	116.9	113.3	112.7	109.1	108.8
1911.9	50°	1671.9	1228.1	282.4	144.7	131.2	111.5	105.8	102.2	95.9	93.0
2016.8	52.5°	1696.7	1162.0	230.7	134.8	120.4	104.3	96.2	90.6	82.8	80.1
2077.2	55°	1663.9	1032.6	184.4	122.8	105.5	94.7	85.8	78.3	72.0	68.7
2083.8	57.5°	1583.5	867.9	145.9	108.8	89.7	84.0	75.0	67.5	62.2	58.9
2010.9	60°	1450.2	689.2	115.4	92.1	76.5	72.3	63.1	58.3	53.5	49.6
1822.6	62.5°	1247.8	492.0	90.6	72.9	64.0	59.2	53.8	50.2	44.5	39.2
1483.9	65°	973.7	301.0	69.9	53.5	51.4	49.0	45.7	42.4	35.6	30.2
968.1	67.5°	614.2	142.6	49.9	40.3	40.6	39.5	38.0	35.3	30.2	25.4
433.7	70°	270.5	69.0	32.9	30.8	30.2	30.2	31.4	30.5	25.7	21.2
150.6	72.5°	92.1	37.1	24.5	23.3	21.8	21.5	26.3	25.4	20.6	16.4
75.0	75°	48.1	24.8	17.9	16.7	13.2	15.8	20.9	19.7	14.6	10.8
49.6	77.5°	31.4	17.6	12.3	10.8	7.5	10.5	15.5	13.7	8.7	5.4
32.6	80°	19.7	11.7	7.2	5.1	3.6	5.7	8.4	6.0	3.3	1.2
19.1	82.5°	10.5	6.0	2.7	1.8	1.5	1.8	2.1	1.5	0.6	0.0
9.9	85°	4.2	2.1	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.8	87.5°	1.5	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

180°
591.2
552.3
462.4
344.6
232.5
188.3
183.5
180.8
176.6
172.5
169.8
167.7
165.6
163.5
162.0
160.2
154.5
142.0
125.5
108.5
93.3
79.8
68.7
58.3
48.7
38.3
29.3
24.8
20.3
15.5
9.9
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