

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: P949824

Luminaire Tested: **GALN-SB4B-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13070 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

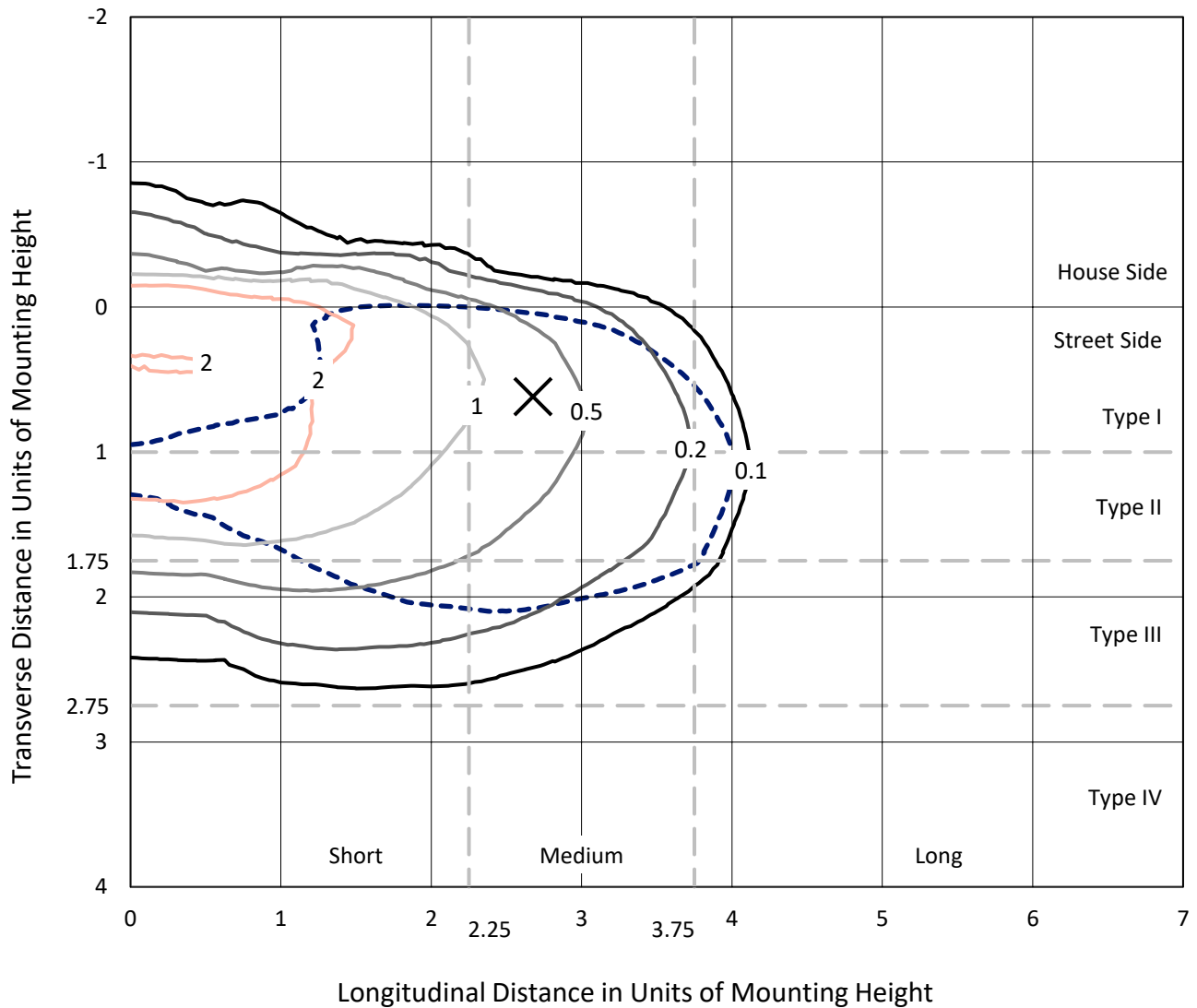
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949824
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Iso-Footcandle Lines of Horizontal Illumination

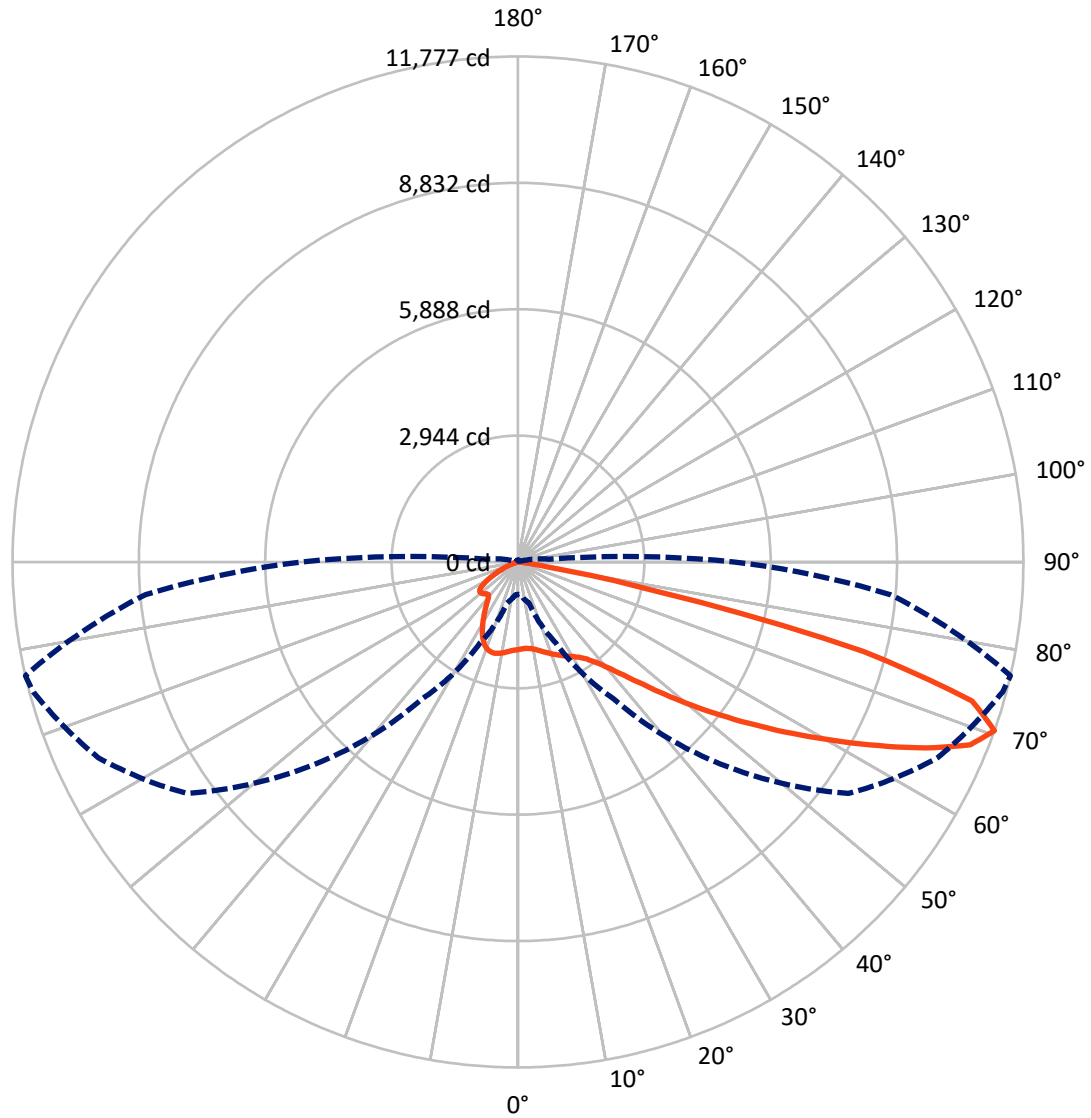
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P949824
CATALOG NUMBER: GALN-SB4B-950-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P949824

CATALOG NUMBER: GALN-SB4B-950-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.8	0.0	1377.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11692.2	0.0	11692.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	13070.0	0.0	13070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	1.3
10°-20°	417.1	3.2
20°-30°	645.1	4.9
30°-40°	1170.6	9.0
40°-50°	2209.7	16.9
50°-60°	3192.8	24.4
60°-70°	3398.7	26.0
70°-80°	1801.1	13.8
80°-90°	59.1	0.5
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°	13070.0	100.0
0°-180°	13070.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949824

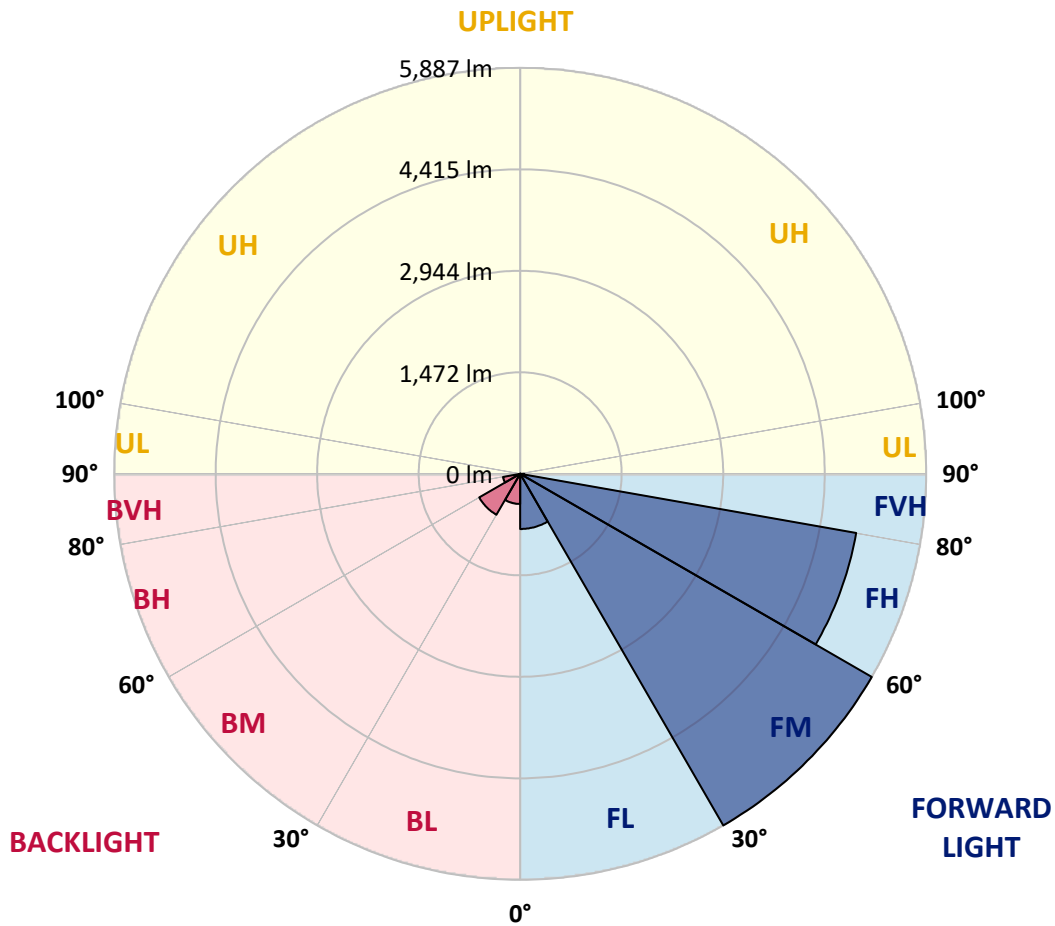
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.2	6.1			
FM (30°-60°)	5887.3	45.0			
FH (60°-80°)	4947.2	37.9			G2/5000
FVH (80°-90°)	57.5	0.4			G1/100
BL (0°-30°)	437.7	3.3	B1/500		
BM (30°-60°)	685.9	5.2	B1/1000		
BH (60°-80°)	252.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type III Medium



REPORT NUMBER: P949824

CATALOG NUMBER: GALN-SB4B-950-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7
2.5°	1914.1	1931.4	1928.9	1940.5	1944.6	1961.1	1977.6	1999.9	2024.7	2023.8
5°	1805.9	1823.3	1827.4	1843.1	1862.9	1888.5	1922.3	1966.9	2013.1	2020.5
7.5°	1678.0	1696.2	1706.9	1738.2	1774.6	1827.4	1882.7	1947.9	2024.7	2035.4
10°	1550.1	1566.6	1580.6	1625.2	1682.9	1761.4	1851.3	1945.4	2048.6	2064.3
12.5°	1470.8	1486.5	1502.2	1541.0	1612.8	1708.5	1830.7	1957.0	2088.2	2110.5
15°	1442.8	1456.8	1469.2	1503.8	1570.7	1679.6	1826.6	1980.9	2138.6	2168.3
17.5°	1446.9	1454.3	1462.6	1489.0	1554.2	1666.4	1834.0	2022.2	2198.0	2224.4
20°	1470.8	1475.0	1475.8	1493.9	1551.7	1664.8	1848.8	2061.8	2254.1	2289.6
22.5°	1501.4	1503.0	1501.4	1513.7	1567.4	1677.2	1868.7	2109.7	2316.8	2349.9
25°	1644.2	1612.8	1573.2	1549.2	1593.8	1701.1	1898.4	2174.0	2385.3	2417.5
27.5°	2087.4	1997.4	1855.5	1696.2	1648.3	1735.8	1939.6	2239.3	2454.7	2483.6
30°	2807.1	2689.1	2448.1	2089.0	1823.3	1808.4	1993.3	2304.5	2528.1	2559.5
32.5°	3528.5	3499.6	3221.5	2724.6	2217.0	1970.2	2082.4	2392.8	2625.5	2650.3
35°	4258.1	4199.5	3971.7	3480.6	2823.6	2299.5	2231.0	2508.3	2753.5	2781.5
37.5°	4816.9	4781.4	4640.3	4235.8	3543.3	2807.9	2485.2	2687.4	2939.2	2970.5
40°	5310.5	5294.0	5246.1	4979.5	4348.1	3473.2	2880.6	2964.8	3196.7	3233.8
42.5°	5698.4	5737.2	5764.4	5690.2	5177.6	4232.5	3412.1	3354.3	3555.7	3593.7
45°	6095.4	6108.6	6218.4	6325.7	6001.3	5026.6	4011.3	3810.8	4002.3	4049.3
47.5°	6350.5	6403.3	6596.4	6785.4	6693.8	5814.0	4655.1	4349.7	4519.8	4608.1
50°	6369.4	6469.3	6735.1	7064.4	7198.1	6563.4	5355.1	4963.8	5144.6	5242.0
52.5°	6053.3	6208.5	6620.4	7102.4	7470.5	7198.1	6078.9	5577.9	5809.8	5936.9
55°	4641.1	4844.1	6188.7	6896.0	7481.2	7679.3	6783.8	6217.6	6551.0	6694.6
57.5°	4043.5	4145.9	4865.6	6537.8	7282.3	7873.3	7421.0	6826.7	7357.4	7535.7
60°	3364.2	3498.8	4080.7	5951.8	7012.4	7892.3	7983.9	7612.5	8231.5	8432.1
62.5°	2286.3	2432.4	3011.0	4944.8	6643.5	7883.2	8445.3	8421.3	9203.0	9418.4
65°	1416.3	1508.0	1889.3	4037.7	6127.6	7893.1	8928.1	9403.5	10228.1	10446.8
67.5°	1119.2	1161.3	1360.2	3100.1	5238.7	7670.2	9410.1	10327.1	11193.0	11366.3
70°	751.9	777.5	989.6	2078.3	3897.4	6641.8	9401.1	10791.0	11689.8	11776.5
72.5°	396.2	416.0	578.6	962.4	2354.0	4721.2	7924.5	10236.3	11195.4	11065.0
75°	198.1	231.1	389.6	488.6	1005.3	2633.0	4920.9	8070.5	8811.7	8306.6
77.5°	150.2	181.6	321.9	321.9	350.0	886.5	2084.1	4401.7	4060.0	3380.7
80°	95.7	123.8	281.5	243.5	146.1	225.3	543.1	1233.1	862.5	656.2
82.5°	56.1	80.9	234.4	160.9	81.7	83.4	153.5	262.5	223.7	174.2
85°	22.3	52.8	160.9	63.6	32.2	20.6	46.2	56.1	46.2	34.7
87.5°	0.0	12.4	28.1	0.0	2.5	1.7	3.3	4.1	4.1	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949824
 CATALOG NUMBER: GALN-SB4B-950-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2038.7	0°	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7	2038.7
2040.3	2.5°	2047.8	2049.4	2054.4	2055.2	2043.6	2028.8	2023.0	2020.5	2010.6	2009.8
2053.5	5°	2072.5	2080.0	2072.5	2051.1	1999.9	1928.1	1873.6	1829.0	1788.6	1776.2
2098.9	7.5°	2122.0	2129.5	2107.2	2023.0	1894.2	1751.5	1622.7	1531.9	1450.2	1419.7
2154.2	10°	2193.0	2202.9	2132.8	1962.7	1734.9	1505.5	1287.6	1134.1	1014.4	965.7
2229.3	12.5°	2282.2	2286.3	2146.8	1871.1	1527.8	1200.1	891.4	727.2	620.7	581.1
2320.1	15°	2380.4	2374.6	2148.5	1746.5	1245.5	848.5	581.9	477.9	435.0	421.8
2410.9	17.5°	2483.6	2459.6	2115.4	1566.6	936.0	580.2	431.7	406.9	399.5	396.2
2500.9	20°	2585.1	2531.4	2055.2	1331.3	671.9	433.3	392.1	384.6	380.5	378.8
2591.7	22.5°	2677.5	2585.9	1952.0	1058.1	487.8	383.0	370.6	364.0	356.6	353.3
2680.0	25°	2767.5	2617.3	1806.8	803.1	390.4	358.2	348.3	335.9	326.0	321.9
2774.9	27.5°	2855.0	2637.1	1625.2	594.3	348.3	335.1	316.9	299.6	292.2	290.5
2876.4	30°	2948.3	2643.7	1418.8	443.2	322.7	306.2	279.8	260.0	255.9	256.7
3013.5	32.5°	3062.2	2653.6	1210.8	363.2	301.3	271.5	240.2	219.6	216.2	219.6
3213.2	35°	3198.3	2673.4	1010.3	334.3	282.3	236.1	202.2	184.9	181.6	184.1
3469.1	37.5°	3383.2	2705.6	822.9	328.5	266.6	206.3	170.0	156.0	156.0	156.8
3782.7	40°	3629.2	2791.4	655.4	324.4	258.3	184.1	143.6	137.8	140.3	142.0
4182.2	42.5°	3928.8	2973.8	542.3	319.4	249.3	174.2	130.4	127.9	132.1	133.7
4660.9	45°	4264.7	3204.9	502.7	311.2	241.0	180.8	124.6	121.3	126.3	127.1
5197.4	47.5°	4612.2	3431.1	497.7	302.1	232.8	190.7	123.0	115.6	121.3	122.2
5770.2	50°	4963.8	3578.8	502.7	288.1	219.6	190.7	123.8	109.8	114.7	117.2
6364.5	52.5°	5317.9	3646.5	499.4	257.5	196.4	179.1	123.8	104.8	109.8	111.4
7006.6	55°	5661.3	3633.3	449.0	212.1	166.7	158.5	120.5	100.7	104.0	104.8
7613.3	57.5°	5932.8	3449.3	355.7	165.1	135.4	132.1	109.8	95.7	98.2	97.4
8169.6	60°	6074.8	3044.8	254.2	127.1	106.5	104.0	96.6	89.1	90.8	86.7
8640.9	62.5°	6076.4	2510.0	170.0	100.7	85.0	82.5	82.5	80.1	78.4	70.2
9005.7	65°	5946.8	1916.5	113.1	80.1	68.5	64.4	69.3	68.5	62.7	51.2
9117.1	67.5°	5653.0	1256.2	85.8	62.7	52.8	50.3	55.3	57.8	53.6	42.9
8711.0	70°	5048.8	731.3	71.0	48.7	39.6	37.1	44.6	49.5	44.6	34.7
7445.7	72.5°	4193.7	394.5	57.8	36.3	27.2	24.8	35.5	40.4	35.5	25.6
4777.3	75°	2721.3	211.3	44.6	23.9	14.0	15.7	26.4	29.7	24.8	16.5
1402.3	77.5°	913.7	93.3	28.1	11.6	6.6	6.6	15.7	18.2	11.6	5.8
255.0	80°	203.9	38.8	11.6	5.0	2.5	2.5	3.3	3.3	1.7	0.0
78.4	82.5°	66.9	15.7	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
19.8	85°	25.6	5.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	9.9	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

180°
2038.7
2011.4
1768.8
1407.3
945.1
568.7
421.8
395.4
377.2
352.4
320.2
288.9
256.7
218.7
183.2
156.0
142.0
133.7
127.9
123.0
118.0
111.4
104.8
97.4
85.8
67.7
49.5
42.1
33.0
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