

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: P940184

Luminaire Tested: **GALN-SB3A-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9401 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

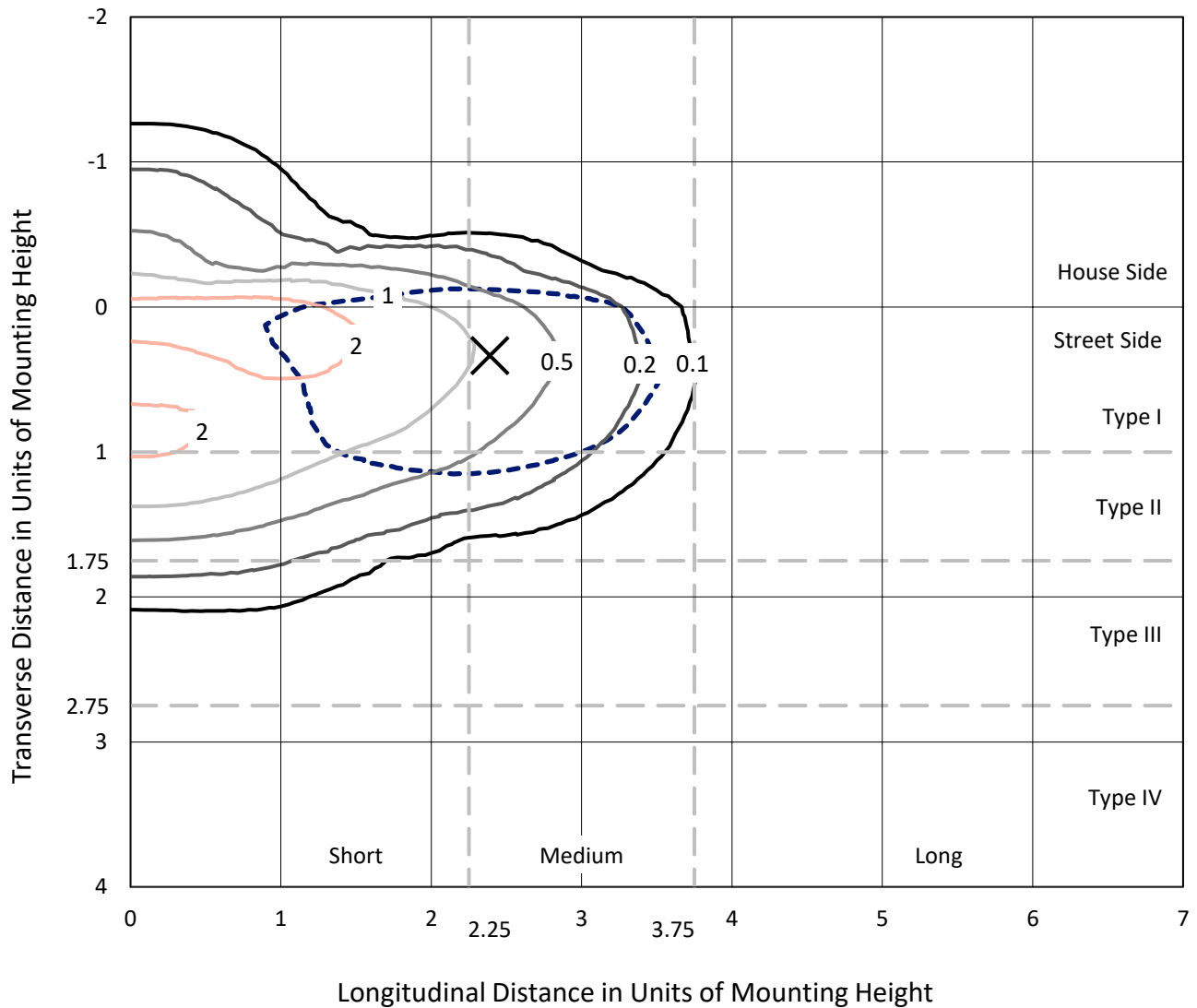
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

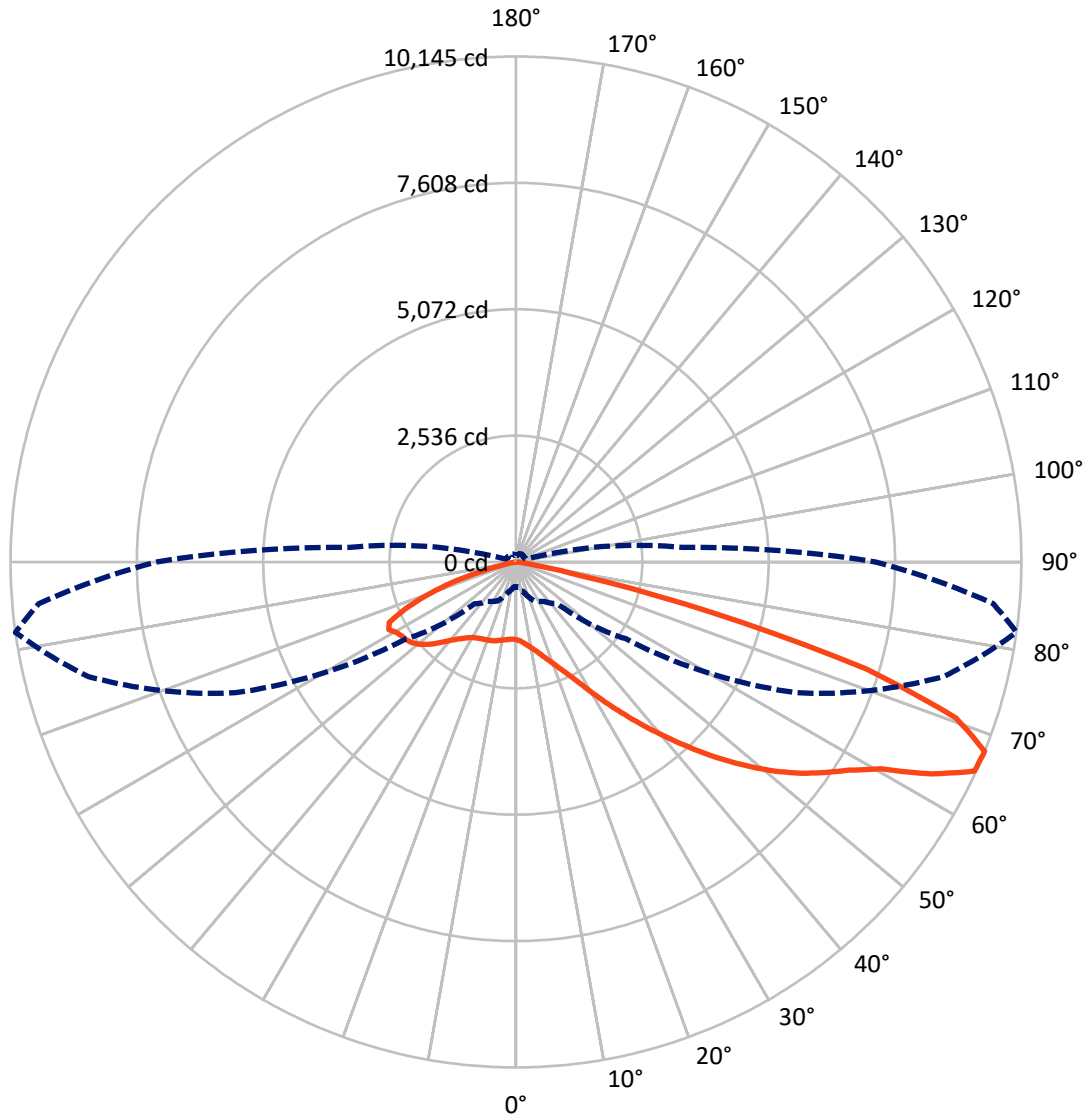
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.9	0.0	1702.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7698.1	0.0	7698.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	9401.0	0.0	9401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	1.5
10°-20°	360.6	3.8
20°-30°	577.5	6.1
30°-40°	1021.2	10.9
40°-50°	1789.3	19.0
50°-60°	2386.4	25.4
60°-70°	2221.6	23.6
70°-80°	852.7	9.1
80°-90°	53.0	0.6
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°	9401.0	100.0
0°-180°	9401.0	100.0

Coefficient of Utilization



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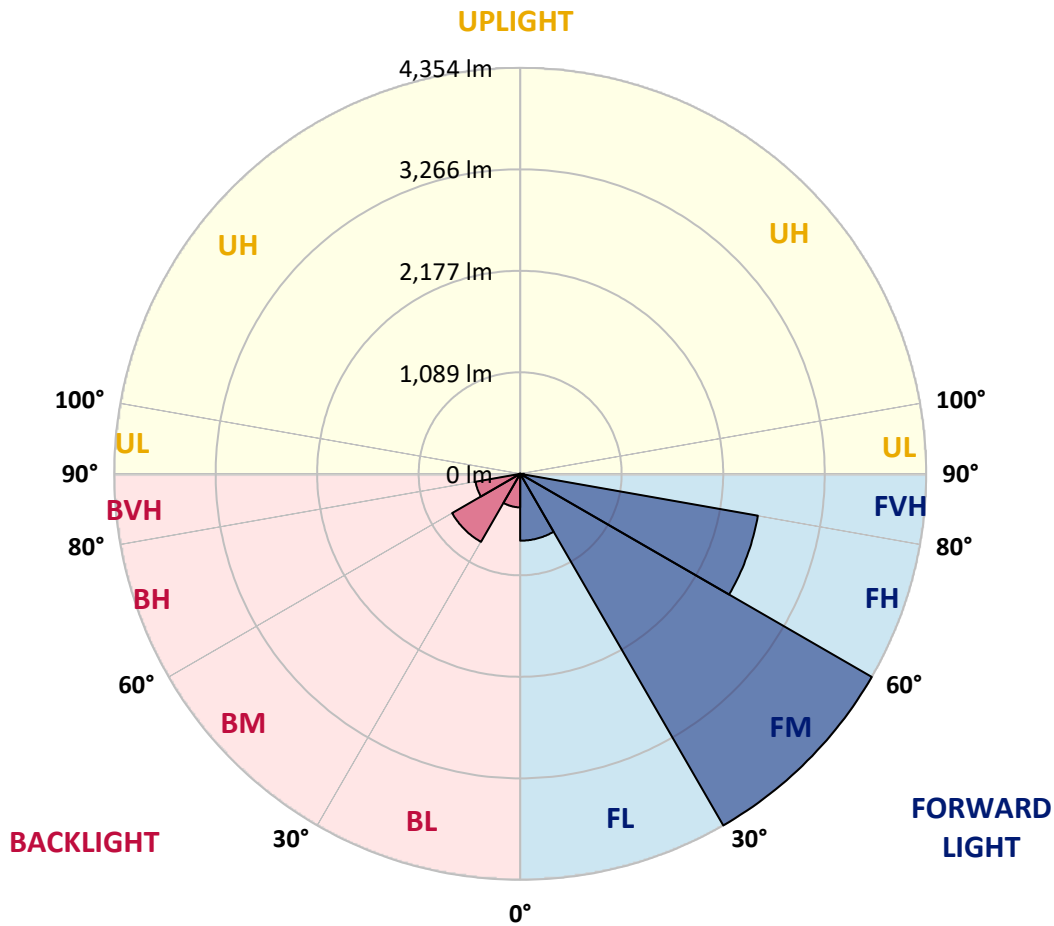
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.2	7.6			
FM (30°-60°)	4354.2	46.3			
FH (60°-80°)	2588.2	27.5			G2/5000
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	359.7	3.8	B1/500		
BM (30°-60°)	842.8	9.0	B1/1000		
BH (60°-80°)	486.0	5.2	B1/500		G1/500
BVH (80°-90°)	14.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4
2.5°	1646.1	1655.6	1650.2	1647.4	1642.7	1635.9	1630.5	1613.6	1596.0	1584.5
5°	1679.3	1688.7	1688.1	1690.8	1694.2	1696.2	1694.8	1675.9	1650.8	1631.2
7.5°	1650.8	1661.7	1670.5	1684.0	1707.7	1732.7	1744.9	1740.9	1715.1	1688.1
10°	1570.3	1581.8	1602.8	1634.6	1684.7	1738.8	1784.2	1805.2	1788.9	1759.1
12.5°	1422.7	1434.2	1475.5	1544.6	1628.5	1722.6	1809.2	1865.4	1869.5	1839.7
15°	1256.9	1268.4	1312.4	1399.0	1527.0	1677.9	1822.8	1929.0	1964.9	1939.2
17.5°	1154.0	1164.2	1197.3	1267.1	1400.4	1588.6	1818.0	1996.7	2078.6	2058.3
20°	1122.9	1131.7	1147.3	1196.0	1307.0	1495.8	1786.9	2060.3	2201.1	2189.6
22.5°	1156.1	1164.2	1168.9	1190.6	1260.3	1434.9	1747.6	2125.3	2343.2	2344.6
25°	1232.5	1240.7	1235.2	1248.8	1279.2	1416.0	1732.7	2201.8	2521.9	2536.8
27.5°	1358.4	1359.1	1346.3	1345.6	1350.3	1444.4	1748.3	2283.7	2747.3	2775.1
30°	1610.9	1600.7	1551.3	1497.9	1473.5	1529.7	1791.6	2380.5	3013.3	3062.7
32.5°	2000.1	1985.2	1894.5	1766.6	1638.0	1667.1	1869.5	2490.8	3303.0	3392.4
35°	2422.4	2418.4	2323.6	2133.4	1908.7	1862.7	1996.0	2635.6	3619.1	3761.2
37.5°	2815.0	2813.0	2758.8	2534.8	2261.3	2135.5	2199.1	2825.2	3957.5	4163.3
40°	3173.7	3179.8	3125.7	2925.3	2649.9	2485.4	2475.2	3059.4	4333.9	4601.2
42.5°	3483.7	3490.5	3435.7	3287.5	3033.6	2872.5	2814.3	3346.3	4701.4	5071.6
45°	3694.2	3736.2	3728.1	3609.6	3427.6	3260.4	3221.8	3706.4	5120.4	5570.5
47.5°	3753.8	3792.4	3853.3	3869.5	3758.5	3594.1	3640.1	4140.3	5544.1	6070.0
50°	3606.9	3642.8	3769.4	3937.9	4015.1	3964.3	4046.9	4605.3	5977.9	6568.1
52.5°	3317.2	3353.8	3513.5	3780.2	4094.9	4254.7	4455.0	5063.5	6398.2	7039.9
55°	2898.3	2936.8	3141.9	3443.8	3942.6	4374.5	4795.5	5521.1	6783.4	7464.3
57.5°	2328.4	2356.8	2570.0	2992.3	3559.5	4255.3	5046.6	6020.6	7146.2	7881.2
60°	1517.5	1542.5	1790.3	2261.3	2924.7	3857.4	5096.7	6577.6	7628.1	8423.4
62.5°	1009.2	1026.1	1173.0	1518.8	2059.6	3093.2	4803.6	7022.3	8334.7	9366.9
65°	692.4	709.3	856.2	1097.2	1330.7	2046.1	3960.9	6963.4	8975.0	10116.2
67.5°	494.1	508.3	632.9	860.3	963.2	1188.5	2685.1	6210.8	8883.0	10144.6
70°	354.0	362.1	465.0	670.1	765.5	714.1	1493.1	4750.1	7777.7	9367.6
72.5°	247.7	250.4	322.9	510.3	616.6	521.2	710.7	3167.0	5882.5	7352.6
75°	167.9	171.2	217.3	374.3	494.8	398.0	376.3	1698.2	3453.3	4069.9
77.5°	102.9	104.2	140.1	255.8	370.2	303.2	242.3	719.5	1336.1	1311.7
80°	58.2	58.2	89.3	159.1	252.5	195.6	169.9	305.9	423.0	371.6
82.5°	32.5	33.2	65.0	98.8	167.2	115.7	93.4	141.5	182.7	161.8
85°	13.5	14.9	39.9	46.7	79.9	57.5	37.9	59.6	67.7	60.2
87.5°	1.4	2.0	12.2	8.8	9.5	11.5	5.4	11.5	9.5	9.5
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°
1557.4	0°	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4	1557.4
1580.4	2.5°	1567.6	1557.4	1531.7	1501.9	1462.7	1443.7	1418.0	1400.4	1385.5	1386.9
1619.7	5°	1598.0	1572.3	1514.8	1443.0	1353.7	1290.1	1222.4	1175.7	1137.8	1129.7
1673.8	7.5°	1640.0	1599.4	1498.5	1369.3	1218.3	1103.9	1001.7	936.1	889.4	874.5
1739.5	10°	1694.2	1635.3	1477.6	1276.5	1059.3	913.7	804.1	752.7	720.8	710.0
1816.7	12.5°	1757.1	1676.6	1449.8	1163.5	895.5	755.4	685.6	659.9	649.8	646.4
1911.4	15°	1836.3	1728.0	1407.8	1029.5	756.7	658.6	628.8	625.4	626.8	625.4
2025.1	17.5°	1930.4	1784.2	1339.5	891.4	663.3	609.2	598.3	601.0	604.4	603.7
2152.4	20°	2033.3	1839.7	1252.2	768.9	599.7	574.0	567.9	570.6	573.3	571.9
2299.3	22.5°	2150.3	1899.2	1155.4	673.5	557.0	541.5	534.7	535.4	535.4	532.7
2485.4	25°	2290.5	1964.9	1053.9	605.8	524.6	512.4	504.3	501.5	497.5	489.4
2711.5	27.5°	2457.6	2034.6	956.4	558.4	498.8	487.3	477.9	471.1	460.9	447.4
2982.9	30°	2645.8	2119.2	873.8	528.6	478.5	467.0	456.2	446.0	431.2	414.2
3294.9	32.5°	2867.1	2209.9	813.6	509.0	460.3	448.1	435.2	423.0	406.8	389.9
3645.5	35°	3131.1	2319.6	778.4	495.5	446.0	429.8	415.6	402.0	389.9	375.0
4026.6	37.5°	3417.4	2436.0	767.5	488.7	436.6	411.5	395.3	385.8	384.4	375.7
4438.8	40°	3730.8	2574.1	775.7	484.6	426.4	393.9	376.3	374.3	377.7	362.1
4879.4	42.5°	4062.4	2737.9	789.2	479.9	412.2	376.3	359.4	359.4	356.7	335.0
5345.1	45°	4421.2	2926.7	802.7	468.4	395.3	358.7	345.9	341.1	329.6	308.6
5813.4	47.5°	4782.6	3118.9	812.9	447.4	375.0	343.8	332.3	321.5	304.6	285.6
6273.0	50°	5125.8	3291.5	802.1	416.3	352.0	329.6	317.4	302.6	284.3	271.4
6708.2	52.5°	5432.4	3441.1	756.0	379.7	327.6	314.7	303.9	288.3	273.4	259.9
7100.8	55°	5699.1	3562.3	674.8	345.2	305.9	301.9	291.0	271.4	251.1	239.6
7490.0	57.5°	5954.9	3654.3	573.3	316.8	286.3	287.7	271.4	253.8	234.9	222.7
8014.6	60°	6295.4	3777.5	470.4	290.4	265.3	269.4	251.8	238.9	215.2	199.7
8914.1	62.5°	6839.6	3969.0	373.6	257.9	241.0	242.3	234.9	219.3	190.9	172.6
9580.8	65°	7271.4	3898.6	294.4	222.7	213.2	215.2	215.2	198.3	167.9	146.9
9616.7	67.5°	7222.6	3338.2	234.9	188.2	186.8	188.2	192.9	178.7	148.9	132.0
8884.3	70°	6653.4	2655.3	188.2	156.4	162.4	159.1	172.6	163.1	134.0	117.1
6887.6	72.5°	5429.0	1912.8	143.5	129.3	124.5	130.0	155.7	146.9	111.7	92.7
3648.2	75°	3172.4	1020.7	106.9	102.2	90.0	108.3	138.1	125.2	85.3	68.4
1118.2	77.5°	1032.9	356.0	78.5	75.1	67.0	87.3	117.8	105.6	69.7	54.1
327.6	80°	276.8	107.6	53.5	49.4	43.3	65.0	93.4	83.9	50.1	35.2
140.8	82.5°	111.0	45.3	31.1	27.8	23.7	44.7	73.8	67.7	37.2	22.3
44.0	85°	35.9	14.9	11.5	8.8	10.8	27.8	44.0	46.0	26.4	11.5
6.8	87.5°	4.7	2.0	2.0	2.7	2.0	4.7	13.5	12.9	7.4	1.4
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>
1557.4
1373.3
1111.4
859.6
701.9
644.4
624.7
602.4
571.3
531.3
488.0
446.0
412.9
390.5
373.6
375.0
362.8
335.0
308.0
285.0
269.4
258.6
238.3
221.3
197.6
171.2
144.8
129.3
115.1
90.7
66.3
52.1
34.5
22.3
8.8
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