

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: P948226

Luminaire Tested: **GALN-SB3B-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11602 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

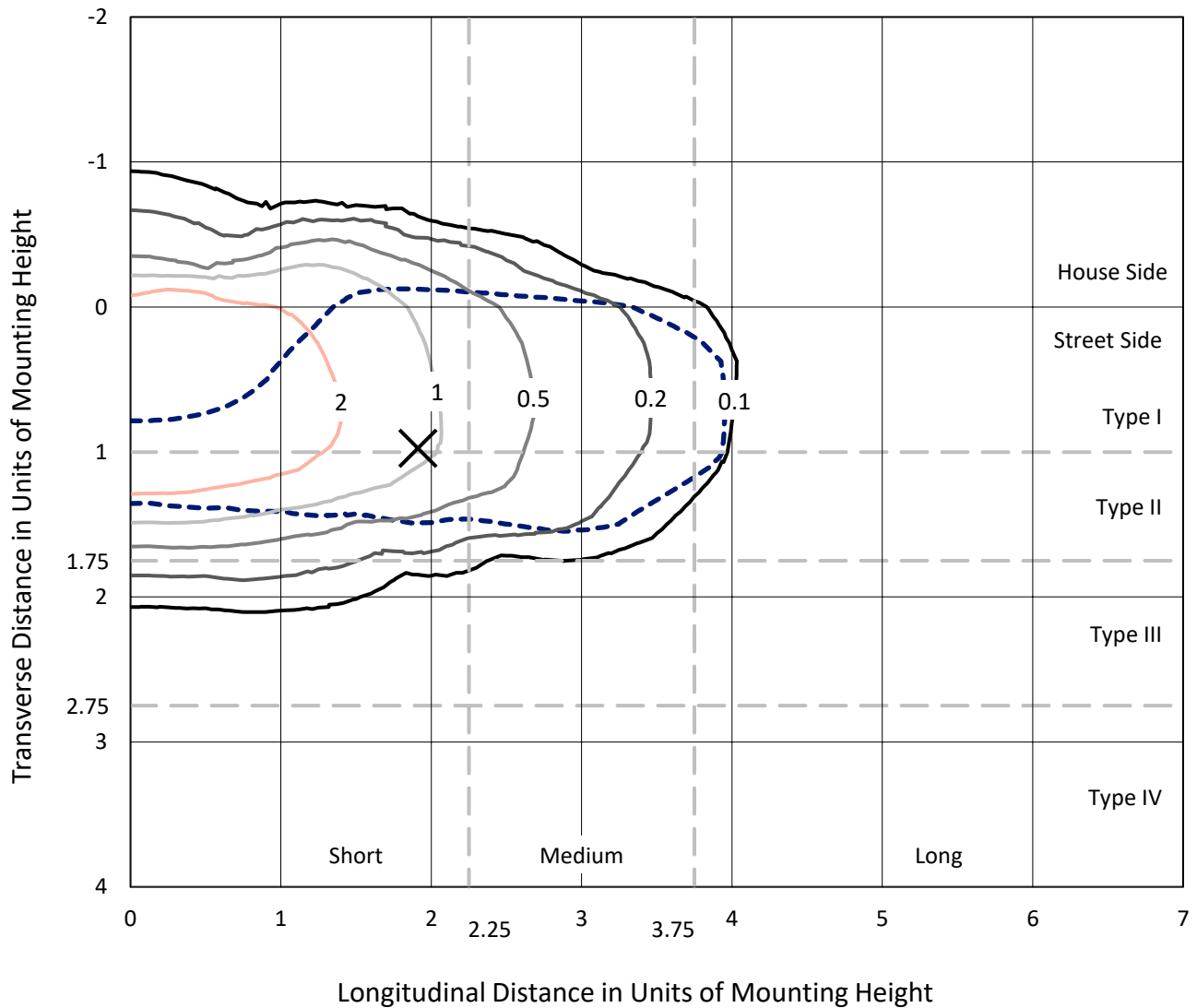
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

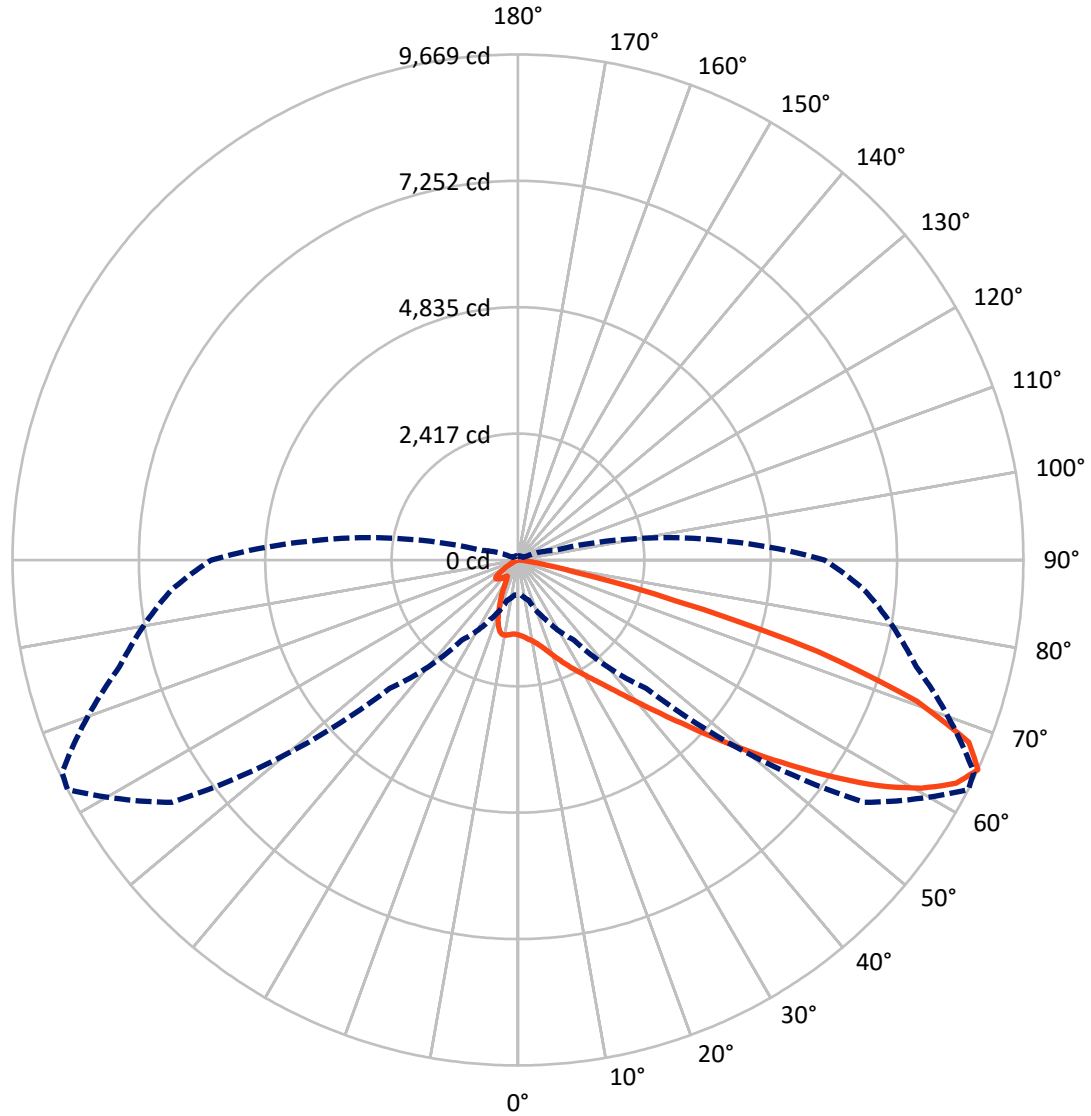
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1705.4	0.0	1705.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9896.6	0.0	9896.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	11602.0	0.0	11602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.2
10°-20°	374.3	3.2
20°-30°	651.8	5.6
30°-40°	1174.8	10.1
40°-50°	2330.0	20.1
50°-60°	3173.9	27.4
60°-70°	2533.4	21.8
70°-80°	1146.4	9.9
80°-90°	82.4	0.7
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°	11602.0	100.0
0°-180°	11602.0	100.0

Coefficient of Utilization



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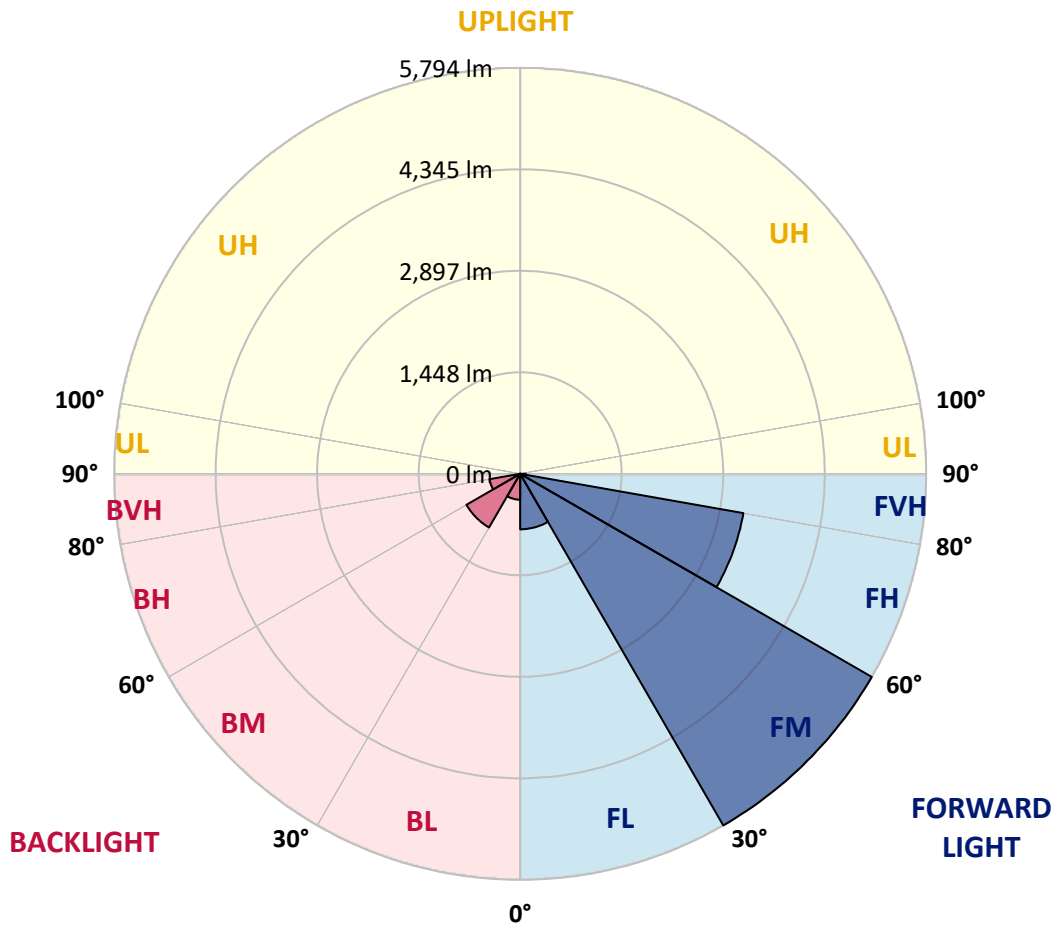
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.0	6.8			
FM (30°-60°)	5793.7	49.9			
FH (60°-80°)	3234.6	27.9			G2/5000
FVH (80°-90°)	76.3	0.7			G1/100
BL (0°-30°)	369.1	3.2	B1/500		
BM (30°-60°)	885.0	7.6	B1/1000		
BH (60°-80°)	445.2	3.8	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9
2.5°	1465.4	1461.4	1467.0	1464.6	1463.0	1459.8	1458.2	1456.6	1453.5	1451.1
5°	1469.4	1467.0	1472.6	1477.4	1482.2	1487.0	1489.4	1492.6	1489.4	1483.0
7.5°	1435.9	1434.3	1446.3	1460.6	1482.2	1500.5	1520.5	1531.7	1532.5	1530.1
10°	1433.5	1429.5	1441.5	1459.0	1487.0	1519.7	1554.8	1578.8	1582.0	1592.3
12.5°	1471.0	1467.0	1483.8	1502.9	1531.7	1566.0	1609.1	1642.6	1647.4	1661.8
15°	1534.1	1528.5	1547.6	1572.4	1609.1	1648.2	1693.7	1724.0	1728.0	1745.6
17.5°	1607.5	1601.9	1624.3	1650.6	1690.5	1744.0	1796.7	1830.2	1835.0	1846.2
20°	1701.7	1694.5	1712.1	1736.0	1778.3	1842.2	1905.2	1953.1	1952.3	1952.3
22.5°	1811.0	1799.9	1815.0	1834.2	1874.1	1951.5	2035.3	2092.0	2092.0	2069.6
25°	1928.4	1917.2	1934.0	1951.5	1986.6	2074.4	2172.6	2242.8	2246.0	2207.7
27.5°	2075.2	2060.9	2073.6	2094.4	2115.1	2204.5	2321.1	2402.5	2404.1	2345.0
30°	2357.8	2317.1	2277.2	2254.8	2264.4	2353.0	2477.5	2567.7	2575.7	2494.3
32.5°	2875.0	2867.0	2726.5	2543.0	2447.2	2512.6	2652.3	2760.8	2765.6	2661.1
35°	3678.7	3669.2	3443.3	3093.7	2781.6	2726.5	2864.6	2993.1	2989.9	2871.8
37.5°	4638.1	4629.4	4331.6	3863.9	3358.7	3049.8	3138.4	3273.3	3293.2	3138.4
40°	5457.8	5425.1	5236.8	4785.8	4124.9	3586.2	3527.9	3617.3	3638.0	3454.5
42.5°	6078.8	6050.9	5955.1	5673.3	5052.4	4379.5	3986.8	4021.1	4044.3	3824.0
45°	6400.5	6394.1	6432.4	6406.1	5997.4	5353.3	4642.9	4500.0	4508.8	4233.5
47.5°	6446.0	6442.8	6617.6	6865.0	6809.9	6451.6	5485.0	5097.1	5065.9	4695.6
50°	6177.8	6171.4	6506.6	6970.4	7352.7	7374.2	6441.2	5769.9	5701.3	5173.7
52.5°	5321.4	5319.8	5870.5	6642.3	7543.4	8182.0	7386.2	6509.0	6394.1	5679.7
55°	4094.6	4124.1	4755.5	5667.8	7195.4	8570.7	8234.7	7329.5	7153.1	6189.0
57.5°	2900.5	2943.6	3567.8	4380.3	6116.3	8340.8	8808.5	8151.6	7961.7	6696.6
60°	1558.0	1596.3	2221.3	3191.1	4550.3	7483.6	9111.0	8865.2	8685.6	7178.7
62.5°	928.3	941.0	1199.6	2060.1	3077.7	5717.2	8982.5	9408.8	9261.1	7583.4
65°	666.5	668.9	799.0	1257.9	1868.5	3473.6	8081.4	9669.0	9623.5	7888.3
67.5°	561.1	559.5	613.8	835.7	1273.1	1740.0	6193.8	9301.0	9494.2	8081.4
70°	481.3	483.7	547.5	612.2	957.0	984.9	3079.3	8098.2	8510.0	8132.5
72.5°	358.4	366.4	425.4	557.9	722.3	677.6	1063.2	6004.6	6749.3	7662.4
75°	253.0	257.0	299.3	469.3	538.8	493.3	542.8	3104.1	4058.7	5874.5
77.5°	194.8	201.9	226.7	328.0	530.8	346.4	332.0	1074.3	1650.6	3548.6
80°	105.4	118.1	163.6	237.1	372.7	245.0	164.4	427.8	559.5	1659.4
82.5°	54.3	60.7	114.1	170.8	212.3	213.9	81.4	178.0	230.7	512.4
85°	21.6	26.3	76.6	94.2	109.3	105.4	36.7	71.8	83.0	142.1
87.5°	4.8	8.0	27.9	21.6	20.8	22.3	8.8	16.8	16.0	16.8
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°
1431.9	0°	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9	1431.9
1441.5	2.5°	1440.7	1437.5	1428.7	1419.1	1408.0	1401.6	1397.6	1396.8	1391.2	1387.2
1473.4	5°	1464.6	1461.4	1444.7	1424.7	1403.2	1386.4	1370.4	1356.1	1335.3	1331.3
1519.7	7.5°	1512.5	1503.7	1476.6	1449.5	1408.8	1360.1	1301.0	1233.2	1172.5	1154.1
1581.2	10°	1571.6	1559.6	1525.3	1477.4	1387.2	1254.7	1111.8	979.3	874.0	844.5
1653.8	12.5°	1638.6	1628.3	1582.8	1494.2	1297.0	1056.8	838.1	673.7	571.5	545.9
1731.2	15°	1718.4	1703.3	1640.2	1468.6	1135.8	803.0	575.5	478.1	441.4	436.6
1819.8	17.5°	1803.1	1778.3	1691.3	1376.8	918.7	570.7	444.6	416.6	400.7	395.9
1909.2	20°	1880.5	1848.5	1721.6	1238.0	686.4	444.6	398.3	379.9	365.6	360.0
1998.6	22.5°	1957.9	1912.4	1721.6	1048.8	514.8	394.3	365.6	348.8	332.0	324.9
2094.4	25°	2038.5	1977.9	1691.3	838.1	414.2	361.6	334.4	316.1	301.7	292.9
2185.4	27.5°	2116.7	2032.9	1621.9	638.5	368.8	332.8	305.7	288.1	274.6	268.2
2284.3	30°	2191.0	2087.2	1524.5	484.5	339.2	304.9	279.4	264.2	250.6	244.2
2412.8	32.5°	2291.5	2155.8	1420.7	397.5	313.7	278.6	255.4	241.0	229.1	224.3
2579.7	35°	2431.2	2257.2	1331.3	390.3	292.1	257.0	233.9	220.3	208.3	204.3
2795.2	37.5°	2629.2	2420.8	1284.2	438.2	274.6	237.9	216.3	201.9	190.8	187.6
3068.9	40°	2873.4	2642.7	1309.8	486.1	262.6	221.1	200.3	186.0	176.4	172.4
3383.4	42.5°	3163.1	2916.5	1451.1	522.8	254.6	206.7	185.2	169.2	162.8	161.2
3740.2	45°	3496.0	3217.4	1667.4	561.9	241.8	193.2	170.0	158.0	153.2	152.4
4128.1	47.5°	3874.3	3547.8	1918.0	610.6	229.1	180.4	158.0	150.1	146.1	144.5
4532.8	50°	4249.4	3880.7	2175.8	637.7	218.7	168.4	148.5	142.1	138.9	138.1
4960.6	52.5°	4642.1	4223.1	2384.1	612.2	209.9	158.8	140.5	135.7	132.5	131.7
5354.9	55°	5016.5	4500.0	2420.0	519.6	192.4	149.3	131.7	129.3	125.3	125.3
5754.8	57.5°	5338.9	4638.9	2166.2	381.5	174.8	134.9	122.9	120.5	117.3	116.5
6115.5	60°	5635.0	4599.0	1672.2	257.0	155.6	120.5	111.7	110.1	107.0	103.0
6429.2	62.5°	5801.9	4423.4	1143.8	167.6	136.5	105.4	99.0	98.2	91.0	83.0
6661.5	65°	5864.9	4062.7	713.6	122.1	114.1	90.2	85.4	83.8	73.4	64.7
6793.2	67.5°	5809.8	3468.8	360.0	96.6	90.2	75.0	70.2	70.2	63.1	55.1
6785.2	70°	5589.5	2600.4	151.7	77.4	69.4	57.5	57.5	60.7	53.5	44.7
6433.2	72.5°	5111.4	1749.6	80.6	59.1	51.9	40.7	47.1	49.5	42.3	33.5
5265.5	75°	4063.5	1067.1	55.9	43.9	32.7	28.7	35.9	37.5	28.7	22.3
3610.1	77.5°	2779.2	613.0	37.5	27.9	20.8	16.8	24.7	23.1	15.2	10.4
1392.0	80°	1220.4	255.4	21.6	12.8	8.0	6.4	8.8	6.4	4.8	3.2
190.8	82.5°	142.9	59.9	8.0	4.8	3.2	1.6	0.8	0.0	0.0	0.0
58.3	85°	29.5	7.2	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	5.6	1.6	0.8	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>
1431.9
1391.2
1329.7
1145.4
833.3
538.8
431.8
393.5
356.8
320.9
289.7
268.2
245.0
224.3
204.3
186.8
171.6
161.2
151.7
144.5
138.1
131.7
124.5
115.7
102.2
81.4
63.9
54.3
43.9
33.5
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