

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: P939594

Luminaire Tested: **GALN-SB2B-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939594
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-SB2B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA 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: 8223 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

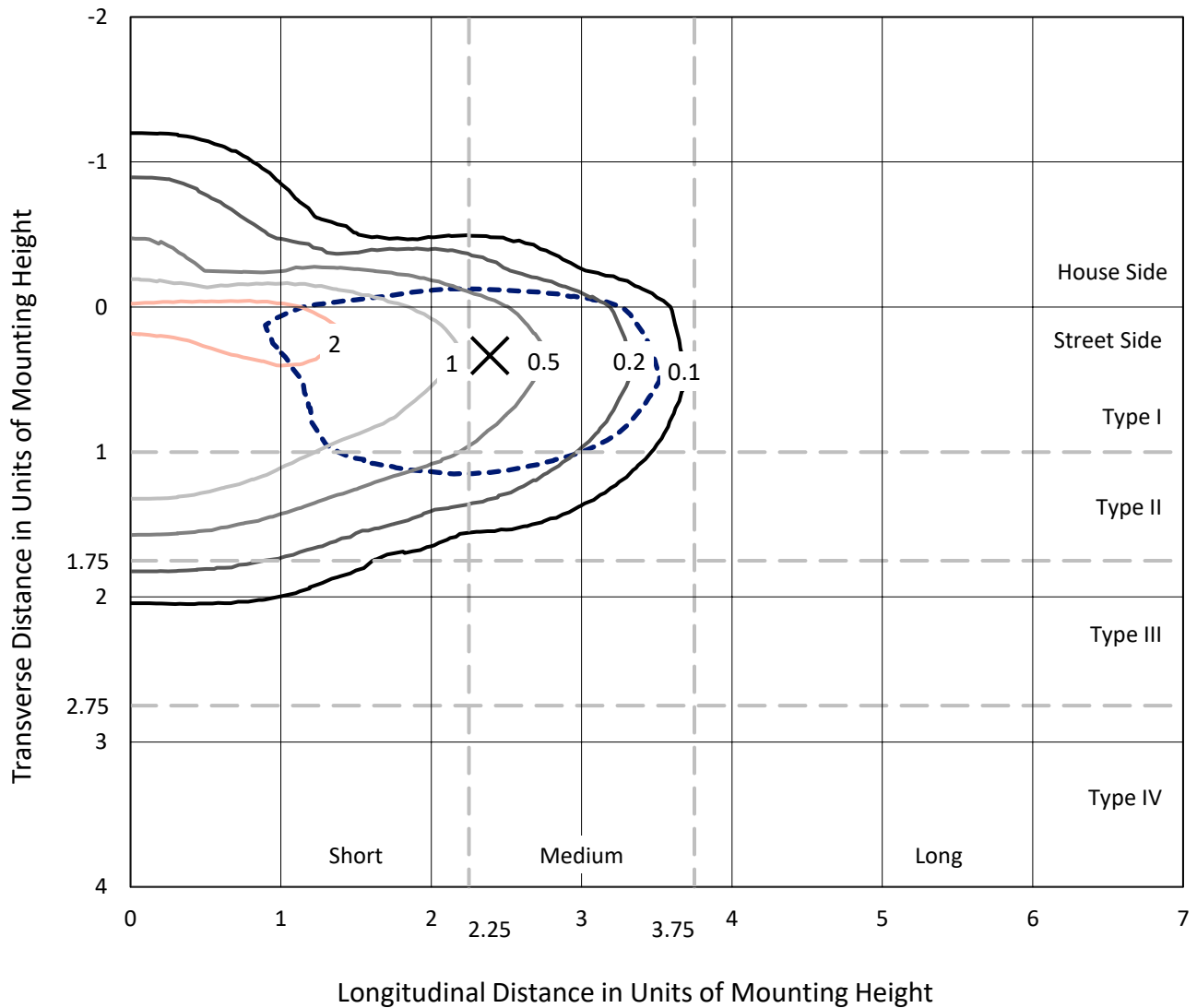
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

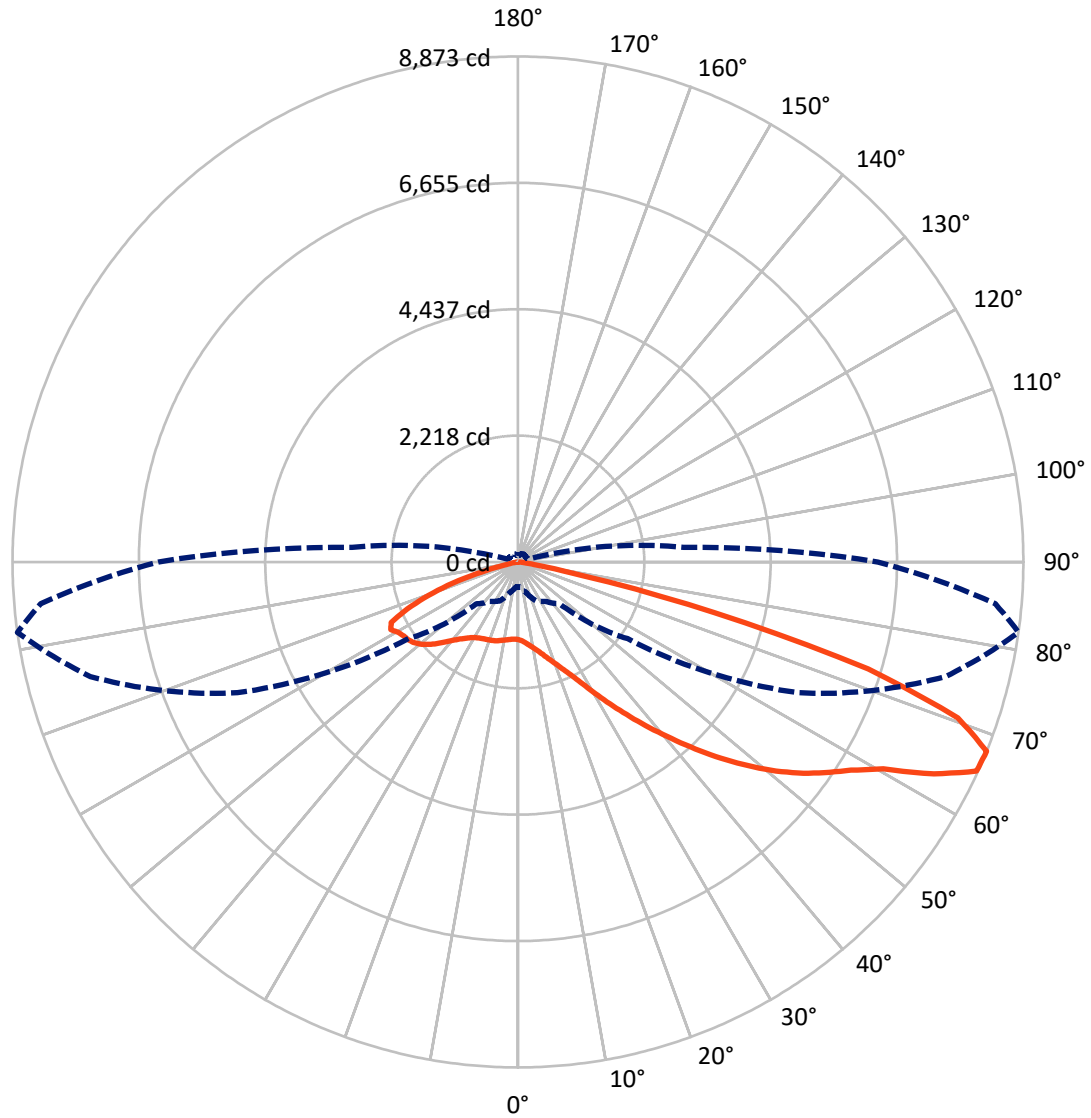
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1489.5	0.0	1489.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6733.5	0.0	6733.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	8223.0	0.0	8223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.5
10°-20°	315.4	3.8
20°-30°	505.1	6.1
30°-40°	893.3	10.9
40°-50°	1565.1	19.0
50°-60°	2087.4	25.4
60°-70°	1943.2	23.6
70°-80°	745.8	9.1
80°-90°	46.3	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°	8223.0	100.0
0°-180°	8223.0	100.0

Coefficient of Utilization



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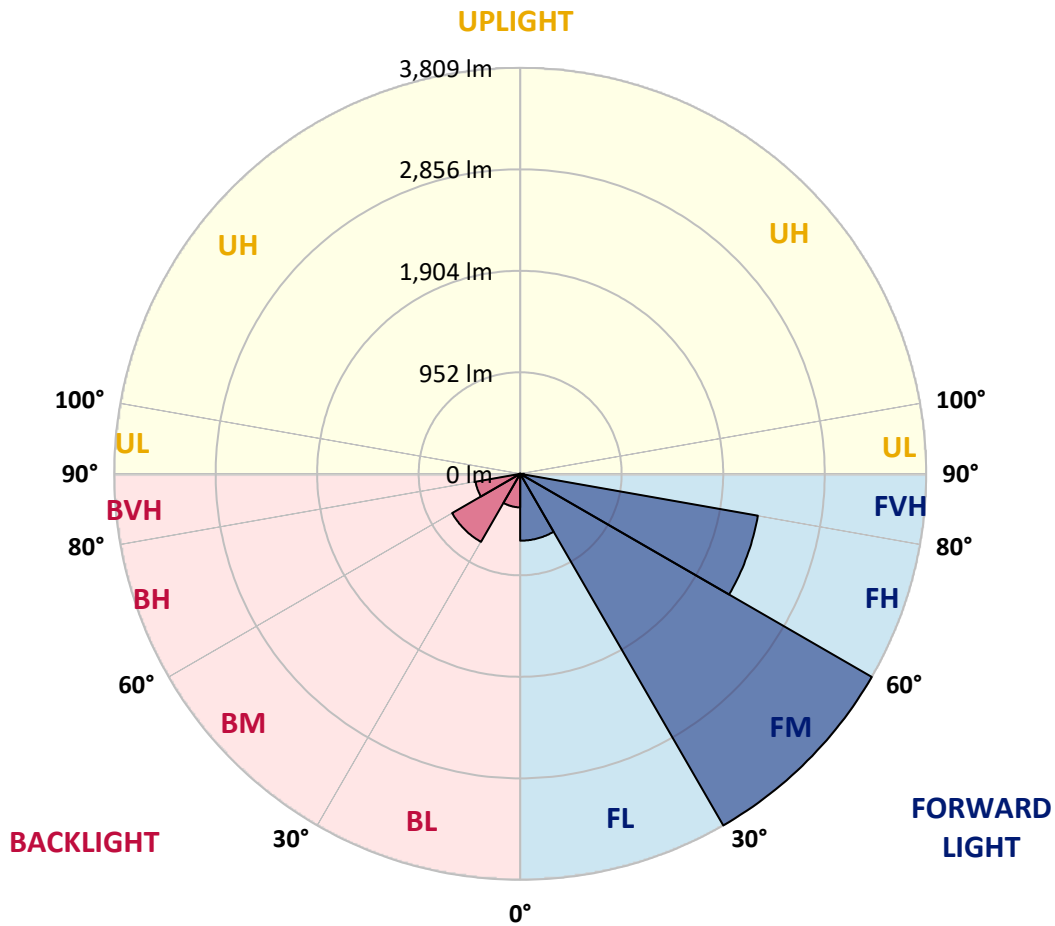
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.3	7.6			
FM (30°-60°)	3808.6	46.3			
FH (60°-80°)	2263.9	27.5			G2/5000
FVH (80°-90°)	33.7	0.4			G1/100
BL (0°-30°)	314.6	3.8	B1/500		
BM (30°-60°)	737.2	9.0	B1/1000		
BH (60°-80°)	425.1	5.2	B1/500		G1/500
BVH (80°-90°)	12.6	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°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
2.5°	1439.8	1448.1	1443.4	1441.0	1436.9	1430.9	1426.2	1411.4	1396.0	1386.0
5°	1468.8	1477.1	1476.5	1478.9	1481.9	1483.6	1482.5	1465.9	1444.0	1426.8
7.5°	1444.0	1453.4	1461.1	1473.0	1493.7	1515.6	1526.3	1522.7	1500.2	1476.5
10°	1373.5	1383.6	1401.9	1429.8	1473.6	1520.9	1560.6	1579.0	1564.7	1538.7
12.5°	1244.5	1254.5	1290.6	1351.0	1424.4	1506.7	1582.5	1631.6	1635.2	1609.2
15°	1099.4	1109.5	1148.0	1223.7	1335.6	1467.7	1594.4	1687.3	1718.7	1696.2
17.5°	1009.4	1018.3	1047.3	1108.3	1224.9	1389.5	1590.2	1746.5	1818.1	1800.4
20°	982.2	989.9	1003.5	1046.1	1143.2	1308.4	1563.0	1802.2	1925.3	1915.2
22.5°	1011.2	1018.3	1022.4	1041.4	1102.4	1255.1	1528.6	1859.0	2049.6	2050.8
25°	1078.1	1085.2	1080.5	1092.3	1118.9	1238.5	1515.6	1925.9	2205.9	2218.9
27.5°	1188.2	1188.8	1177.6	1177.0	1181.1	1263.4	1529.2	1997.5	2403.1	2427.3
30°	1409.0	1400.2	1356.9	1310.2	1288.9	1338.0	1567.1	2082.2	2635.7	2679.0
32.5°	1749.5	1736.4	1657.1	1545.2	1432.7	1458.2	1635.2	2178.7	2889.1	2967.3
35°	2118.9	2115.3	2032.5	1866.1	1669.5	1629.3	1745.9	2305.4	3165.6	3289.9
37.5°	2462.3	2460.5	2413.1	2217.2	1978.0	1867.9	1923.5	2471.2	3461.6	3641.6
40°	2776.1	2781.4	2734.0	2558.8	2317.8	2174.0	2165.1	2676.0	3790.8	4024.7
42.5°	3047.2	3053.1	3005.2	2875.5	2653.5	2512.6	2461.7	2927.0	4112.3	4436.1
45°	3231.3	3268.0	3260.9	3157.3	2998.1	2851.8	2818.1	3242.0	4478.7	4872.4
47.5°	3283.4	3317.2	3370.5	3384.7	3287.6	3143.7	3184.0	3621.5	4849.4	5309.4
50°	3155.0	3186.3	3297.0	3444.5	3512.0	3467.5	3539.8	4028.2	5228.9	5745.1
52.5°	2901.6	2933.5	3073.3	3306.5	3581.8	3721.5	3896.8	4429.0	5596.5	6157.8
55°	2535.1	2568.8	2748.2	3012.3	3448.6	3826.3	4194.6	4829.2	5933.4	6529.0
57.5°	2036.6	2061.5	2248.0	2617.4	3113.5	3722.1	4414.2	5266.2	6250.7	6893.7
60°	1327.3	1349.2	1565.9	1978.0	2558.2	3374.0	4458.0	5753.4	6672.2	7367.9
62.5°	882.7	897.5	1026.0	1328.5	1801.6	2705.6	4201.7	6142.4	7290.3	8193.2
65°	605.7	620.5	748.9	959.7	1163.9	1789.7	3464.6	6090.9	7850.4	8848.6
67.5°	432.2	444.6	553.6	752.5	842.5	1039.6	2348.6	5432.5	7769.9	8873.4
70°	309.6	316.7	406.7	586.1	669.6	624.6	1306.0	4154.9	6803.1	8193.8
72.5°	216.7	219.1	282.4	446.4	539.3	455.9	621.6	2770.1	5145.4	6431.3
75°	146.8	149.8	190.0	327.4	432.8	348.1	329.2	1485.4	3020.6	3559.9
77.5°	90.0	91.2	122.6	223.8	323.8	265.2	211.9	629.3	1168.7	1147.4
80°	50.9	50.9	78.1	139.1	220.8	171.1	148.6	267.6	370.0	325.0
82.5°	28.4	29.0	56.8	86.4	146.2	101.2	81.7	123.7	159.8	141.5
85°	11.8	13.0	34.9	40.9	69.9	50.3	33.2	52.1	59.2	52.7
87.5°	1.2	1.8	10.7	7.7	8.3	10.1	4.7	10.1	8.3	8.3
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°
1362.3	0°	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3	1362.3
1382.4	2.5°	1371.2	1362.3	1339.8	1313.7	1279.4	1262.8	1240.3	1224.9	1211.9	1213.1
1416.7	5°	1397.8	1375.3	1325.0	1262.2	1184.1	1128.4	1069.2	1028.4	995.2	988.1
1464.1	7.5°	1434.5	1399.0	1310.8	1197.7	1065.7	965.6	876.2	818.8	777.9	764.9
1521.5	10°	1481.9	1430.4	1292.4	1116.6	926.5	799.2	703.3	658.3	630.5	621.0
1589.0	12.5°	1536.9	1466.5	1268.1	1017.7	783.3	660.7	599.7	577.2	568.4	565.4
1671.9	15°	1606.2	1511.5	1231.4	900.5	661.9	576.1	550.0	547.0	548.2	547.0
1771.4	17.5°	1688.5	1560.6	1171.6	779.7	580.2	532.8	523.4	525.7	528.7	528.1
1882.7	20°	1778.5	1609.2	1095.3	672.6	524.5	502.0	496.7	499.1	501.5	500.3
2011.1	22.5°	1880.9	1661.3	1010.6	589.1	487.2	473.6	467.7	468.3	468.3	465.9
2174.0	25°	2003.4	1718.7	921.8	529.9	458.8	448.2	441.1	438.7	435.1	428.0
2371.7	27.5°	2149.7	1779.7	836.5	488.4	436.3	426.3	418.0	412.1	403.2	391.3
2609.1	30°	2314.3	1853.7	764.3	462.4	418.6	408.5	399.0	390.2	377.1	362.3
2882.0	32.5°	2507.9	1933.0	711.6	445.2	402.6	391.9	380.7	370.0	355.8	341.0
3188.7	35°	2738.8	2028.9	680.8	433.4	390.2	375.9	363.5	351.7	341.0	328.0
3522.0	37.5°	2989.2	2130.7	671.4	427.4	381.9	360.0	345.7	337.5	336.3	328.6
3882.6	40°	3263.3	2251.5	678.5	423.9	373.0	344.6	329.2	327.4	330.4	316.7
4268.0	42.5°	3553.4	2394.8	690.3	419.8	360.5	329.2	314.4	314.4	312.0	293.1
4675.3	45°	3867.2	2560.0	702.2	409.7	345.7	313.8	302.5	298.4	288.3	270.0
5085.0	47.5°	4183.3	2728.1	711.0	391.3	328.0	300.8	290.7	281.2	266.4	249.8
5487.0	50°	4483.5	2879.1	701.6	364.1	307.9	288.3	277.7	264.6	248.7	237.4
5867.7	52.5°	4751.7	3009.9	661.3	332.1	286.5	275.3	265.8	252.2	239.2	227.3
6211.0	55°	4984.9	3115.9	590.3	301.9	267.6	264.0	254.6	237.4	219.6	209.6
6551.5	57.5°	5208.7	3196.4	501.5	277.1	250.4	251.6	237.4	222.0	205.4	194.8
7010.3	60°	5506.5	3304.1	411.5	254.0	232.1	235.6	220.2	209.0	188.3	174.7
7797.1	62.5°	5982.5	3471.7	326.8	225.6	210.8	211.9	205.4	191.8	167.0	151.0
8380.3	65°	6360.2	3410.1	257.5	194.8	186.5	188.3	188.3	173.5	146.8	128.5
8411.6	67.5°	6317.6	2919.9	205.4	164.6	163.4	164.6	168.7	156.3	130.2	115.4
7771.1	70°	5819.7	2322.6	164.6	136.8	142.1	139.1	151.0	142.7	117.2	102.4
6024.5	72.5°	4748.7	1673.1	125.5	113.1	108.9	113.7	136.2	128.5	97.7	81.1
3191.1	75°	2774.9	892.8	93.5	89.4	78.7	94.7	120.8	109.5	74.6	59.8
978.0	77.5°	903.4	311.4	68.7	65.7	58.6	76.4	103.0	92.4	61.0	47.4
286.5	80°	242.1	94.1	46.8	43.2	37.9	56.8	81.7	73.4	43.8	30.8
123.1	82.5°	97.1	39.7	27.2	24.3	20.7	39.1	64.5	59.2	32.6	19.5
38.5	85°	31.4	13.0	10.1	7.7	9.5	24.3	38.5	40.3	23.1	10.1
5.9	87.5°	4.1	1.8	1.8	2.4	1.8	4.1	11.8	11.2	6.5	1.2
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°
1362.3
1201.2
972.1
751.9
613.9
563.6
546.4
526.9
499.7
464.7
426.9
390.2
361.1
341.6
326.8
328.0
317.3
293.1
269.4
249.2
235.6
226.2
208.4
193.6
172.9
149.8
126.7
113.1
100.6
79.3
58.0
45.6
30.2
19.5
7.7
0.0
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