

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: P947159

Luminaire Tested: **GALN-SB2C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10366 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

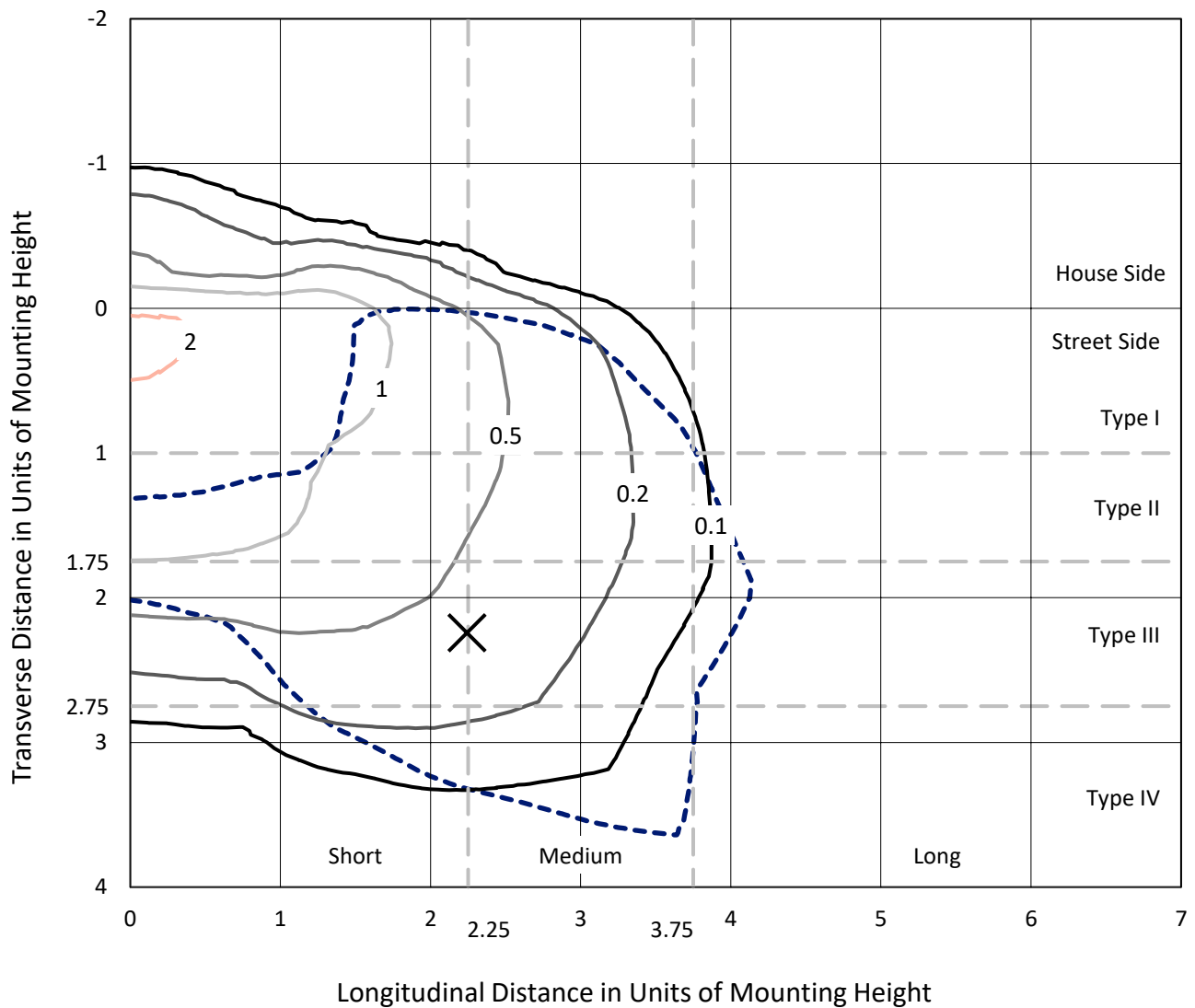
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

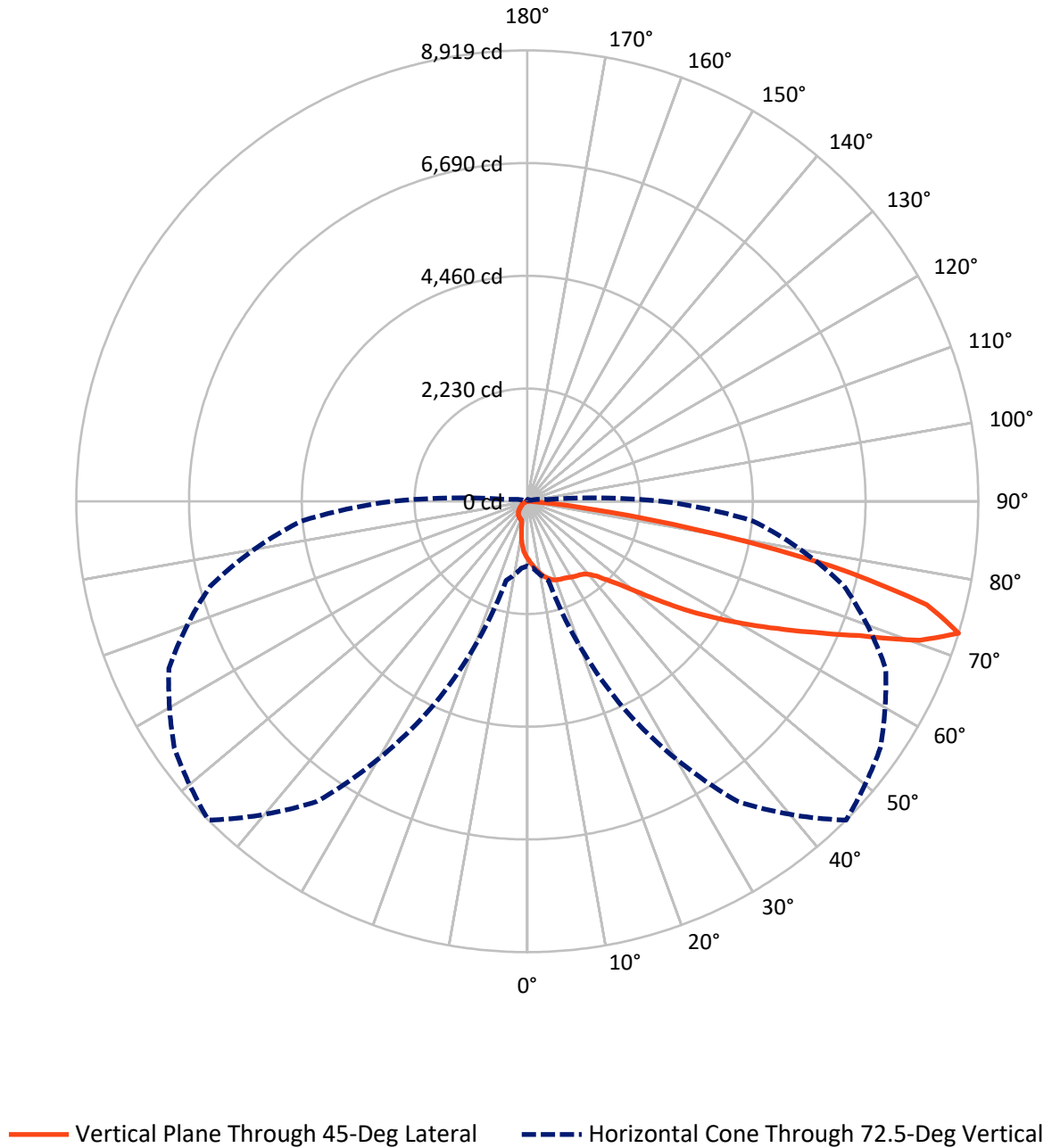
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1089.2	0.0	1089.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9276.8	0.0	9276.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	10366.0	0.0	10366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.0
10°-20°	312.7	3.0
20°-30°	513.5	5.0
30°-40°	728.3	7.0
40°-50°	1203.8	11.6
50°-60°	2162.5	20.9
60°-70°	3002.7	29.0
70°-80°	2178.1	21.0
80°-90°	157.5	1.5
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°	10366.0	100.0
0°-180°	10366.0	100.0

Coefficient of Utilization



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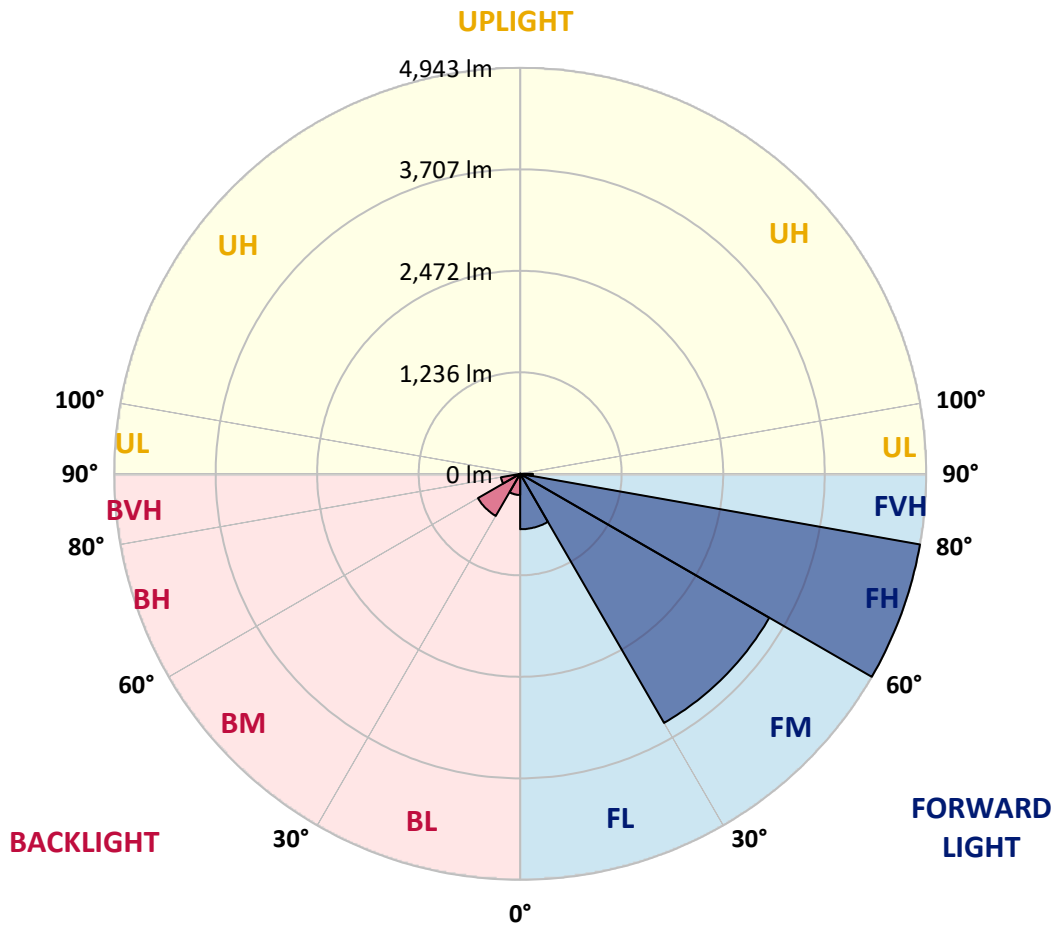
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.2	6.5			
FM (30°-60°)	3502.2	33.8			
FH (60°-80°)	4943.3	47.7			G2/5000
FVH (80°-90°)	156.1	1.5			G2/225
BL (0°-30°)	258.0	2.5	B1/500		
BM (30°-60°)	592.4	5.7	B1/1000		
BH (60°-80°)	237.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	35°	45°	46°	55°	65°	75°
0°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
2.5°	1240.3	1242.5	1241.0	1232.6	1218.4	1210.6	1206.4	1192.2	1183.0	1166.7
5°	1354.3	1362.7	1357.8	1340.8	1313.9	1294.8	1289.2	1260.1	1234.0	1203.5
7.5°	1475.2	1479.5	1470.3	1448.4	1412.3	1379.7	1374.8	1334.4	1292.7	1246.0
10°	1580.0	1584.9	1570.8	1538.9	1497.9	1457.6	1450.5	1405.9	1356.4	1299.1
12.5°	1667.7	1672.6	1654.3	1616.0	1570.8	1529.0	1521.9	1475.2	1420.8	1357.1
15°	1734.2	1743.4	1718.6	1677.6	1628.8	1587.0	1583.5	1537.5	1484.4	1413.7
17.5°	1773.1	1782.3	1759.0	1709.4	1667.7	1632.3	1628.1	1589.9	1540.3	1472.4
20°	1779.5	1788.0	1763.2	1720.1	1685.4	1657.1	1655.0	1627.4	1591.3	1526.2
22.5°	1760.4	1771.0	1748.4	1713.7	1689.6	1674.8	1671.9	1656.4	1635.9	1580.7
25°	1740.6	1749.1	1732.1	1701.7	1688.9	1687.5	1689.6	1686.8	1682.6	1635.9
27.5°	1739.2	1748.4	1729.3	1700.2	1693.2	1708.0	1710.1	1723.6	1727.1	1686.1
30°	1751.2	1757.6	1739.2	1708.7	1705.2	1739.2	1739.9	1763.9	1769.6	1728.5
32.5°	1777.4	1784.4	1766.0	1721.5	1716.5	1763.9	1766.0	1797.9	1807.1	1773.8
35°	1838.9	1847.4	1826.2	1756.8	1739.2	1787.3	1793.6	1831.1	1849.5	1821.9
37.5°	1992.5	1967.7	1938.7	1828.3	1790.8	1824.1	1834.7	1878.5	1911.1	1879.3
40°	2373.8	2296.0	2205.4	1950.0	1881.4	1902.6	1911.1	1955.0	1999.5	1968.4
42.5°	2946.2	2854.3	2708.5	2230.2	2017.9	2028.5	2034.9	2073.1	2136.1	2111.3
45°	3456.4	3423.1	3274.5	2708.5	2273.4	2221.0	2228.8	2248.6	2341.3	2332.1
47.5°	3848.4	3829.3	3714.6	3257.6	2705.0	2456.6	2478.5	2487.7	2621.5	2654.0
50°	4149.8	4142.7	4040.1	3745.8	3268.9	2804.0	2811.8	2792.0	2992.2	3072.9
52.5°	4434.2	4458.3	4382.6	4199.3	3871.0	3259.0	3257.6	3164.2	3434.4	3556.1
55°	4691.1	4699.5	4707.3	4662.0	4476.7	3776.9	3763.5	3610.6	3947.4	4073.4
57.5°	4932.3	4935.9	5005.2	5097.9	5107.1	4333.0	4308.3	4125.0	4507.8	4597.7
60°	5094.4	5110.6	5257.1	5514.6	5627.1	4906.9	4893.4	4706.6	5078.1	5119.8
62.5°	4860.9	4959.9	5329.3	5840.1	6118.2	5542.9	5536.6	5361.1	5678.1	5644.1
65°	3934.7	4102.4	4751.9	6060.2	6600.0	6253.3	6262.5	6075.7	6294.4	6184.0
67.5°	2752.4	2929.3	3697.7	6077.9	7138.5	7087.5	7140.6	6847.7	6948.8	6701.2
70°	1903.3	1994.6	2494.8	5697.2	7558.0	8236.6	8235.2	7795.8	7599.8	6936.8
72.5°	1280.0	1327.4	1620.3	4519.8	7249.6	8919.4	8878.3	8520.3	7819.1	6487.5
75°	539.9	574.5	750.0	2540.1	5735.4	8160.2	8049.1	7529.7	6947.4	5108.5
77.5°	171.2	186.1	295.8	909.2	3159.2	6133.7	6016.3	4702.4	4656.4	2562.7
80°	81.4	94.8	166.3	365.1	1243.2	3336.1	3319.8	2133.3	2003.1	692.0
82.5°	35.4	41.7	92.0	195.3	556.1	1190.1	1214.2	725.9	600.7	262.5
85°	11.3	14.9	42.5	89.9	234.9	295.8	292.2	172.6	242.0	142.9
87.5°	0.0	0.0	14.2	20.5	24.1	17.0	19.1	14.9	67.2	39.6
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°
1135.6	0°	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6	1135.6
1149.8	2.5°	1141.3	1130.0	1110.1	1091.7	1075.5	1059.2	1049.3	1035.1	1033.7	1033.7
1168.2	5°	1149.1	1130.7	1095.3	1057.8	1014.6	973.6	932.6	892.9	880.2	871.0
1197.9	7.5°	1171.7	1142.7	1086.8	1015.3	933.3	843.4	780.4	712.5	686.3	672.2
1237.5	10°	1204.2	1164.6	1079.7	954.5	821.5	699.1	609.2	535.6	507.3	495.3
1280.7	12.5°	1240.3	1191.5	1067.0	878.8	699.1	552.6	464.9	430.9	426.7	426.7
1332.3	15°	1283.5	1224.1	1045.1	789.6	571.0	437.3	406.1	407.5	411.8	414.6
1382.6	17.5°	1328.1	1258.7	1010.4	689.9	457.8	393.4	394.1	396.2	399.8	402.6
1437.0	20°	1376.2	1293.4	964.4	583.7	392.7	380.7	382.8	384.9	387.7	389.2
1488.0	22.5°	1427.8	1325.9	909.9	479.7	370.8	370.0	370.8	372.9	376.4	376.4
1547.4	25°	1483.0	1362.0	847.6	404.0	359.4	359.4	360.9	362.3	365.1	365.1
1604.7	27.5°	1539.6	1395.3	781.8	364.4	349.5	348.8	348.8	350.9	352.4	353.1
1661.3	30°	1601.9	1434.2	716.0	355.9	341.7	338.2	336.1	337.5	338.9	339.6
1720.8	32.5°	1665.6	1471.7	657.3	359.4	334.0	327.6	320.5	319.1	319.1	321.9
1782.3	35°	1736.3	1512.7	612.0	371.5	329.7	312.0	300.7	294.3	295.0	299.3
1855.9	37.5°	1821.2	1562.3	578.8	382.1	326.9	294.3	275.9	268.2	263.2	268.2
1957.1	40°	1932.3	1635.1	554.7	390.6	323.4	273.8	249.1	236.3	227.1	230.0
2114.2	42.5°	2095.8	1749.8	545.5	391.3	315.6	249.8	221.5	204.5	191.0	191.7
2350.5	45°	2325.0	1930.9	592.9	382.1	298.6	223.6	192.5	169.8	161.3	159.2
2703.5	47.5°	2639.2	2194.8	702.6	363.0	273.8	198.1	164.2	145.0	138.7	135.1
3167.0	50°	3060.2	2533.7	824.3	341.7	249.1	174.1	140.8	128.8	124.5	121.0
3716.8	52.5°	3548.4	2877.6	924.1	320.5	224.3	152.8	125.9	118.9	115.3	112.5
4247.4	55°	3996.2	3114.6	918.4	297.9	200.2	135.8	115.3	111.1	106.8	104.0
4704.5	57.5°	4275.0	3147.9	757.1	273.1	172.6	122.4	105.4	102.6	97.6	94.1
5100.0	60°	4403.1	2958.3	530.7	240.6	145.0	109.7	94.8	93.4	87.0	82.1
5474.3	62.5°	4426.4	2605.9	353.8	200.2	121.0	97.6	84.2	82.1	73.6	65.1
5778.6	65°	4331.6	2102.1	244.8	156.4	103.3	84.9	72.2	67.9	58.7	50.2
5850.7	67.5°	4031.6	1475.9	170.5	112.5	87.7	67.2	57.3	55.9	48.8	41.7
5482.8	70°	3481.9	841.3	113.9	84.2	69.3	46.0	45.3	46.7	39.6	34.0
4479.5	72.5°	2669.6	384.9	70.8	61.6	47.4	31.1	36.1	36.8	30.4	25.5
2794.8	75°	1571.5	164.9	44.6	39.6	24.1	20.5	26.2	26.9	20.5	16.3
1021.7	77.5°	534.9	62.3	28.3	23.3	12.0	11.3	17.0	17.0	11.3	6.4
205.2	80°	121.7	23.3	14.2	9.2	5.7	5.0	5.7	5.0	2.8	0.7
63.0	82.5°	34.7	9.2	5.7	3.5	2.1	2.1	0.7	0.0	0.0	0.0
21.9	85°	9.9	4.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	4.2	0.7	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

<u>180°</u>
1135.6
1037.3
875.2
674.3
495.3
426.7
414.6
402.6
389.9
377.8
365.8
353.8
341.0
324.1
301.4
266.7
228.5
188.9
156.4
133.0
120.3
111.8
102.6
93.4
80.7
60.8
47.4
39.6
31.1
22.6
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