

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: P947178

Luminaire Tested: **GALN-SB2C-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947178
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-SB2C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 11565 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

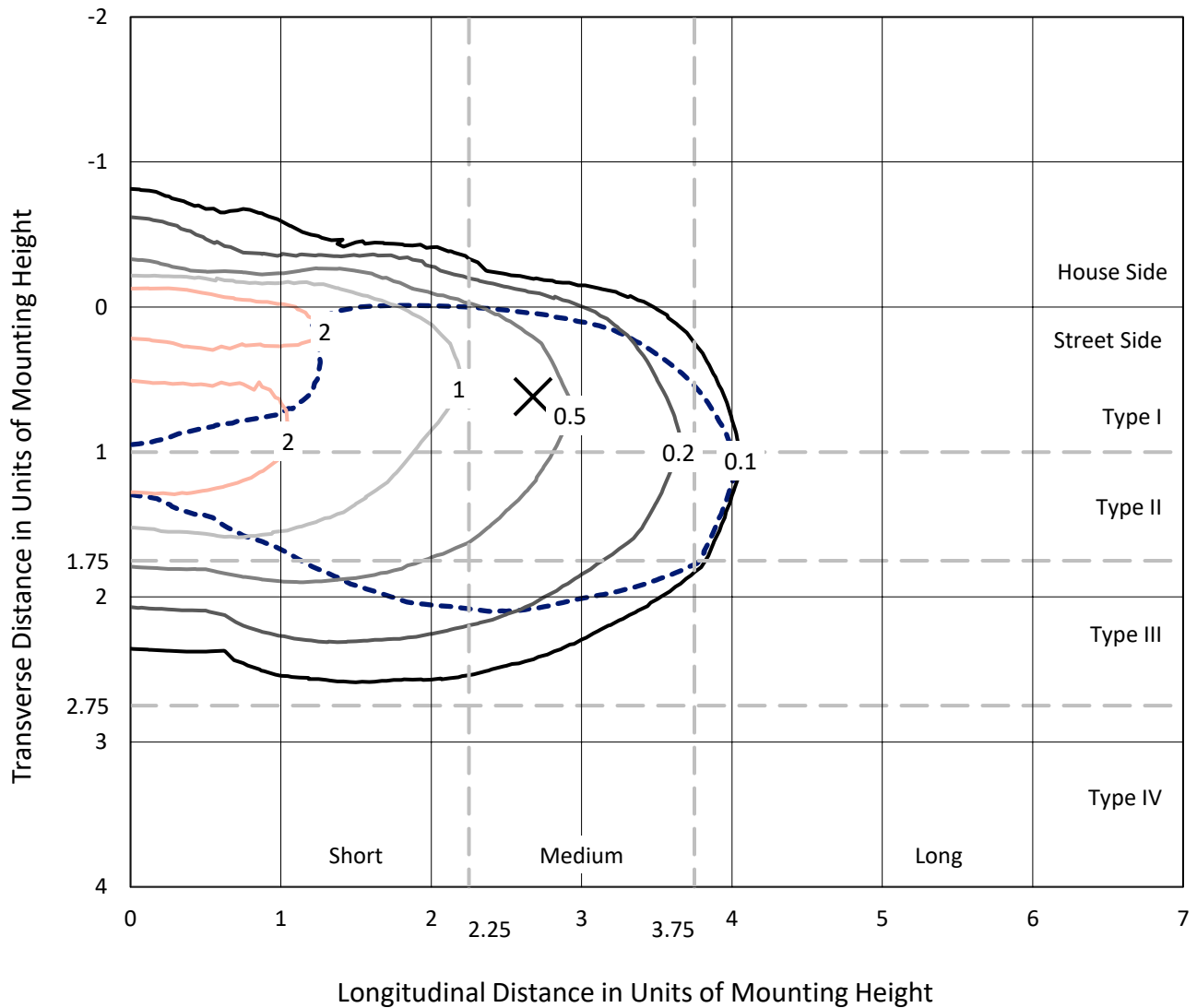
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947178
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Iso-Footcandle Lines of Horizontal Illumination

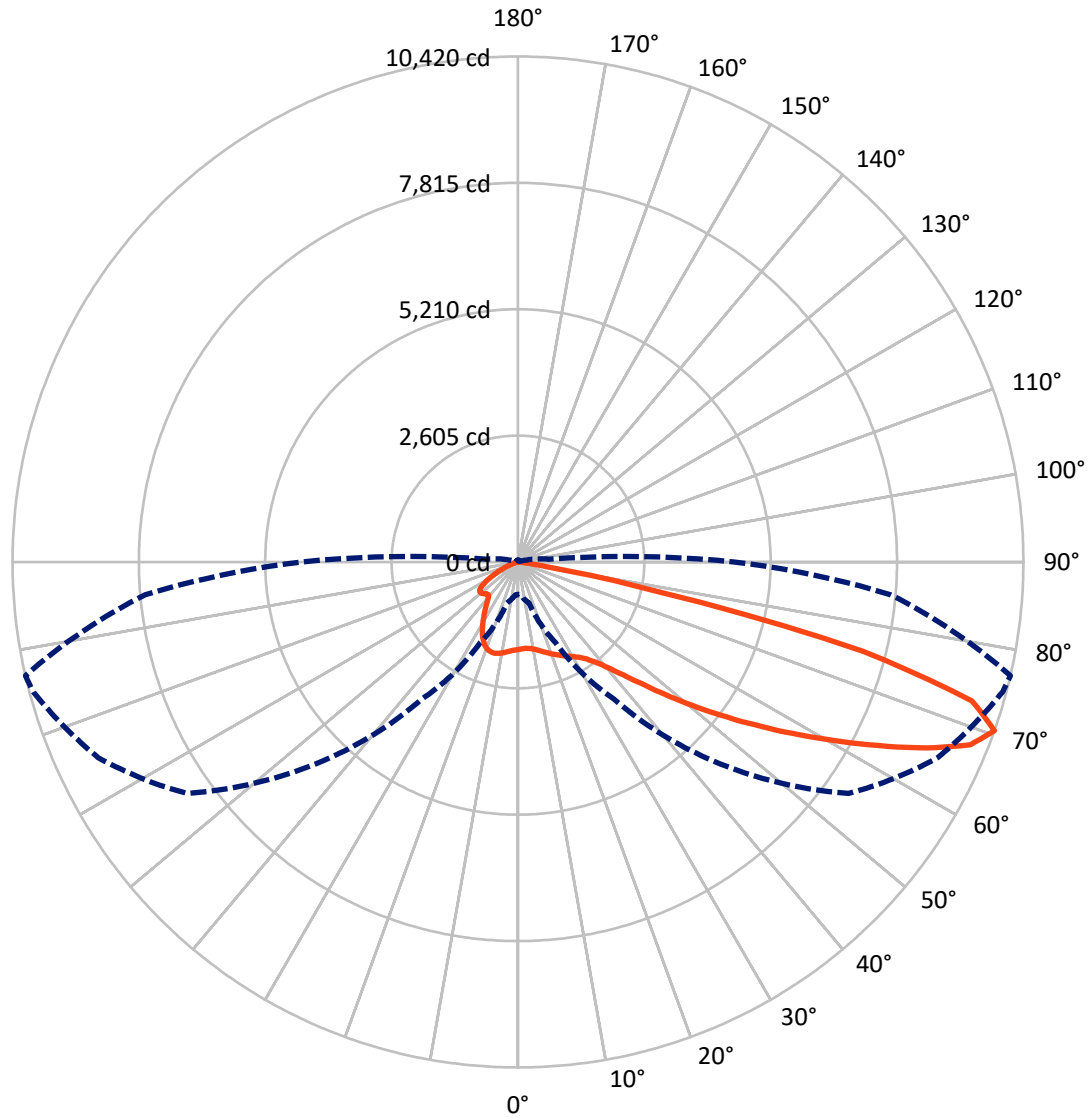
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P947178
CATALOG NUMBER: GALN-SB2C-835-U-T3R-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.1	0.0	1219.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10345.9	0.0	10345.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	11565.0	0.0	11565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.3
10°-20°	369.1	3.2
20°-30°	570.8	4.9
30°-40°	1035.8	9.0
40°-50°	1955.3	16.9
50°-60°	2825.2	24.4
60°-70°	3007.3	26.0
70°-80°	1593.7	13.8
80°-90°	52.3	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°	11565.0	100.0
0°-180°	11565.0	100.0



REPORT NUMBER: P947178

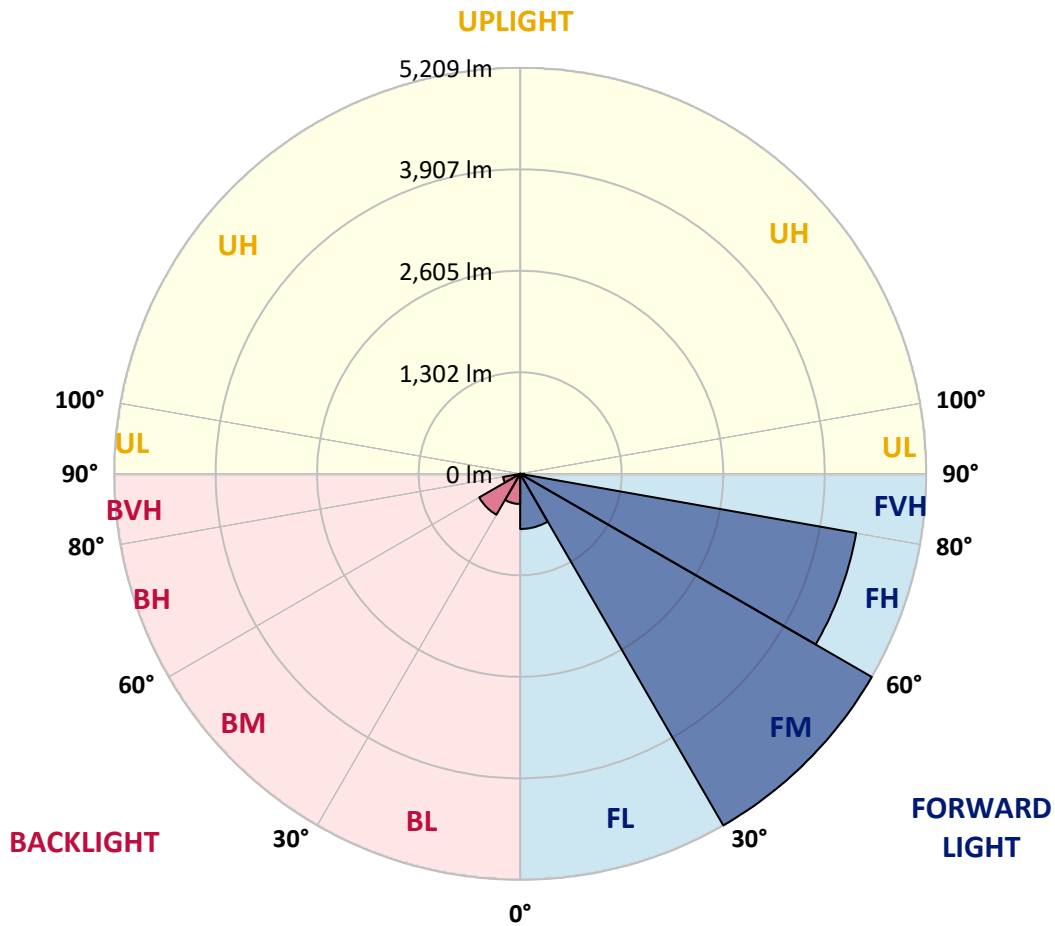
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.1	6.1			
FM (30°-60°)	5209.4	45.0			
FH (60°-80°)	4377.5	37.9			G2/5000
FVH (80°-90°)	50.9	0.4			G1/100
BL (0°-30°)	387.3	3.3	B1/500		
BM (30°-60°)	606.9	5.2	B1/1000		
BH (60°-80°)	223.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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: P947178
 CATALOG NUMBER: GALN-SB2C-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9
2.5°	1693.7	1709.0	1706.8	1717.0	1720.7	1735.3	1749.9	1769.6	1791.5	1790.8
5°	1598.0	1613.3	1617.0	1630.8	1648.4	1671.0	1701.0	1740.4	1781.3	1787.9
7.5°	1484.8	1500.8	1510.3	1538.1	1570.2	1617.0	1665.9	1723.6	1791.5	1801.0
10°	1371.6	1386.2	1398.6	1438.0	1489.2	1558.5	1638.1	1721.4	1812.7	1826.6
12.5°	1301.5	1315.3	1329.2	1363.5	1427.1	1511.8	1619.9	1731.6	1847.8	1867.5
15°	1276.6	1289.0	1300.0	1330.7	1389.8	1486.2	1616.2	1752.8	1892.3	1918.6
17.5°	1280.3	1286.9	1294.2	1317.5	1375.2	1474.5	1622.8	1789.3	1944.9	1968.3
20°	1301.5	1305.1	1305.8	1321.9	1373.0	1473.1	1636.0	1824.4	1994.5	2026.0
22.5°	1328.5	1329.9	1328.5	1339.4	1386.9	1484.0	1653.5	1866.7	2050.1	2079.3
25°	1454.8	1427.1	1392.0	1370.8	1410.3	1505.2	1679.8	1923.7	2110.7	2139.2
27.5°	1847.0	1767.4	1641.8	1500.8	1458.5	1535.9	1716.3	1981.4	2172.0	2197.6
30°	2483.9	2379.4	2166.2	1848.5	1613.3	1600.2	1763.8	2039.1	2237.0	2264.8
32.5°	3122.2	3096.6	2850.5	2410.8	1961.7	1743.3	1842.6	2117.2	2323.2	2345.1
35°	3767.8	3716.0	3514.4	3079.8	2498.5	2034.7	1974.1	2219.5	2436.4	2461.2
37.5°	4262.2	4230.8	4106.0	3748.1	3135.3	2484.6	2199.0	2378.0	2600.7	2628.5
40°	4699.0	4684.4	4642.0	4406.1	3847.4	3073.3	2548.9	2623.4	2828.6	2861.5
42.5°	5042.2	5076.6	5100.7	5034.9	4581.4	3745.2	3019.2	2968.1	3146.3	3179.9
45°	5393.5	5405.2	5502.4	5597.3	5310.3	4447.7	3549.4	3372.0	3541.4	3583.0
47.5°	5619.2	5666.0	5836.8	6004.1	5923.0	5144.5	4119.1	3848.9	3999.3	4077.5
50°	5636.0	5724.4	5959.5	6251.0	6369.3	5807.6	4738.4	4392.2	4552.2	4638.4
52.5°	5356.3	5493.6	5858.0	6284.5	6610.3	6369.3	5378.9	4935.6	5140.8	5253.3
55°	4106.7	4286.3	5476.1	6102.0	6619.8	6795.1	6002.6	5501.6	5796.7	5923.8
57.5°	3577.9	3668.5	4305.3	5785.0	6443.8	6966.7	6566.5	6040.6	6510.2	6668.0
60°	2976.9	3095.9	3610.8	5266.5	6204.9	6983.5	7064.5	6735.9	7283.6	7461.1
62.5°	2023.0	2152.3	2664.3	4375.4	5878.5	6975.4	7472.8	7451.6	8143.3	8333.9
65°	1253.3	1334.3	1671.7	3572.8	5422.0	6984.2	7900.0	8320.7	9050.3	9243.9
67.5°	990.3	1027.6	1203.6	2743.1	4635.4	6787.0	8326.6	9138.0	9904.1	10057.5
70°	665.3	688.0	875.7	1839.0	3448.6	5877.0	8318.5	9548.4	10343.8	10420.4
72.5°	350.6	368.1	512.0	851.6	2082.9	4177.5	7012.0	9057.6	9906.3	9790.9
75°	175.3	204.5	344.7	432.4	889.5	2329.8	4354.3	7141.2	7797.1	7350.1
77.5°	132.9	160.7	284.8	284.8	309.7	784.4	1844.1	3894.9	3592.5	2991.5
80°	84.7	109.6	249.0	215.4	129.3	199.4	480.6	1091.1	763.2	580.6
82.5°	49.7	71.6	207.4	142.4	72.3	73.8	135.8	232.2	197.9	154.1
85°	19.7	46.7	142.4	56.2	28.5	18.3	40.9	49.7	40.9	30.7
87.5°	0.0	11.0	24.8	0.0	2.2	1.5	2.9	3.7	3.7	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947178
 CATALOG NUMBER: GALN-SB2C-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1803.9	0°	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9	1803.9
1805.4	2.5°	1812.0	1813.4	1817.8	1818.5	1808.3	1795.2	1790.1	1787.9	1779.1	1778.4
1817.1	5°	1833.9	1840.4	1833.9	1814.9	1769.6	1706.1	1657.9	1618.4	1582.6	1571.7
1857.2	7.5°	1877.7	1884.3	1864.5	1790.1	1676.1	1549.8	1435.8	1355.5	1283.2	1256.2
1906.2	10°	1940.5	1949.3	1887.2	1736.7	1535.2	1332.1	1139.3	1003.5	897.6	854.5
1972.6	12.5°	2019.4	2023.0	1899.6	1655.7	1351.9	1061.9	788.8	643.4	549.2	514.2
2053.0	15°	2106.3	2101.2	1901.1	1545.4	1102.1	750.8	514.9	422.9	384.9	373.2
2133.3	17.5°	2197.6	2176.4	1871.9	1386.2	828.2	513.4	382.0	360.1	353.5	350.6
2212.9	20°	2287.4	2239.9	1818.5	1178.0	594.5	383.4	346.9	340.3	336.7	335.2
2293.3	22.5°	2369.2	2288.1	1727.2	936.3	431.6	338.9	327.9	322.1	315.5	312.6
2371.4	25°	2448.8	2315.9	1598.7	710.6	345.4	317.0	308.2	297.2	288.5	284.8
2455.4	27.5°	2526.2	2333.4	1438.0	525.8	308.2	296.5	280.4	265.1	258.5	257.1
2545.2	30°	2608.8	2339.3	1255.4	392.2	285.6	271.0	247.6	230.1	226.4	227.1
2666.5	32.5°	2709.5	2348.0	1071.4	321.3	266.6	240.3	212.5	194.3	191.3	194.3
2843.2	35°	2830.1	2365.6	893.9	295.8	249.8	208.9	178.9	163.6	160.7	162.9
3069.6	37.5°	2993.6	2394.0	728.1	290.7	235.9	182.6	150.4	138.0	138.0	138.8
3347.1	40°	3211.3	2470.0	579.9	287.0	228.6	162.9	127.1	122.0	124.2	125.6
3700.6	42.5°	3476.4	2631.4	479.8	282.6	220.6	154.1	115.4	113.2	116.9	118.3
4124.2	45°	3773.6	2835.9	444.8	275.3	213.3	159.9	110.3	107.4	111.7	112.5
4598.9	47.5°	4081.1	3036.0	440.4	267.3	206.0	168.7	108.8	102.2	107.4	108.1
5105.8	50°	4392.2	3166.7	444.8	254.9	194.3	168.7	109.6	97.1	101.5	103.7
5631.6	52.5°	4705.6	3226.6	441.9	227.9	173.8	158.5	109.6	92.8	97.1	98.6
6199.8	55°	5009.4	3214.9	397.3	187.7	147.5	140.2	106.6	89.1	92.0	92.8
6736.6	57.5°	5249.7	3052.1	314.8	146.1	119.8	116.9	97.1	84.7	86.9	86.2
7228.9	60°	5375.3	2694.2	224.9	112.5	94.2	92.0	85.4	78.9	80.3	76.7
7645.9	62.5°	5376.7	2221.0	150.4	89.1	75.2	73.0	73.0	70.8	69.4	62.1
7968.7	65°	5262.1	1695.8	100.1	70.8	60.6	57.0	61.3	60.6	55.5	45.3
8067.3	67.5°	5002.1	1111.6	76.0	55.5	46.7	44.6	48.9	51.1	47.5	38.0
7708.0	70°	4467.5	647.1	62.8	43.1	35.1	32.9	39.4	43.8	39.4	30.7
6588.4	72.5°	3710.8	349.1	51.1	32.1	24.1	21.9	31.4	35.8	31.4	22.6
4227.2	75°	2407.9	187.0	39.4	21.2	12.4	13.9	23.4	26.3	21.9	14.6
1240.8	77.5°	808.5	82.5	24.8	10.2	5.8	5.8	13.9	16.1	10.2	5.1
225.7	80°	180.4	34.3	10.2	4.4	2.2	2.2	2.9	2.9	1.5	0.0
69.4	82.5°	59.2	13.9	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17.5	85°	22.6	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	8.8	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

180°
1803.9
1779.8
1565.1
1245.2
836.2
503.2
373.2
349.8
333.8
311.9
283.4
255.6
227.1
193.5
162.1
138.0
125.6
118.3
113.2
108.8
104.4
98.6
92.8
86.2
76.0
59.9
43.8
37.2
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