

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: P947495

Luminaire Tested: **GALN-SB2D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947495
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-SB2D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA 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: 13631 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

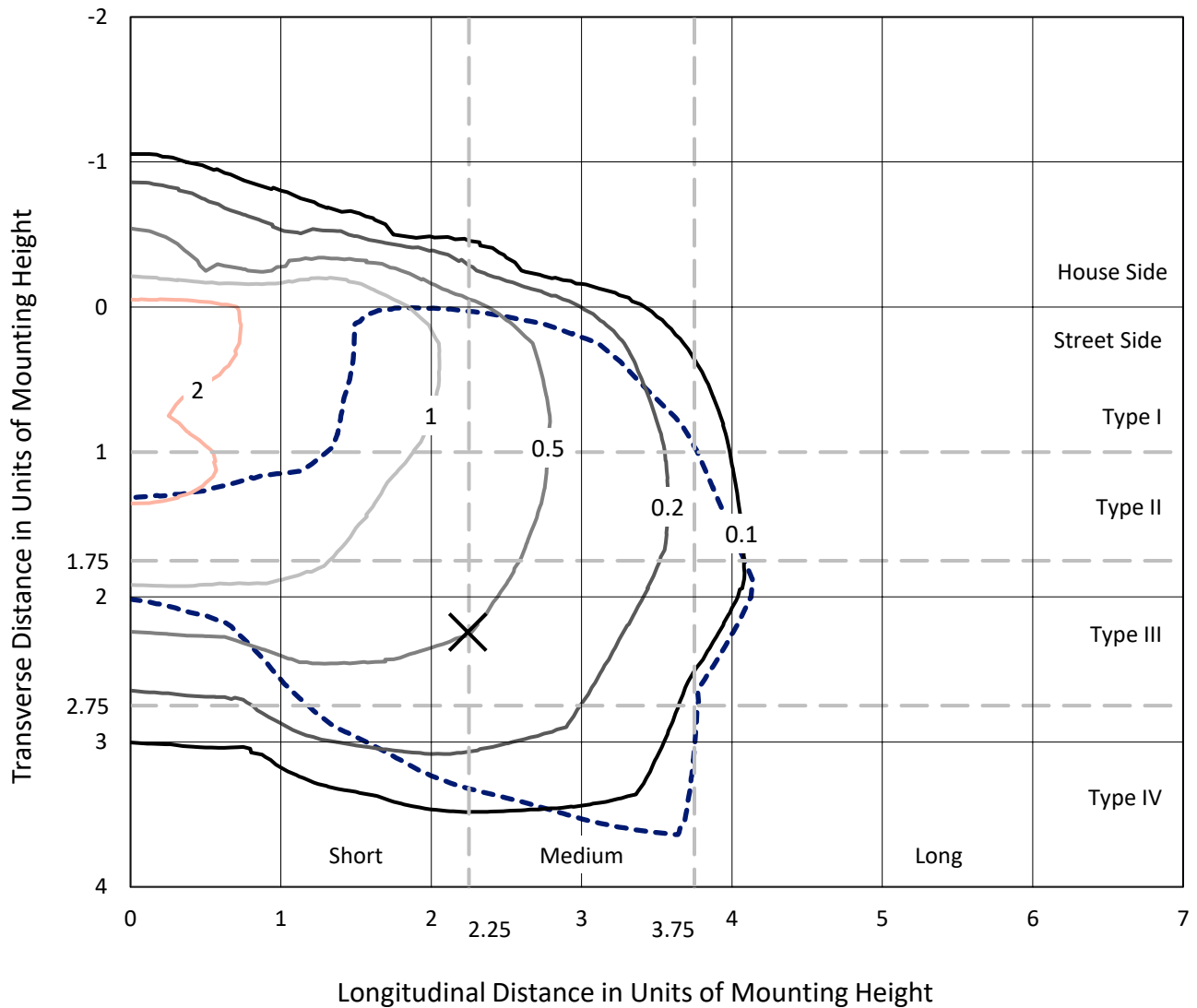
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

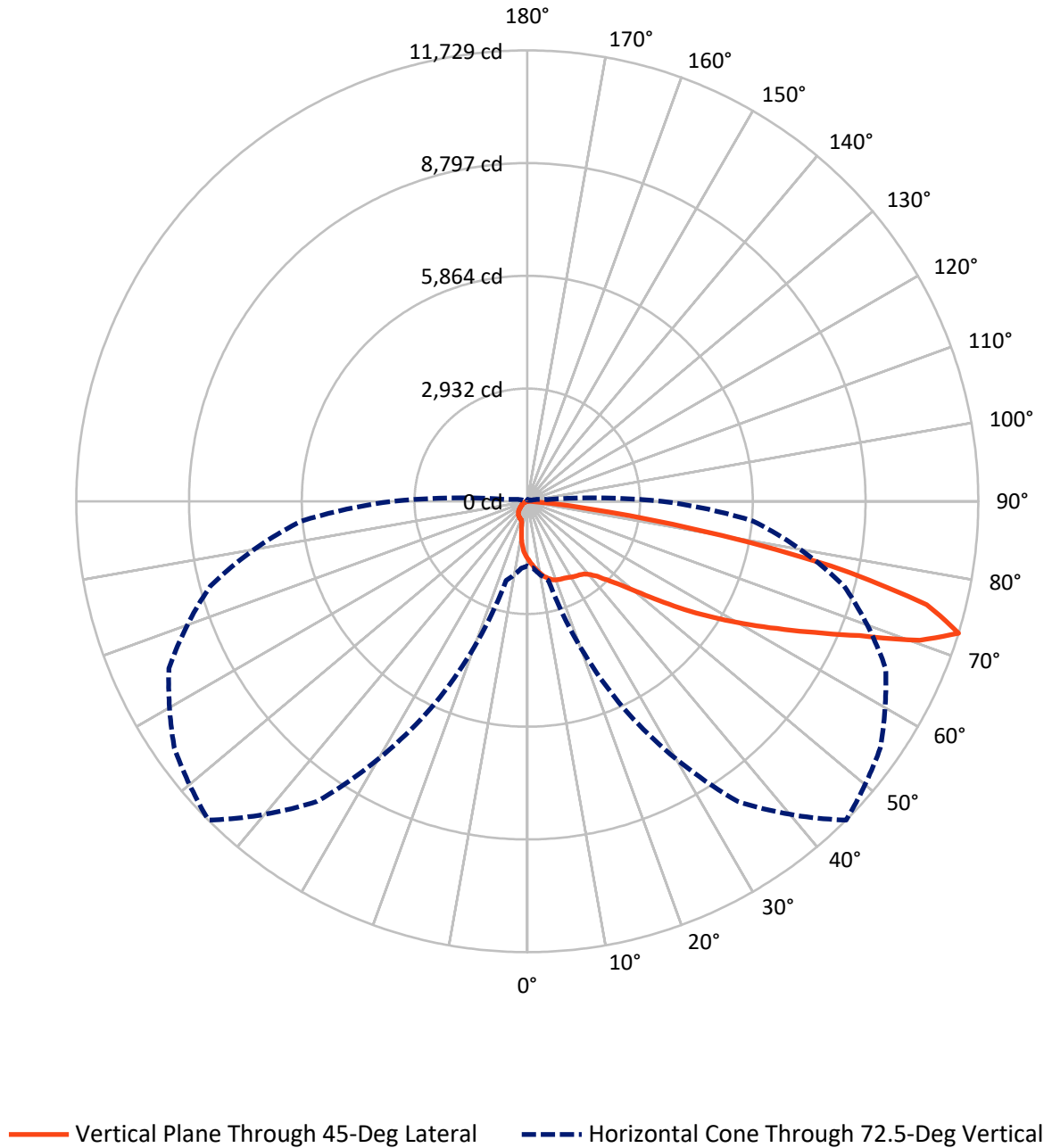
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1432.2	0.0	1432.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12198.7	0.0	12198.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	13631.0	0.0	13631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.0
10°-20°	411.2	3.0
20°-30°	675.3	5.0
30°-40°	957.7	7.0
40°-50°	1582.9	11.6
50°-60°	2843.6	20.9
60°-70°	3948.5	29.0
70°-80°	2864.1	21.0
80°-90°	207.1	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°	13631.0	100.0
0°-180°	13631.0	100.0

Coefficient of Utilization



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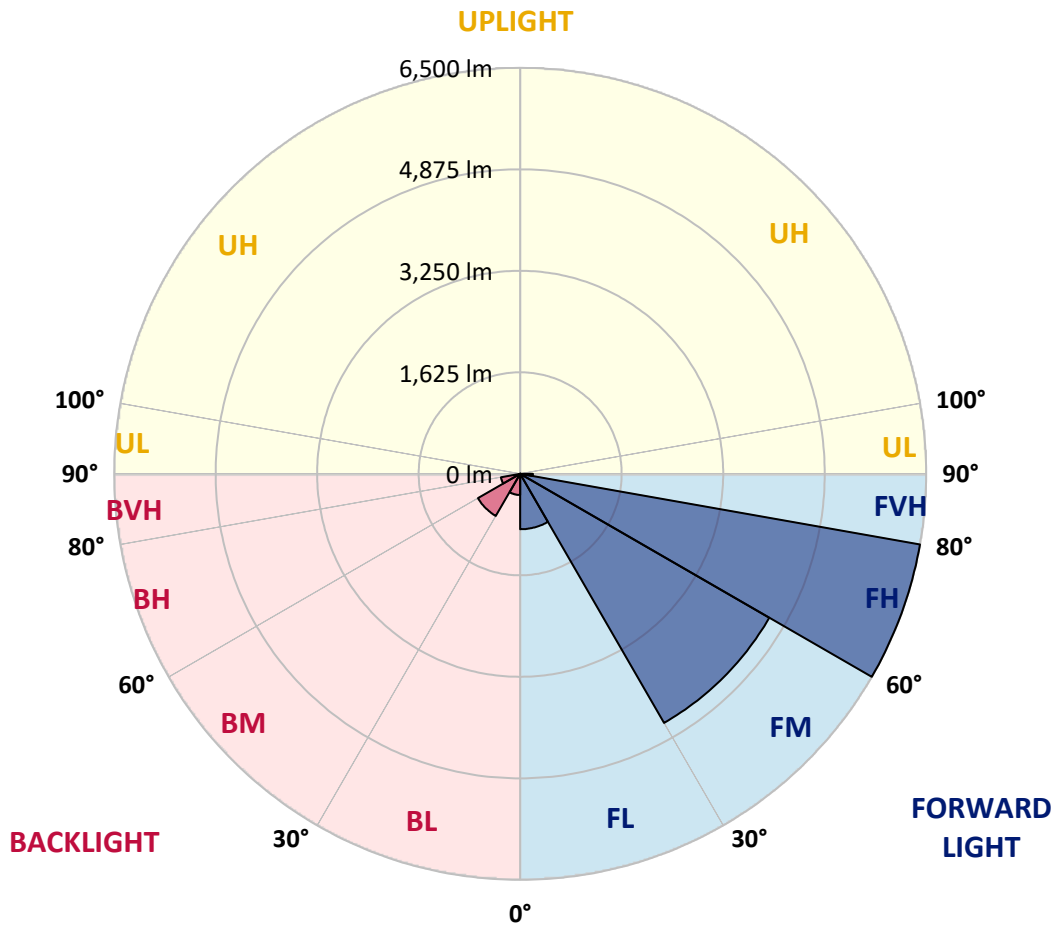
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.9	6.5			
FM (30°-60°)	4605.3	33.8			
FH (60°-80°)	6500.2	47.7			G3/7500
FVH (80°-90°)	205.3	1.5			G2/225
BL (0°-30°)	339.2	2.5	B1/500		
BM (30°-60°)	778.9	5.7	B1/1000		
BH (60°-80°)	312.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3
2.5°	1631.0	1633.8	1631.9	1620.8	1602.2	1591.9	1586.3	1567.7	1555.6	1534.2
5°	1780.8	1792.0	1785.5	1763.1	1727.8	1702.6	1695.2	1657.1	1622.6	1582.6
7.5°	1939.9	1945.5	1933.4	1904.5	1857.1	1814.3	1807.8	1754.7	1699.9	1638.4
10°	2077.6	2084.1	2065.5	2023.6	1969.7	1916.6	1907.3	1848.7	1783.6	1708.2
12.5°	2193.0	2199.5	2175.3	2125.1	2065.5	2010.6	2001.3	1939.9	1868.3	1784.5
15°	2280.4	2292.5	2260.0	2206.0	2141.8	2086.9	2082.3	2021.8	1952.0	1859.0
17.5°	2331.6	2343.7	2313.0	2247.9	2193.0	2146.5	2140.9	2090.6	2025.5	1936.2
20°	2340.0	2351.1	2318.6	2261.8	2216.2	2179.0	2176.2	2139.9	2092.5	2006.9
22.5°	2314.9	2328.8	2299.0	2253.4	2221.8	2202.3	2198.6	2178.1	2151.1	2078.5
25°	2288.8	2300.0	2277.6	2237.6	2220.9	2219.0	2221.8	2218.1	2212.5	2151.1
27.5°	2286.9	2299.0	2273.9	2235.8	2226.5	2246.0	2248.8	2266.5	2271.1	2217.2
30°	2302.8	2311.1	2286.9	2246.9	2242.3	2286.9	2287.9	2319.5	2327.0	2273.0
32.5°	2337.2	2346.5	2322.3	2263.7	2257.2	2319.5	2322.3	2364.2	2376.3	2332.5
35°	2418.1	2429.3	2401.4	2310.2	2286.9	2350.2	2358.6	2407.9	2432.1	2395.8
37.5°	2620.0	2587.5	2549.3	2404.2	2354.9	2398.6	2412.5	2470.2	2513.0	2471.2
40°	3121.5	3019.2	2900.1	2564.2	2474.0	2501.9	2513.0	2570.7	2629.3	2588.4
42.5°	3874.2	3753.3	3561.6	2932.6	2653.5	2667.5	2675.9	2726.1	2808.9	2776.3
45°	4545.0	4501.3	4305.9	3561.6	2989.4	2920.6	2930.8	2956.8	3078.7	3066.6
47.5°	5060.5	5035.4	4884.6	4283.6	3557.0	3230.4	3259.2	3271.3	3447.2	3490.0
50°	5456.8	5447.5	5312.6	4925.6	4298.5	3687.2	3697.4	3671.4	3934.7	4040.8
52.5°	5830.9	5862.5	5762.9	5522.0	5090.3	4285.5	4283.6	4160.8	4516.2	4676.2
55°	6168.6	6179.8	6190.0	6130.5	5886.7	4966.5	4948.8	4747.9	5190.7	5356.4
57.5°	6485.9	6490.5	6581.7	6703.6	6715.7	5697.8	5665.3	5424.3	5927.6	6045.8
60°	6698.9	6720.3	6912.9	7251.6	7399.5	6452.4	6434.7	6189.1	6677.5	6732.4
62.5°	6391.9	6522.2	7007.8	7679.6	8045.2	7288.8	7280.4	7049.7	7466.5	7421.9
65°	5174.0	5394.5	6248.6	7968.9	8678.8	8222.9	8235.0	7989.4	8276.9	8131.8
67.5°	3619.3	3851.9	4862.3	7992.2	9386.9	9319.9	9389.7	9004.5	9137.5	8811.9
70°	2502.8	2622.8	3280.6	7491.6	9938.6	10830.9	10829.0	10251.2	9993.5	9121.7
72.5°	1683.1	1745.4	2130.6	5943.4	9533.0	11728.7	11674.8	11204.0	10281.9	8530.9
75°	709.9	755.5	986.2	3340.2	7541.9	10730.4	10584.3	9901.4	9135.7	6717.5
77.5°	225.2	244.7	388.9	1195.6	4154.3	8065.7	7911.3	6183.5	6123.0	3369.9
80°	107.0	124.7	218.6	480.1	1634.7	4386.9	4365.5	2805.2	2634.0	909.9
82.5°	46.5	54.9	121.0	256.8	731.3	1564.9	1596.6	954.6	789.9	345.2
85°	14.9	19.5	55.8	118.2	308.9	388.9	384.3	227.0	318.2	187.9
87.5°	0.0	0.0	18.6	27.0	31.6	22.3	25.1	19.5	88.4	52.1
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°
1493.3	0°	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3	1493.3
1511.9	2.5°	1500.7	1485.9	1459.8	1435.6	1414.2	1392.8	1379.8	1361.2	1359.3	1359.3
1536.1	5°	1511.0	1486.8	1440.3	1391.0	1334.2	1280.2	1226.3	1174.2	1157.4	1145.3
1575.2	7.5°	1540.8	1502.6	1429.1	1335.1	1227.2	1109.0	1026.2	936.9	902.5	883.9
1627.3	10°	1583.6	1531.5	1419.8	1255.1	1080.2	919.2	801.1	704.3	667.1	651.3
1684.0	12.5°	1631.0	1566.8	1403.1	1155.6	919.2	726.6	611.3	566.6	561.0	561.0
1752.0	15°	1687.8	1609.6	1374.2	1038.3	750.8	575.0	534.1	535.9	541.5	545.2
1818.0	17.5°	1746.4	1655.2	1328.6	907.1	602.0	517.3	518.2	521.0	525.7	529.4
1889.7	20°	1809.6	1700.8	1268.1	767.6	516.4	500.6	503.4	506.1	509.9	511.7
1956.6	22.5°	1877.6	1743.6	1196.5	630.8	487.5	486.6	487.5	490.3	495.0	495.0
2034.8	25°	1950.1	1791.0	1114.6	531.3	472.6	472.6	474.5	476.4	480.1	480.1
2110.2	27.5°	2024.6	1834.8	1028.1	479.2	459.6	458.7	458.7	461.5	463.3	464.3
2184.6	30°	2106.4	1885.9	941.6	468.0	449.4	444.7	441.9	443.8	445.7	446.6
2262.8	32.5°	2190.2	1935.2	864.3	472.6	439.2	430.8	421.5	419.6	419.6	423.3
2343.7	35°	2283.2	1989.2	804.8	488.5	433.6	410.3	395.4	387.0	388.0	393.6
2440.5	37.5°	2394.9	2054.3	761.1	502.4	429.8	387.0	362.9	352.6	346.1	352.6
2573.5	40°	2540.9	2150.2	729.4	513.6	425.2	360.1	327.5	310.8	298.7	302.4
2780.1	42.5°	2755.9	2300.9	717.3	514.5	415.0	328.4	291.2	268.9	251.2	252.1
3090.8	45°	3057.3	2539.1	779.7	502.4	392.6	294.0	253.1	223.3	212.1	209.3
3555.1	47.5°	3470.4	2886.1	923.9	477.3	360.1	260.5	215.9	190.7	182.4	177.7
4164.5	50°	4024.0	3331.8	1083.9	449.4	327.5	228.9	185.2	169.3	163.8	159.1
4887.4	52.5°	4666.0	3784.0	1215.1	421.5	294.9	201.0	165.6	156.3	151.7	147.9
5585.2	55°	5254.9	4095.7	1207.7	391.7	263.3	178.6	151.7	146.1	140.5	136.8
6186.3	57.5°	5621.5	4139.4	995.5	359.1	227.0	161.0	138.6	134.9	128.4	123.7
6706.4	60°	5789.9	3890.0	697.8	316.3	190.7	144.2	124.7	122.8	114.4	107.9
7198.6	62.5°	5820.6	3426.7	465.2	263.3	159.1	128.4	110.7	107.9	96.8	85.6
7598.6	65°	5696.0	2764.2	321.9	205.6	135.8	111.6	94.9	89.3	77.2	66.1
7693.5	67.5°	5301.5	1940.8	224.2	147.9	115.4	88.4	75.4	73.5	64.2	54.9
7209.7	70°	4578.5	1106.3	149.8	110.7	91.2	60.5	59.5	61.4	52.1	44.7
5890.4	72.5°	3510.4	506.1	93.0	80.9	62.3	40.9	47.5	48.4	40.0	33.5
3675.1	75°	2066.4	216.8	58.6	52.1	31.6	27.0	34.4	35.4	27.0	21.4
1343.5	77.5°	703.4	81.9	37.2	30.7	15.8	14.9	22.3	22.3	14.9	8.4
269.8	80°	160.0	30.7	18.6	12.1	7.4	6.5	7.4	6.5	3.7	0.9
82.8	82.5°	45.6	12.1	7.4	4.7	2.8	2.8	0.9	0.0	0.0	0.0
28.8	85°	13.0	5.6	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	5.6	0.9	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°
1493.3
1364.0
1150.9
886.7
651.3
561.0
545.2
529.4
512.7
496.8
481.0
465.2
448.5
426.1
396.4
350.8
300.5
248.4
205.6
174.9
158.2
147.0
134.9
122.8
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