

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: P953144

Luminaire Tested: **GALN-SB6D-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953144  
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-SB6D-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

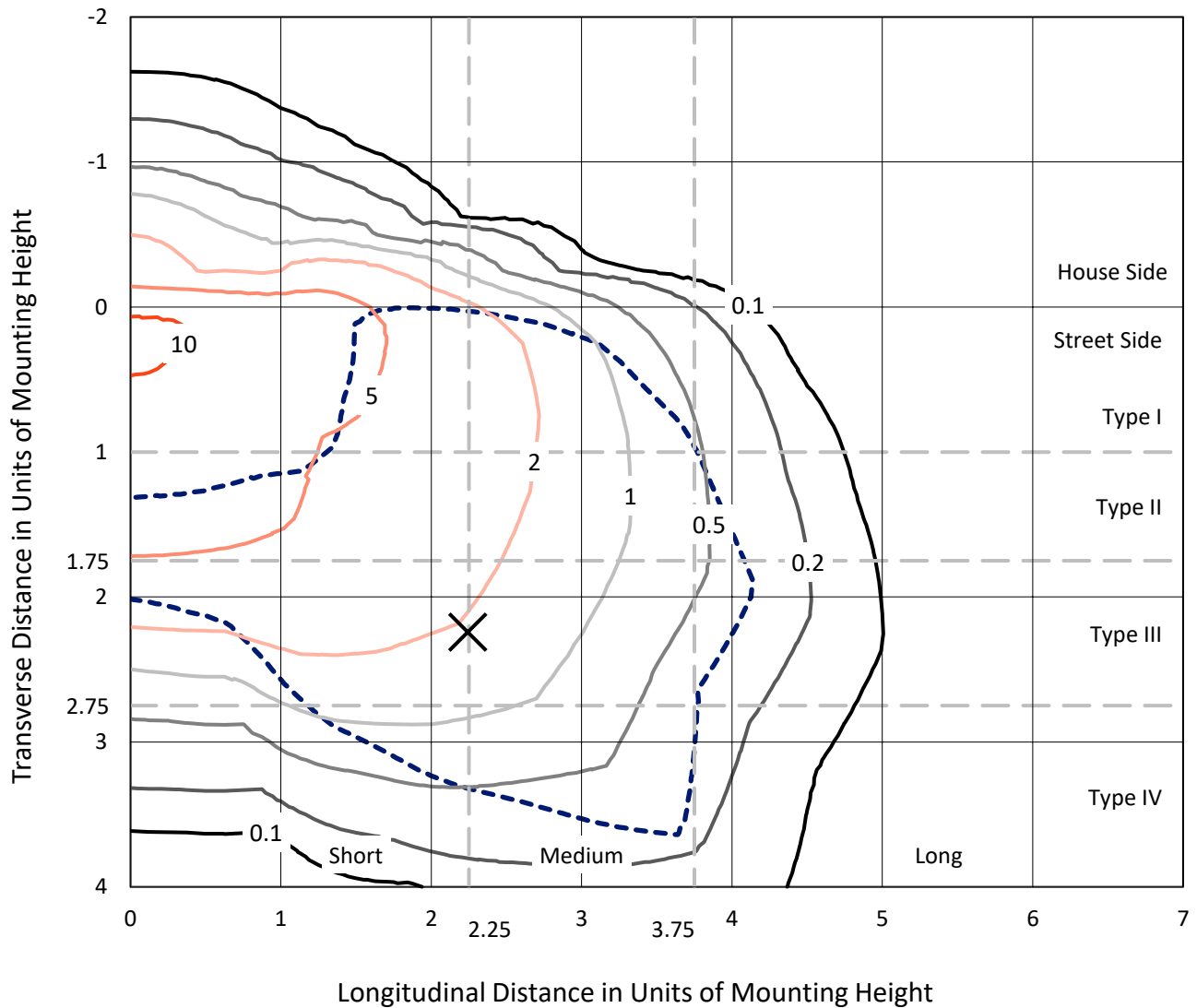
Lumens per Lamp: N/A  
Luminaire Lumens: 50289 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

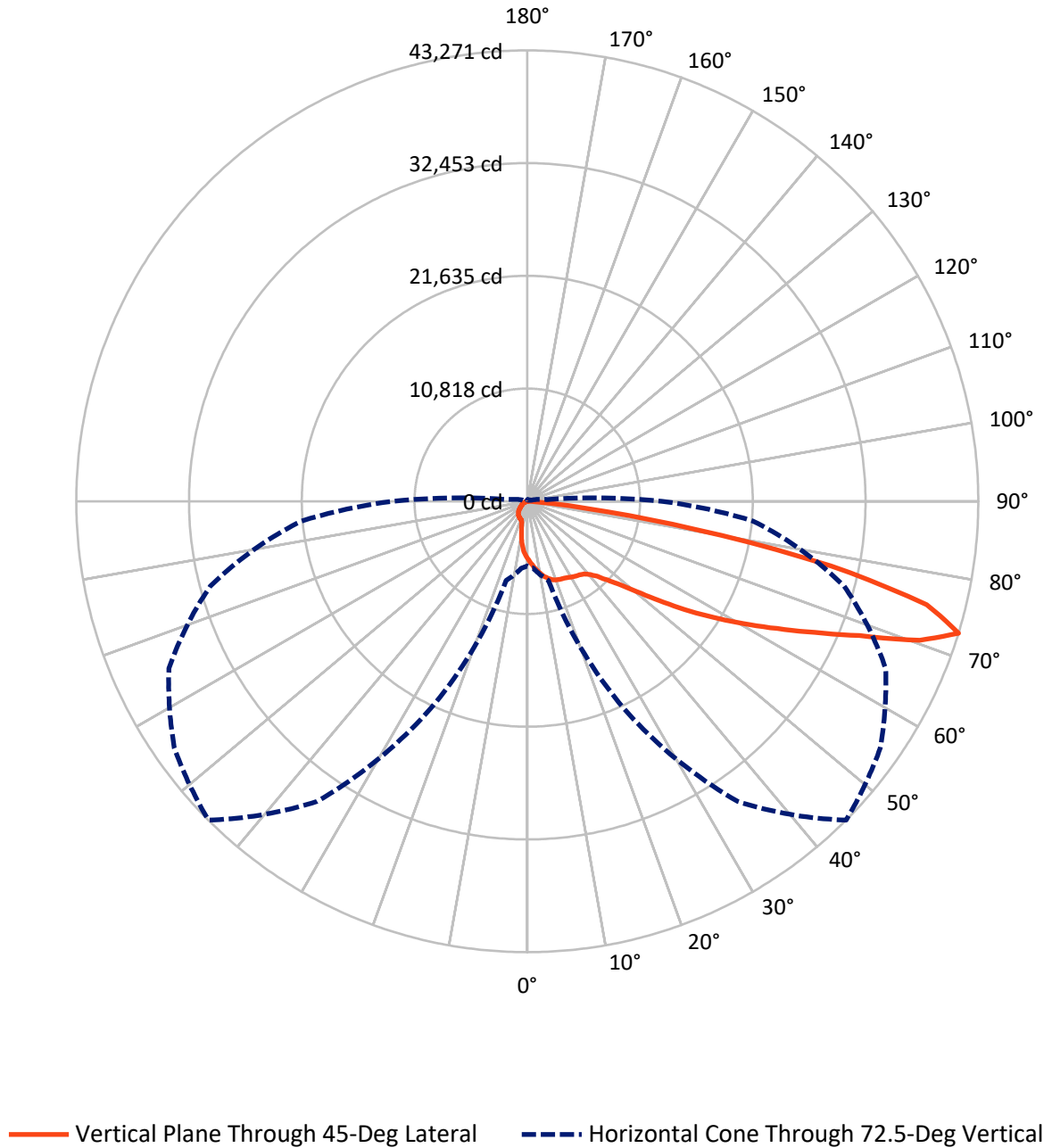
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5284.0	0.0	5284.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	45005.0	0.0	45005.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	50289.0	0.0	50289.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.1	1.0
10°-20°	1517.1	3.0
20°-30°	2491.3	5.0
30°-40°	3533.2	7.0
40°-50°	5840.0	11.6
50°-60°	10490.9	20.9
60°-70°	14567.1	29.0
70°-80°	10566.5	21.0
80°-90°	763.9	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°	50289.0	100.0
0°-180°	50289.0	100.0

**Coefficient of Utilization**



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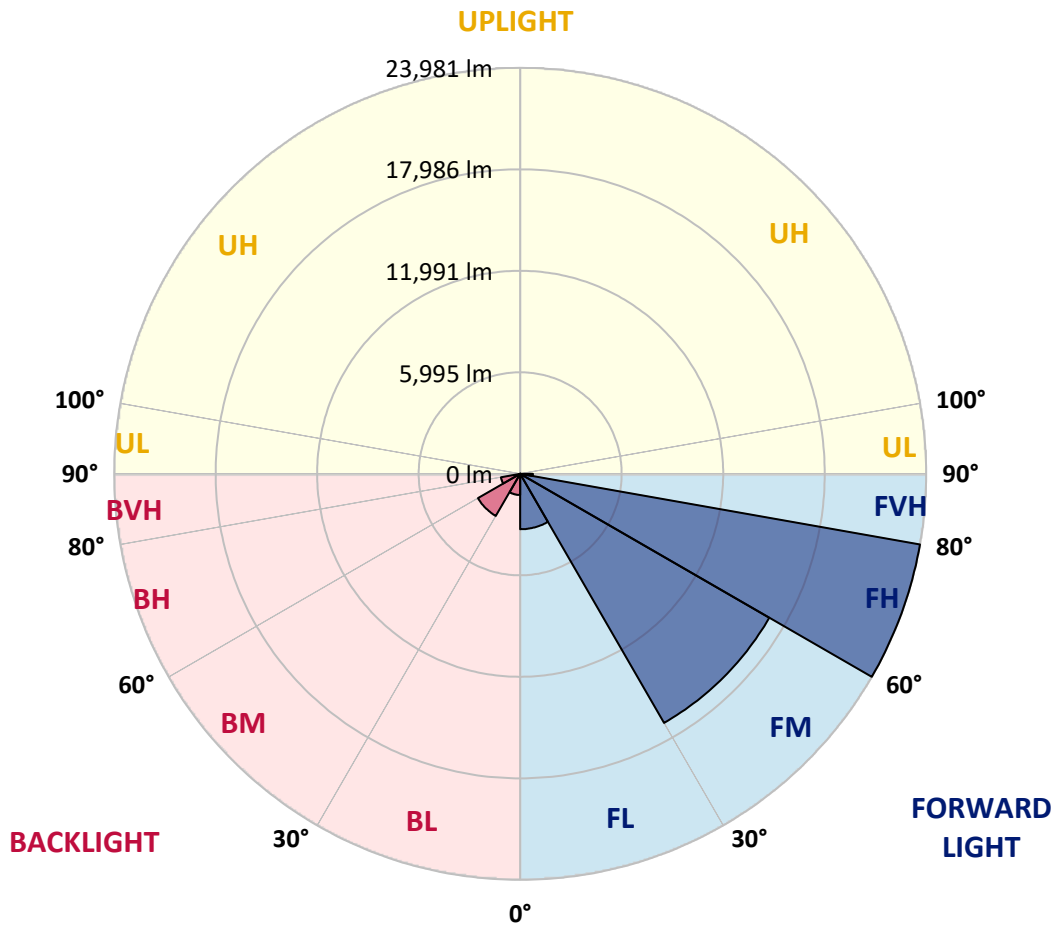
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3275.8	6.5			
FM (30°-60°)	16990.3	33.8			
FH (60°-80°)	23981.4	47.7			G5
FVH (80°-90°)	757.5	1.5			G5
BL (0°-30°)	1251.6	2.5	B3/2500		
BM (30°-60°)	2873.7	5.7	B3/5000		
BH (60°-80°)	1152.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3
2.5°	6017.3	6027.6	6020.7	5979.5	5910.9	5873.1	5852.5	5783.9	5739.2	5660.3
5°	6569.9	6611.1	6587.1	6504.7	6374.3	6281.6	6254.1	6113.4	5986.4	5838.8
7.5°	7156.9	7177.5	7132.9	7026.5	6851.4	6693.5	6669.5	6473.8	6271.3	6044.7
10°	7664.9	7688.9	7620.3	7465.8	7266.7	7071.1	7036.8	6820.5	6580.2	6302.2
12.5°	8090.6	8114.6	8025.3	7840.0	7620.3	7417.8	7383.4	7156.9	6892.6	6583.7
15°	8413.2	8457.8	8337.7	8138.6	7901.8	7699.2	7682.1	7459.0	7201.5	6858.3
17.5°	8602.0	8646.6	8533.4	8293.1	8090.6	7918.9	7898.3	7713.0	7472.7	7143.2
20°	8632.9	8674.1	8554.0	8344.6	8176.4	8039.1	8028.8	7894.9	7719.8	7404.0
22.5°	8540.2	8591.7	8481.9	8313.7	8197.0	8124.9	8111.2	8035.6	7936.1	7668.4
25°	8444.1	8485.3	8402.9	8255.3	8193.5	8186.7	8197.0	8183.2	8162.6	7936.1
27.5°	8437.2	8481.9	8389.2	8248.5	8214.1	8286.2	8296.5	8361.7	8378.9	8179.8
30°	8495.6	8526.5	8437.2	8289.6	8272.5	8437.2	8440.7	8557.4	8584.8	8385.8
32.5°	8622.6	8656.9	8567.7	8351.4	8327.4	8557.4	8567.7	8722.1	8766.8	8605.4
35°	8921.2	8962.4	8859.5	8523.1	8437.2	8670.7	8701.6	8883.5	8972.7	8838.9
37.5°	9666.1	9546.0	9405.2	8869.7	8687.8	8849.2	8900.6	9113.5	9271.4	9116.9
40°	11516.3	11138.7	10699.3	9460.1	9127.2	9230.2	9271.4	9484.2	9700.4	9549.4
42.5°	14293.2	13847.0	13139.9	10819.4	9789.7	9841.2	9872.1	10057.4	10362.9	10242.8
45°	16768.1	16606.7	15885.9	13139.9	11028.8	10774.8	10812.6	10908.7	11358.4	11313.7
47.5°	18669.7	18577.0	18021.0	15803.5	13122.7	11917.9	12024.3	12068.9	12717.7	12875.6
50°	20132.0	20097.7	19599.9	18172.0	15858.5	13603.3	13641.0	13544.9	14516.3	14907.6
52.5°	21511.9	21628.6	21261.3	20372.3	18779.6	15810.4	15803.5	15350.4	16661.7	17252.1
55°	22757.9	22799.1	22836.9	22617.2	21717.8	18323.0	18257.8	17516.4	19150.3	19761.3
57.5°	23928.4	23945.6	24282.0	24731.6	24776.3	21021.0	20900.9	20011.9	21868.9	22304.8
60°	24714.5	24793.4	25504.0	26753.4	27299.2	23804.8	23739.6	22833.4	24635.5	24838.0
62.5°	23581.7	24062.3	25854.1	28332.4	29681.4	26890.7	26859.8	26008.5	27546.3	27381.6
65°	19088.5	19902.0	23053.1	29399.9	32019.0	30337.0	30381.6	29475.4	30536.1	30000.6
67.5°	13352.7	14210.8	17938.6	29485.7	34631.1	34384.0	34641.4	33220.4	33711.2	32509.8
70°	9233.6	9676.4	12103.2	27639.0	36666.7	39958.5	39951.6	37820.0	36869.2	33652.9
72.5°	6209.5	6439.5	7860.6	21927.2	35170.1	43270.9	43071.8	41334.9	37933.3	31473.2
75°	2619.0	2787.2	3638.5	12322.9	27824.4	39587.8	39048.9	36529.4	33704.4	24783.1
77.5°	830.7	902.8	1434.8	4410.8	15326.4	29756.9	29187.1	22812.8	22589.7	12432.8
80°	394.7	460.0	806.7	1771.2	6031.0	16184.5	16105.6	10349.2	9717.6	3357.0
82.5°	171.6	202.5	446.2	947.4	2698.0	5773.6	5890.3	3521.8	2914.2	1273.5
85°	54.9	72.1	206.0	435.9	1139.6	1434.8	1417.6	837.5	1173.9	693.4
87.5°	0.0	0.0	68.7	99.5	116.7	82.4	92.7	72.1	326.1	192.2
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°
5509.3	0°	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3	5509.3
5577.9	2.5°	5536.7	5481.8	5385.7	5296.4	5217.5	5138.5	5090.5	5021.8	5015.0	5015.0
5667.2	5°	5574.5	5485.2	5313.6	5131.7	4922.3	4723.2	4524.1	4331.9	4270.1	4225.5
5811.3	7.5°	5684.3	5543.6	5272.4	4925.7	4527.6	4091.6	3786.1	3456.6	3329.6	3260.9
6003.6	10°	5842.2	5650.0	5238.1	4630.5	3985.2	3391.4	2955.4	2598.5	2461.1	2402.8
6212.9	12.5°	6017.3	5780.4	5176.3	4263.2	3391.4	2680.8	2255.2	2090.4	2069.8	2069.8
6463.5	15°	6226.7	5938.3	5069.9	3830.7	2770.1	2121.3	1970.3	1977.2	1997.8	2011.5
6707.2	17.5°	6442.9	6106.5	4901.7	3346.8	2220.9	1908.5	1911.9	1922.2	1939.4	1953.1
6971.5	20°	6676.3	6274.7	4678.6	2831.9	1905.1	1846.7	1857.0	1867.3	1881.0	1887.9
7218.7	22.5°	6926.9	6432.6	4414.3	2327.3	1798.7	1795.2	1798.7	1809.0	1826.1	1826.1
7507.0	25°	7194.7	6607.7	4112.2	1960.0	1743.7	1743.7	1750.6	1757.5	1771.2	1771.2
7785.1	27.5°	7469.3	6769.0	3793.0	1767.8	1695.7	1692.3	1692.3	1702.6	1709.4	1712.8
8059.7	30°	7771.3	6957.8	3473.8	1726.6	1657.9	1640.8	1630.5	1637.3	1644.2	1647.6
8348.0	32.5°	8080.3	7139.7	3188.9	1743.7	1620.2	1589.3	1555.0	1548.1	1548.1	1561.8
8646.6	35°	8423.5	7338.8	2969.2	1802.1	1599.6	1513.8	1458.8	1427.9	1431.4	1452.0
9003.6	37.5°	8835.4	7579.1	2807.8	1853.6	1585.8	1427.9	1338.7	1300.9	1276.9	1300.9
9494.5	40°	9374.3	7932.7	2691.1	1894.8	1568.7	1328.4	1208.3	1146.5	1101.9	1115.6
10256.5	42.5°	10167.3	8488.7	2646.5	1898.2	1530.9	1211.7	1074.4	992.0	926.8	930.2
11403.0	45°	11279.4	9367.5	2876.5	1853.6	1448.5	1084.7	933.7	823.8	782.6	772.3
13115.8	47.5°	12803.5	10647.8	3408.5	1760.9	1328.4	961.1	796.4	703.7	672.8	655.6
15364.2	50°	14845.8	12292.0	3998.9	1657.9	1208.3	844.4	683.1	624.7	604.1	587.0
18031.3	52.5°	17214.3	13960.2	4482.9	1555.0	1088.1	741.4	611.0	576.7	559.5	545.8
20605.7	55°	19387.1	15110.2	4455.5	1445.1	971.4	659.1	559.5	538.9	518.3	504.6
22823.1	57.5°	20739.6	15271.5	3672.8	1325.0	837.5	593.8	511.5	497.7	473.7	456.5
24741.9	60°	21360.9	14351.6	2574.4	1167.1	703.7	532.0	460.0	453.1	422.2	398.2
26557.8	62.5°	21474.1	12642.1	1716.3	971.4	587.0	473.7	408.5	398.2	357.0	315.8
28033.8	65°	21014.2	10198.2	1187.7	758.6	501.2	411.9	350.1	329.5	284.9	243.7
28383.9	67.5°	19558.8	7160.3	827.2	545.8	425.6	326.1	278.0	271.2	236.8	202.5
26598.9	70°	16891.7	4081.3	552.6	408.5	336.4	223.1	219.7	226.5	192.2	164.8
21731.6	72.5°	12951.1	1867.3	343.3	298.6	230.0	151.0	175.1	178.5	147.6	123.6
13558.6	75°	7623.7	799.8	216.3	192.2	116.7	99.5	127.0	130.4	99.5	78.9
4956.6	77.5°	2595.0	302.1	137.3	113.3	58.4	54.9	82.4	82.4	54.9	30.9
995.4	80°	590.4	113.3	68.7	44.6	27.5	24.0	27.5	24.0	13.7	3.4
305.5	82.5°	168.2	44.6	27.5	17.2	10.3	10.3	3.4	0.0	0.0	0.0
106.4	85°	48.1	20.6	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
37.8	87.5°	20.6	3.4	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>
5509.3
5032.1
4246.1
3271.2
2402.8
2069.8
2011.5
1953.1
1891.3
1833.0
1774.6
1716.3
1654.5
1572.1
1462.3
1294.1
1108.7
916.5
758.6
645.3
583.5
542.3
497.7
453.1
391.3
295.2
230.0
192.2
151.0
109.8
68.7
24.0
0.0
0.0
0.0
0.0
0.0

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