

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: P952839

Luminaire Tested: **GALN-SB6C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38596 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

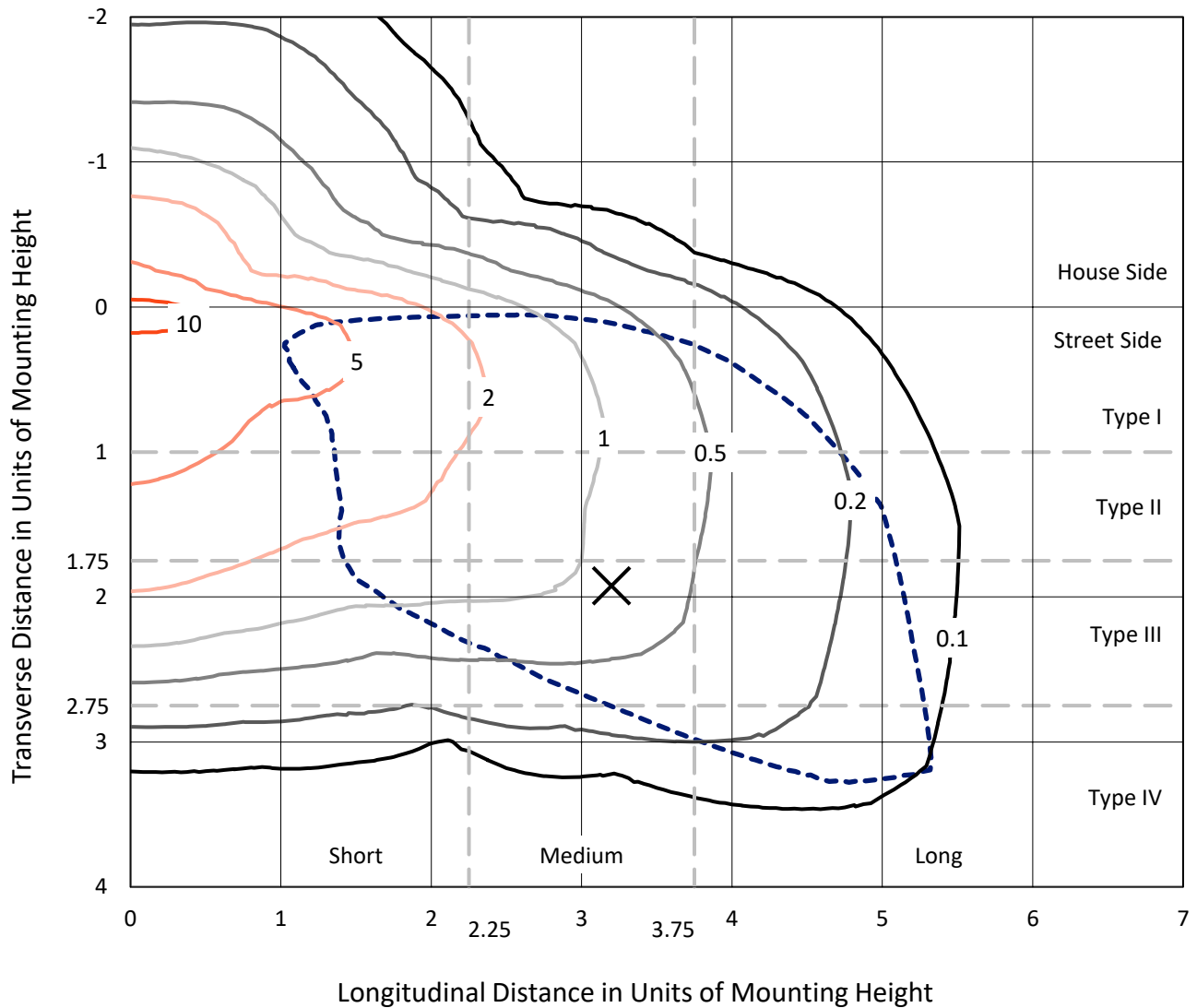
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

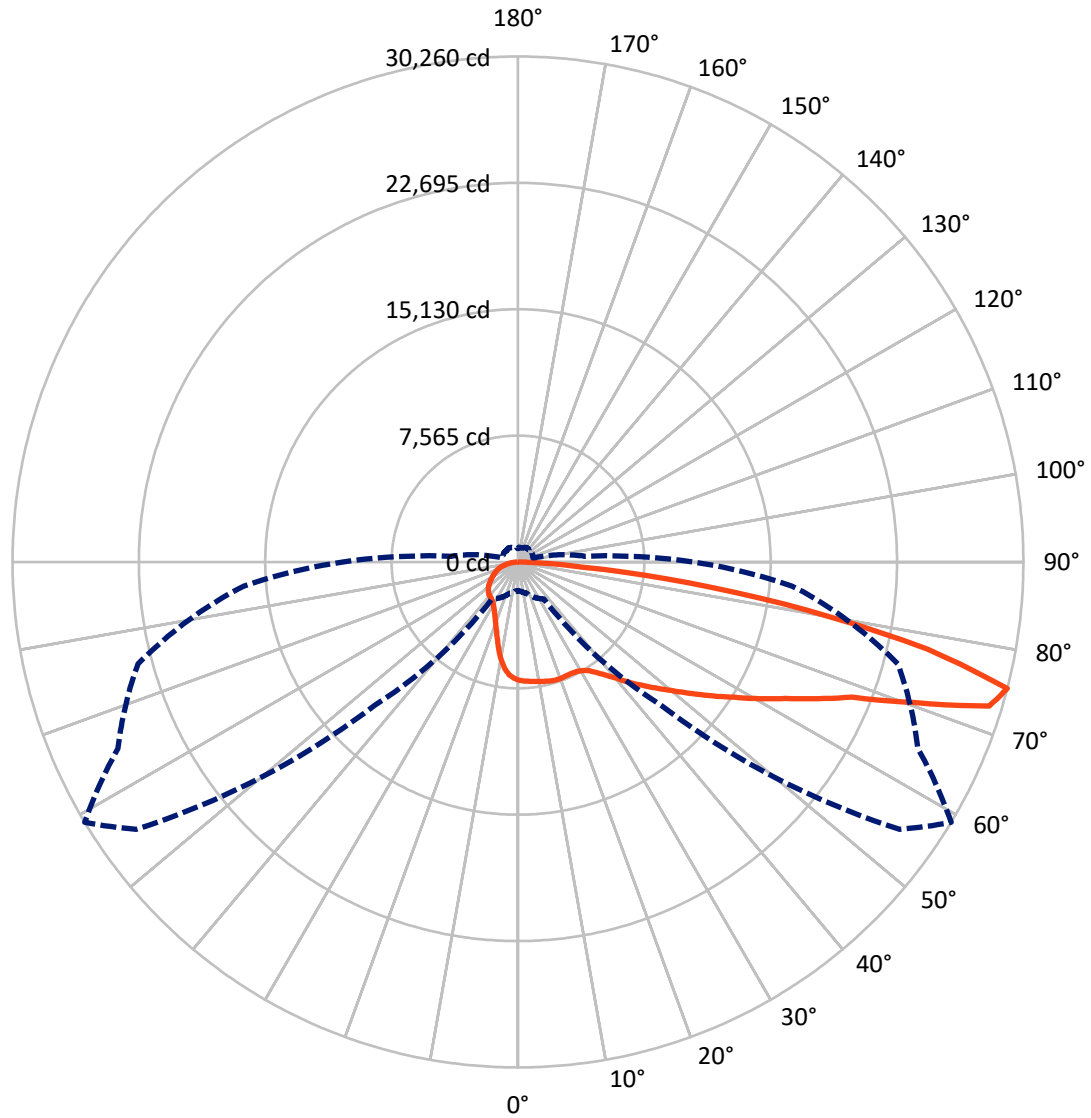
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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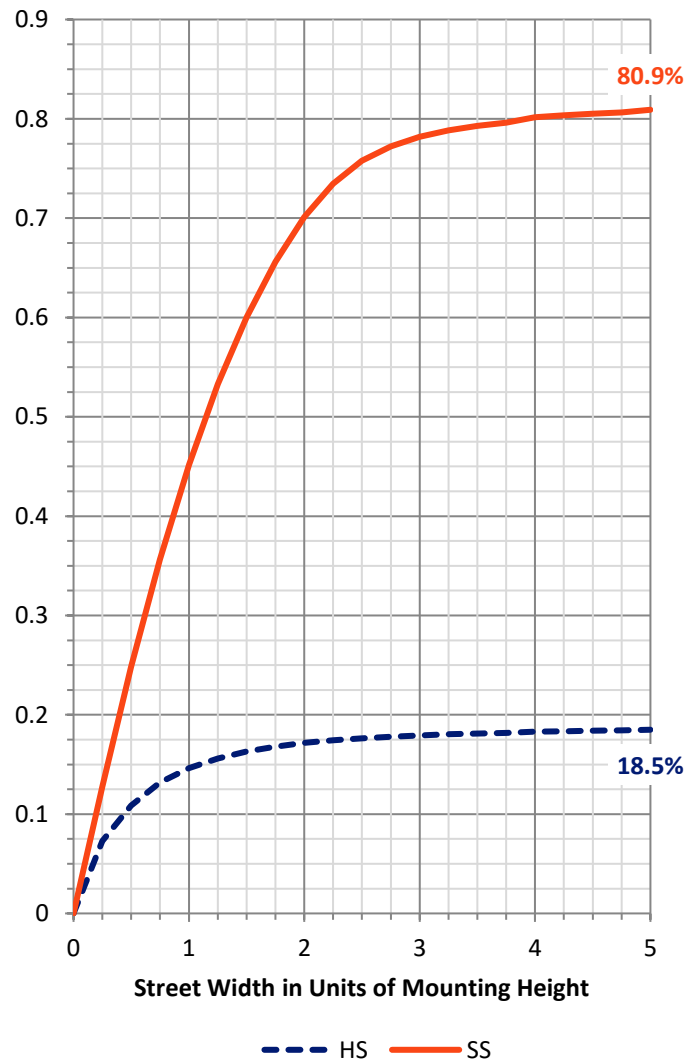
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7238.9	0.0	7238.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31357.0	0.0	31357.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	38596.0	0.0	38596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.2	1.6
10°-20°	1623.6	4.2
20°-30°	2466.2	6.4
30°-40°	3665.9	9.5
40°-50°	5451.9	14.1
50°-60°	7400.3	19.2
60°-70°	9034.5	23.4
70°-80°	7090.2	18.4
80°-90°	1228.2	3.2
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°	38596.0	100.0
0°-180°	38596.0	100.0

Coefficient of Utilization



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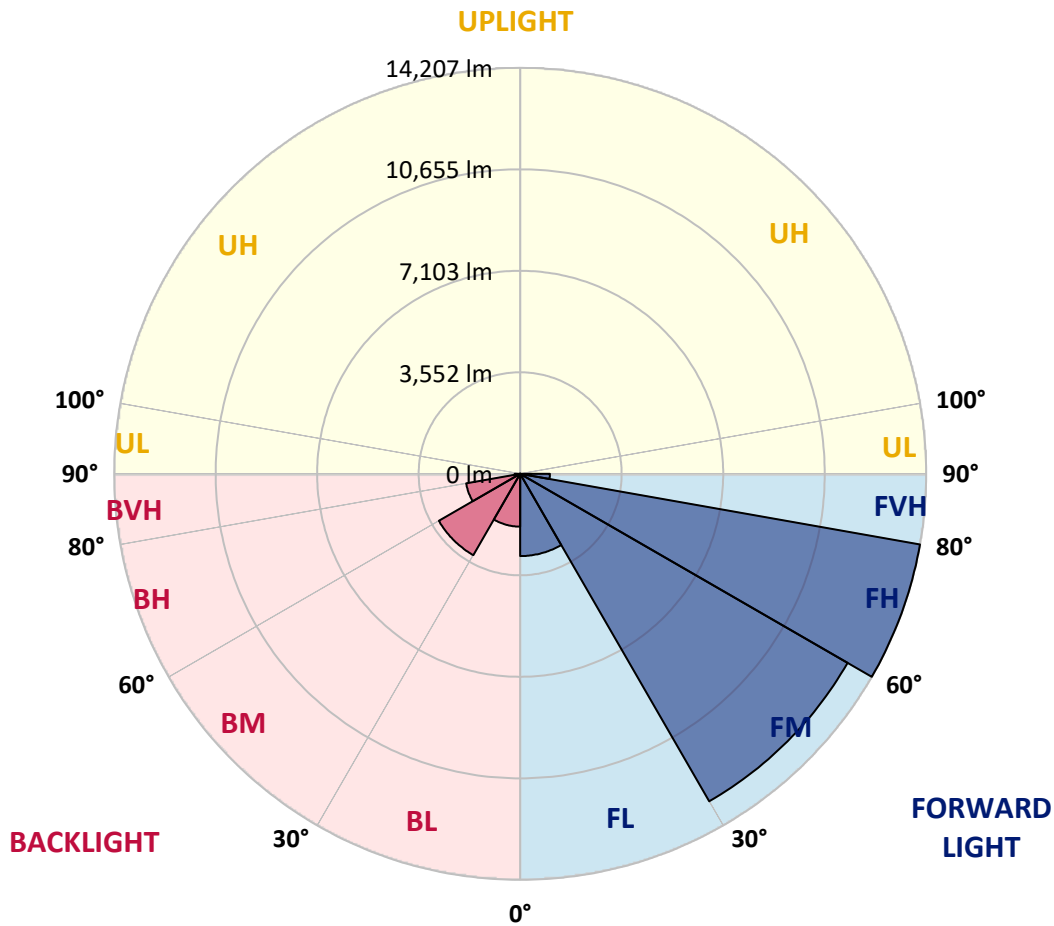
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2877.7	7.5			
FM (30°-60°)	13232.3	34.3			
FH (60°-80°)	14206.8	36.8			G5
FVH (80°-90°)	1040.2	2.7			G5
BL (0°-30°)	1847.3	4.8	B3/2500		
BM (30°-60°)	3285.8	8.5	B3/5000		
BH (60°-80°)	1917.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	188.0	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2
2.5°	7144.4	7119.5	7144.4	7134.0	7129.9	7121.6	7123.7	7138.2	7129.9	7140.3
5°	7096.7	7082.1	7107.0	7100.8	7127.8	7132.0	7159.0	7175.6	7185.9	7188.0
7.5°	7017.8	7003.2	7038.5	7067.6	7125.7	7142.3	7198.4	7225.4	7239.9	7264.8
10°	6729.2	6722.9	6810.1	6920.2	7057.2	7142.3	7227.5	7273.1	7296.0	7362.4
12.5°	6218.4	6226.7	6340.9	6552.7	6826.8	7100.8	7260.7	7327.1	7362.4	7445.5
15°	5730.5	5728.4	5853.0	6079.3	6463.4	6918.1	7277.3	7391.5	7451.7	7574.2
17.5°	5448.1	5439.8	5527.0	5699.3	6056.5	6637.8	7235.8	7426.8	7555.5	7709.2
20°	5396.2	5379.6	5425.3	5510.4	5763.7	6330.5	7127.8	7426.8	7638.6	7837.9
22.5°	5585.1	5558.2	5539.5	5529.1	5641.2	6077.2	7005.3	7401.9	7761.1	8022.7
25°	5965.1	5923.6	5828.1	5734.6	5701.4	5963.0	6897.3	7395.6	7943.8	8271.8
27.5°	6579.7	6527.8	6334.7	6110.4	5909.0	6021.2	6849.6	7433.0	8145.2	8535.5
30°	7341.7	7285.6	7042.7	6698.0	6336.8	6237.1	6909.8	7543.1	8402.6	8886.4
32.5°	8024.8	7962.5	7754.8	7404.0	6916.0	6610.8	7100.8	7752.8	8807.5	9374.3
35°	8631.0	8558.4	8371.5	8047.6	7626.1	7136.1	7445.5	8124.4	9382.6	10167.5
37.5°	9224.8	9139.7	8936.2	8593.7	8298.8	7835.8	7920.9	8602.0	10146.7	11130.8
40°	9889.2	9766.7	9519.7	9181.2	8894.7	8655.9	8545.9	9187.5	10923.2	12206.4
42.5°	10532.9	10416.6	10121.8	9833.2	9474.0	9405.5	9270.5	9872.6	11772.4	13387.7
45°	11226.4	11087.2	10730.1	10364.7	10138.4	9903.8	9972.3	10557.8	12605.0	14592.0
47.5°	11876.2	11720.5	11299.0	10892.1	10767.5	10323.2	10615.9	11311.5	13470.8	15812.8
50°	12227.1	12073.5	11722.6	11355.1	11257.5	10840.2	11313.6	12139.9	14378.1	17029.5
52.5°	12519.9	12353.8	11894.9	11691.4	11662.4	11402.8	12173.1	13086.7	15285.4	18105.0
55°	12831.3	12646.5	12061.0	11878.3	12011.2	12034.0	13192.6	14160.1	16244.7	19153.5
57.5°	13190.5	12955.9	12220.9	12036.1	12351.7	12773.2	14363.6	15273.0	17187.3	20125.2
60°	13528.9	13292.2	12528.2	12287.3	12719.2	13630.7	15706.9	16620.5	18254.5	20991.0
62.5°	13595.4	13400.2	12773.2	12771.1	13217.5	14631.4	17297.3	17980.4	19186.7	21846.4
65°	12445.1	12322.6	11951.0	12752.4	13931.7	16072.4	19068.4	19720.3	20372.3	22593.9
67.5°	9471.9	9488.5	9461.5	11008.3	13354.5	18142.4	21632.6	21582.8	21836.1	23432.7
70°	4331.1	4428.7	5064.0	7599.1	10699.0	18381.2	25872.3	25226.6	23673.6	24518.6
72.5°	2339.9	2414.7	2674.2	3681.2	6432.3	16342.3	29040.7	29499.5	26117.3	25249.4
75°	1717.1	1758.6	1939.2	2339.9	2701.2	12146.1	27905.0	30259.5	26422.5	23544.8
77.5°	1285.2	1303.9	1451.3	1854.1	1382.8	6403.2	22297.0	25060.5	22618.8	19344.5
80°	932.2	953.0	1063.0	1391.1	969.6	2342.0	15310.4	17590.1	15491.0	12330.9
82.5°	643.6	651.9	699.7	946.8	676.9	909.4	8687.1	10314.9	8647.6	4326.9
85°	388.3	398.6	419.4	552.3	384.1	431.9	3749.7	3878.5	2584.9	1034.0
87.5°	159.9	170.3	186.9	232.5	151.6	120.4	618.7	776.5	483.8	303.1
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°
7084.2	0°	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2	7084.2
7105.0	2.5°	7094.6	7080.1	7040.6	6986.6	6936.8	6874.5	6847.5	6824.7	6803.9	6764.5
7161.0	5°	7138.2	7098.7	6992.9	6855.8	6700.1	6529.8	6363.7	6249.6	6152.0	6079.3
7225.4	7.5°	7204.6	7129.9	6936.8	6656.5	6299.4	5934.0	5603.8	5369.2	5192.7	5128.4
7316.8	10°	7273.1	7183.9	6847.5	6353.4	5736.7	5174.0	4736.0	4495.1	4353.9	4308.2
7424.7	12.5°	7354.1	7223.3	6708.4	5931.9	5107.6	4491.0	4108.9	3967.7	3895.1	3870.2
7557.6	15°	7472.5	7256.5	6498.7	5404.5	4507.6	3992.7	3745.6	3648.0	3610.6	3608.5
7694.6	17.5°	7561.8	7262.8	6172.7	4839.8	4046.6	3691.6	3488.1	3450.7	3475.7	3513.0
7829.6	20°	7661.4	7206.7	5745.0	4324.9	3722.7	3427.9	3342.8	3367.7	3427.9	3481.9
8008.1	22.5°	7732.0	7105.0	5228.0	3924.1	3442.4	3276.3	3272.2	3324.1	3357.3	3384.3
8217.8	25°	7794.3	6932.6	4679.9	3587.8	3212.0	3185.0	3230.7	3214.1	3191.2	3214.1
8427.6	27.5°	7840.0	6660.7	4189.9	3293.0	3050.0	3122.7	3095.7	3058.3	3056.3	3068.7
8674.6	30°	7825.4	6297.3	3787.1	3012.7	2935.8	3006.4	2942.1	2935.8	2929.6	2935.8
9046.3	32.5°	7825.4	5884.1	3477.7	2819.6	2863.2	2836.2	2829.9	2815.4	2790.5	2788.4
9550.8	35°	7869.0	5471.0	3212.0	2715.8	2803.0	2738.6	2742.7	2707.4	2655.5	2630.6
10219.4	37.5°	7958.3	5138.8	2948.3	2665.9	2697.1	2695.0	2678.4	2618.2	2526.8	2447.9
11054.0	40°	8174.2	5041.2	2767.7	2643.1	2647.2	2672.2	2628.5	2512.3	2304.7	2175.9
11901.1	42.5°	8512.7	5205.2	2728.2	2587.0	2614.0	2638.9	2553.8	2283.9	2136.5	2059.7
12789.8	45°	8942.5	5491.7	2813.3	2506.0	2535.1	2578.7	2325.4	2196.7	2130.2	2132.3
13670.1	47.5°	9486.4	5792.8	2971.1	2435.5	2420.9	2445.8	2173.8	2094.9	2003.6	2026.4
14515.2	50°	10115.6	6098.0	3120.6	2339.9	2294.3	2213.3	2076.3	2001.5	1885.2	1831.3
15331.1	52.5°	10796.6	6392.8	3180.8	2223.7	2157.2	2063.8	2009.8	1918.5	1777.3	1688.0
16101.4	55°	11442.3	6660.7	3114.4	2084.6	2020.2	1947.5	1939.2	1883.2	1731.6	1607.0
16786.6	57.5°	12052.7	6884.9	2948.3	1943.4	1881.1	1837.5	1893.6	1866.6	1675.5	1515.7
17434.4	60°	12569.7	7038.5	2707.4	1800.1	1756.5	1733.7	1818.8	1810.5	1596.6	1418.1
18015.7	62.5°	12980.8	7098.7	2441.7	1663.1	1652.7	1611.2	1715.0	1715.0	1497.0	1322.6
18526.5	65°	13302.6	7040.6	2171.8	1528.1	1548.9	1486.6	1588.3	1575.9	1391.1	1237.5
19114.1	67.5°	13587.1	6849.6	1872.8	1395.2	1443.0	1364.1	1455.5	1426.4	1274.8	1152.3
19622.8	70°	13713.7	6405.3	1532.3	1262.4	1320.5	1243.7	1322.6	1268.6	1144.0	1061.0
19064.2	72.5°	12696.3	5323.5	1206.3	1123.3	1173.1	1110.8	1179.3	1117.0	1002.8	965.5
16462.7	75°	10503.8	3994.7	928.1	971.7	1009.1	961.3	1007.0	961.3	857.5	884.5
12160.7	77.5°	7628.2	2697.1	710.1	811.8	828.4	803.5	843.0	791.1	697.6	691.4
6060.6	80°	3793.3	1580.0	556.4	641.6	635.3	618.7	664.4	639.5	560.6	593.8
1636.1	82.5°	1098.3	676.9	404.9	450.5	438.1	442.2	475.5	487.9	730.8	724.6
508.7	85°	344.7	265.8	242.9	251.2	238.8	245.0	280.3	556.4	514.9	301.1
157.8	87.5°	89.3	91.4	60.2	64.4	66.4	78.9	89.3	338.4	161.9	105.9
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>
7084.2
6745.8
6019.1
5016.3
4237.7
3876.4
3616.9
3527.6
3500.6
3398.8
3228.6
3089.5
2958.7
2815.4
2655.5
2474.9
2192.5
2059.7
2142.7
2084.6
1845.8
1685.9
1607.0
1507.4
1411.9
1316.4
1229.1
1144.0
1044.4
934.3
<i>807.7</i>
660.3
587.6
741.2
326.0
112.1
0.0

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