

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: P952837

Luminaire Tested: **GALN-SB6C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39252 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

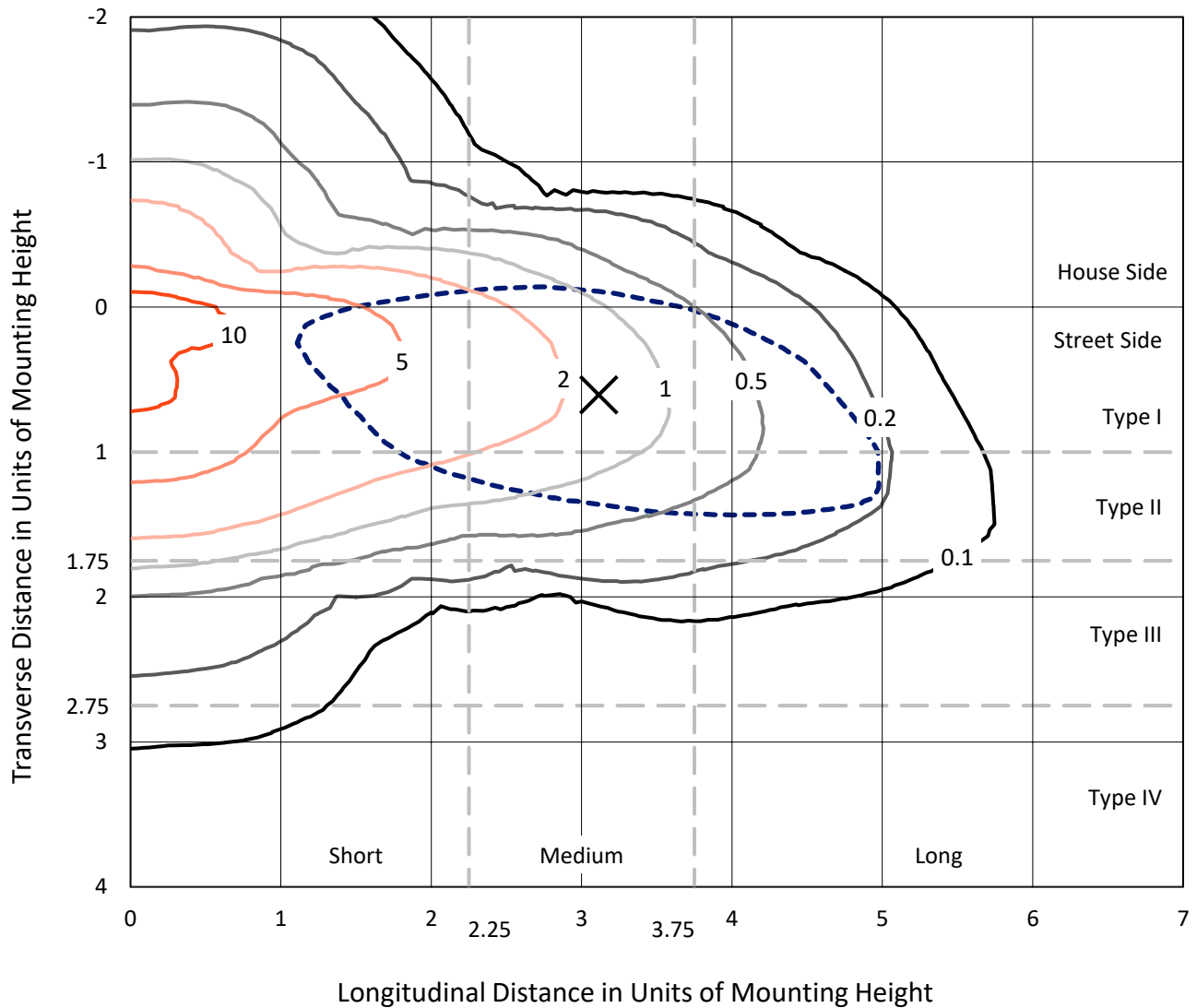
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

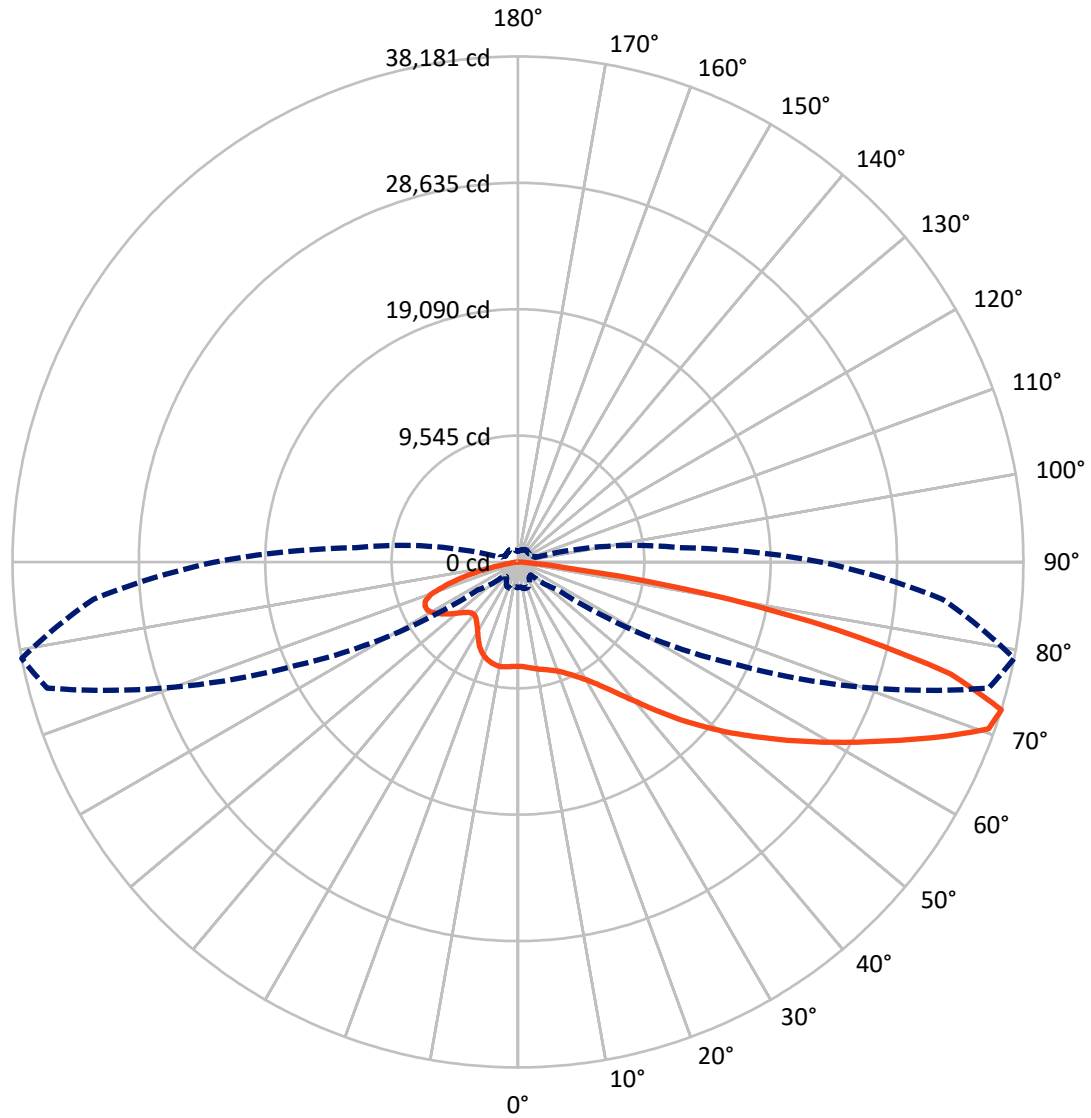
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8637.6	0.0	8637.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	30614.4	0.0	30614.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	39252.0	0.0	39252.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.2	1.8
10°-20°	1870.0	4.8
20°-30°	3017.4	7.7
30°-40°	4528.6	11.5
40°-50°	6424.1	16.4
50°-60°	8112.8	20.7
60°-70°	8239.6	21.0
70°-80°	5615.7	14.3
80°-90°	728.6	1.9
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°	39252.0	100.0
0°-180°	39252.0	100.0



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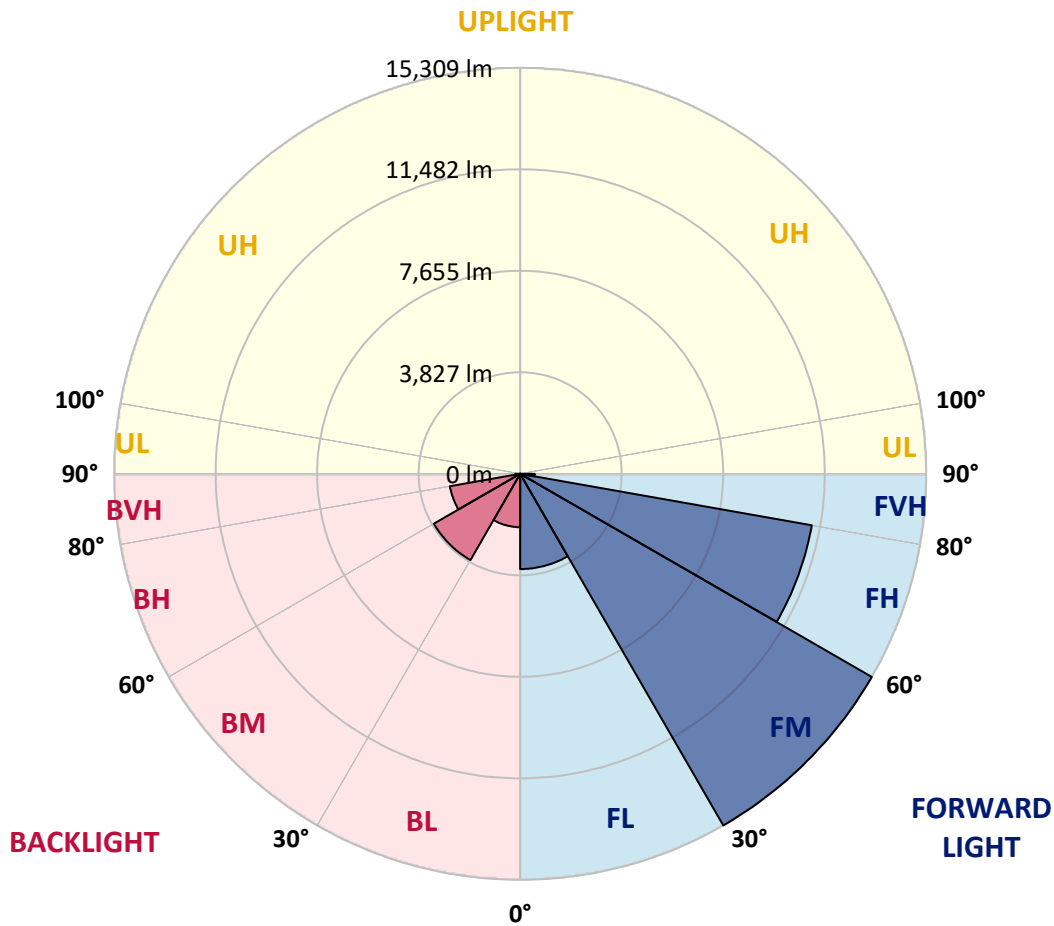
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3590.6	9.1			
FM (30°-60°)	15309.1	39.0			
FH (60°-80°)	11165.9	28.4			G4/12000
FVH (80°-90°)	548.9	1.4			G4/750
BL (0°-30°)	2011.9	5.1	B3/2500		
BM (30°-60°)	3756.4	9.6	B3/5000		
BH (60°-80°)	2689.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	179.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5
2.5°	7883.6	7846.2	7869.1	7860.8	7871.2	7883.6	7887.8	7894.0	7914.8	7912.7
5°	7867.0	7829.6	7860.8	7850.4	7877.4	7906.5	7931.4	7954.2	7987.4	8002.0
7.5°	7831.7	7806.8	7837.9	7869.1	7918.9	7962.5	7997.8	8049.7	8097.5	8105.8
10°	7626.2	7607.5	7680.1	7761.1	7898.2	8016.5	8093.3	8153.5	8205.4	8213.7
12.5°	7412.3	7389.5	7470.4	7580.5	7802.6	8016.5	8178.4	8257.3	8303.0	8330.0
15°	7377.0	7358.3	7404.0	7499.5	7684.3	7960.4	8236.6	8381.9	8421.4	8452.5
17.5°	7547.3	7512.0	7530.7	7563.9	7671.8	7908.5	8282.3	8523.1	8583.3	8616.5
20°	7941.8	7891.9	7862.9	7796.4	7777.7	7916.8	8278.1	8693.4	8772.3	8813.8
22.5°	8467.1	8433.8	8371.5	8203.4	8020.7	8018.6	8357.0	8911.4	9058.8	9098.2
25°	9102.4	9052.6	8973.7	8745.3	8394.4	8220.0	8489.9	9189.6	9436.7	9447.1
27.5°	9833.2	9758.5	9650.5	9349.5	8876.1	8535.6	8693.4	9509.3	9870.6	9866.5
30°	10603.5	10528.8	10414.6	10049.2	9453.3	8961.2	8975.7	9854.0	10385.5	10362.7
32.5°	11166.2	11110.2	11087.3	10804.9	10117.7	9463.7	9299.6	10236.0	11020.9	11000.1
35°	11598.1	11525.4	11552.4	11409.1	10842.3	10026.3	9696.2	10690.7	11793.2	11791.2
37.5°	12025.8	11961.4	11984.3	11888.8	11512.9	10740.6	10180.0	11247.2	12750.4	12796.1
40°	12416.1	12347.6	12439.0	12349.7	12034.1	11500.5	10730.2	11876.3	13859.1	13946.3
42.5°	12650.7	12596.8	12748.3	12750.4	12486.7	12142.1	11334.4	12569.8	15142.3	15337.4
45°	12731.7	12713.0	12941.4	12989.2	12887.4	12513.7	11878.4	13325.5	16525.1	16873.9
47.5°	12644.5	12609.2	12924.8	13101.3	13182.3	12688.1	12328.9	14143.6	17936.9	18447.7
50°	12204.3	12135.8	12605.1	12976.7	13265.3	12802.3	12783.6	15088.3	19541.9	20100.4
52.5°	11413.3	11361.4	11895.0	12540.7	13082.6	12858.4	13294.4	16120.2	21065.9	21788.4
55°	10402.1	10333.6	10921.2	11764.2	12627.9	12839.7	13805.2	17274.6	22863.9	23596.9
57.5°	8799.3	8662.2	9405.5	10402.1	11886.7	12816.8	14336.7	18422.8	24691.1	25569.3
60°	6461.4	6257.9	7169.4	8350.8	10437.4	12594.7	14994.9	19710.1	26883.6	27674.7
62.5°	3762.2	3643.9	4239.8	5342.3	7867.0	11286.6	15364.4	21207.1	29038.8	29869.3
65°	2921.3	2888.1	2940.0	3025.1	4378.9	8450.4	14224.6	22666.7	31779.5	32360.8
67.5°	2672.2	2647.3	2670.1	2510.2	2221.6	4706.9	11253.4	23036.3	34715.3	35068.3
70°	2375.3	2346.2	2420.9	2283.9	1748.2	2140.6	7271.1	21695.0	37051.1	37713.5
72.5°	1935.1	1901.9	2076.3	2014.0	1472.1	1374.5	3652.2	18507.9	36806.1	38180.6
75°	1486.6	1467.9	1675.6	1727.5	1200.1	1081.7	1752.4	13757.4	32389.9	33774.8
77.5°	1154.4	1139.9	1245.8	1434.7	967.5	838.8	1077.6	8726.6	24408.7	24651.6
80°	865.8	824.3	921.9	1110.8	753.7	612.5	730.8	5089.0	15428.8	13985.8
82.5°	541.9	521.1	602.1	741.2	531.5	421.5	475.5	2811.3	6183.1	3641.8
85°	309.4	301.1	328.1	423.6	288.6	242.9	272.0	1241.6	1129.5	776.5
87.5°	124.6	120.4	149.5	188.9	105.9	89.3	95.5	299.0	249.2	230.5
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°
7879.5	0°	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5	7879.5
7910.6	2.5°	7902.3	7902.3	7873.2	7827.6	7775.7	7742.4	7688.4	7673.9	7617.9	7601.2
7981.2	5°	7997.8	7981.2	7891.9	7763.2	7586.7	7424.8	7246.2	7134.1	6976.3	6920.2
8120.3	7.5°	8118.2	8072.6	7918.9	7636.5	7267.0	6903.6	6525.7	6239.2	5965.1	5867.6
8234.5	10°	8228.3	8163.9	7902.3	7408.2	6768.7	6139.5	5537.4	5115.9	4796.2	4665.4
8361.2	12.5°	8338.3	8220.0	7792.3	7028.2	6060.6	5207.3	4565.7	4237.7	4040.4	3882.6
8465.0	15°	8442.1	8276.0	7622.0	6519.5	5284.1	4418.3	3944.9	3683.3	3525.5	3421.7
8616.5	17.5°	8562.6	8323.8	7366.6	5873.8	4545.0	3872.3	3486.1	3328.3	3297.1	3284.7
8824.2	20°	8730.7	8367.4	7030.3	5151.2	4001.0	3436.2	3236.9	3222.4	3220.3	3214.1
9073.3	22.5°	8911.4	8419.3	6585.9	4495.1	3538.0	3164.2	3128.9	3099.9	3081.2	3079.1
9374.4	25°	9125.2	8435.9	6029.5	3957.4	3143.5	3035.5	2994.0	2950.4	2937.9	2937.9
9717.0	27.5°	9332.9	8379.8	5381.7	3490.2	2921.3	2917.2	2863.2	2848.7	2846.6	2852.8
10107.3	30°	9540.5	8274.0	4738.1	3058.4	2792.6	2792.6	2773.9	2784.3	2792.6	2813.4
10643.0	32.5°	9820.8	8161.8	4200.3	2738.6	2680.5	2659.7	2678.4	2699.2	2707.5	2734.5
11346.8	35°	10231.9	8082.9	3772.6	2564.2	2564.2	2537.2	2547.6	2543.4	2524.8	2512.3
12198.1	37.5°	10775.9	8078.8	3419.6	2483.2	2466.6	2462.5	2464.5	2437.5	2364.9	2277.7
13228.0	40°	11429.9	8190.9	3147.6	2427.2	2414.7	2439.6	2427.2	2354.5	2155.2	2003.6
14494.5	42.5°	12308.2	8510.7	2973.2	2358.6	2396.0	2427.2	2377.3	2126.1	1991.1	1889.4
15937.5	45°	13342.1	9029.7	2883.9	2286.0	2360.7	2398.1	2157.3	2047.2	1939.2	1816.7
17511.3	47.5°	14513.2	9683.7	2863.2	2217.5	2281.8	2304.7	2063.8	2014.0	1891.5	1758.6
19093.4	50°	15788.0	10458.2	2919.2	2136.5	2167.6	2088.7	2032.7	1987.0	1860.3	1729.5
20715.0	52.5°	17106.4	11311.5	3031.4	2026.4	2053.4	1966.2	2020.2	1980.8	1841.7	1665.2
22390.6	55°	18402.0	12171.1	3139.3	1897.7	1937.2	1856.2	1984.9	1955.9	1756.5	1557.2
24178.2	57.5°	19718.4	13026.6	3245.2	1783.5	1825.0	1750.3	1928.9	1889.4	1661.0	1457.5
26129.9	60°	21086.7	13857.1	3295.0	1673.5	1702.5	1652.7	1843.7	1775.2	1553.1	1355.8
28048.4	62.5°	22367.7	14548.5	3214.1	1563.4	1582.1	1561.4	1731.6	1640.3	1445.1	1241.6
30047.9	65°	23652.9	14959.6	2964.9	1455.5	1459.6	1449.2	1573.8	1494.9	1318.4	1142.0
31798.2	67.5°	24817.7	15190.0	2568.4	1339.2	1328.8	1324.7	1426.4	1337.1	1195.9	1042.3
33129.1	70°	25064.8	14604.5	1962.1	1202.2	1202.2	1191.8	1264.5	1173.1	1061.0	936.4
32176.0	72.5°	22893.0	12285.3	1393.2	1046.4	1063.1	1042.3	1102.5	1025.7	923.9	840.9
27730.7	75°	18460.2	9009.0	1013.2	886.6	915.6	880.3	936.4	882.4	795.2	793.1
19110.0	77.5°	12684.0	5570.6	735.0	730.8	751.6	705.9	770.3	741.2	662.3	627.0
8317.6	80°	5412.9	2221.6	535.7	564.7	564.7	523.2	598.0	606.3	537.8	521.1
1605.0	82.5°	1077.6	631.2	375.8	388.3	365.4	353.0	423.6	469.2	647.8	720.5
483.8	85°	323.9	232.5	226.3	211.8	186.9	188.9	249.2	471.3	581.4	332.2
159.9	87.5°	89.3	58.1	60.2	47.8	39.4	51.9	85.1	357.1	195.2	83.1
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>
7879.5
7628.2
6961.8
5880.0
4694.5
3934.5
3440.4
3293.0
3234.8
3102.0
2950.4
2869.4
2827.9
2757.3
2541.4
2279.8
1999.5
1885.3
1808.4
1748.2
1715.0
1652.7
1546.8
1453.4
1349.6
1239.5
1129.5
1029.8
932.2
<i>816.0</i>
714.2
587.6
521.1
722.5
286.5
70.6
0.0

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