

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: P955884

Luminaire Tested: **GALN-SB8C-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955884
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-SB8C-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 41172 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

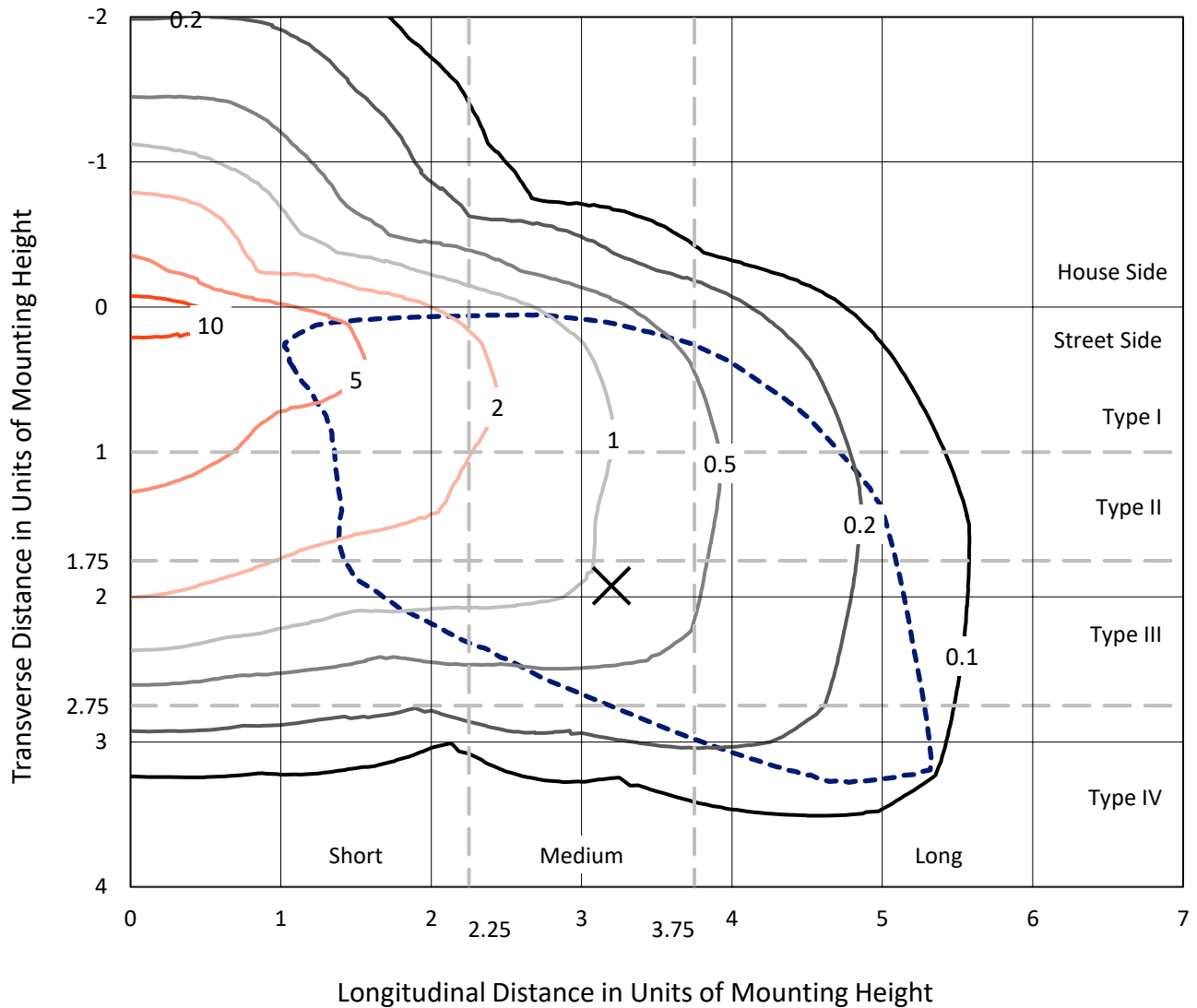
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

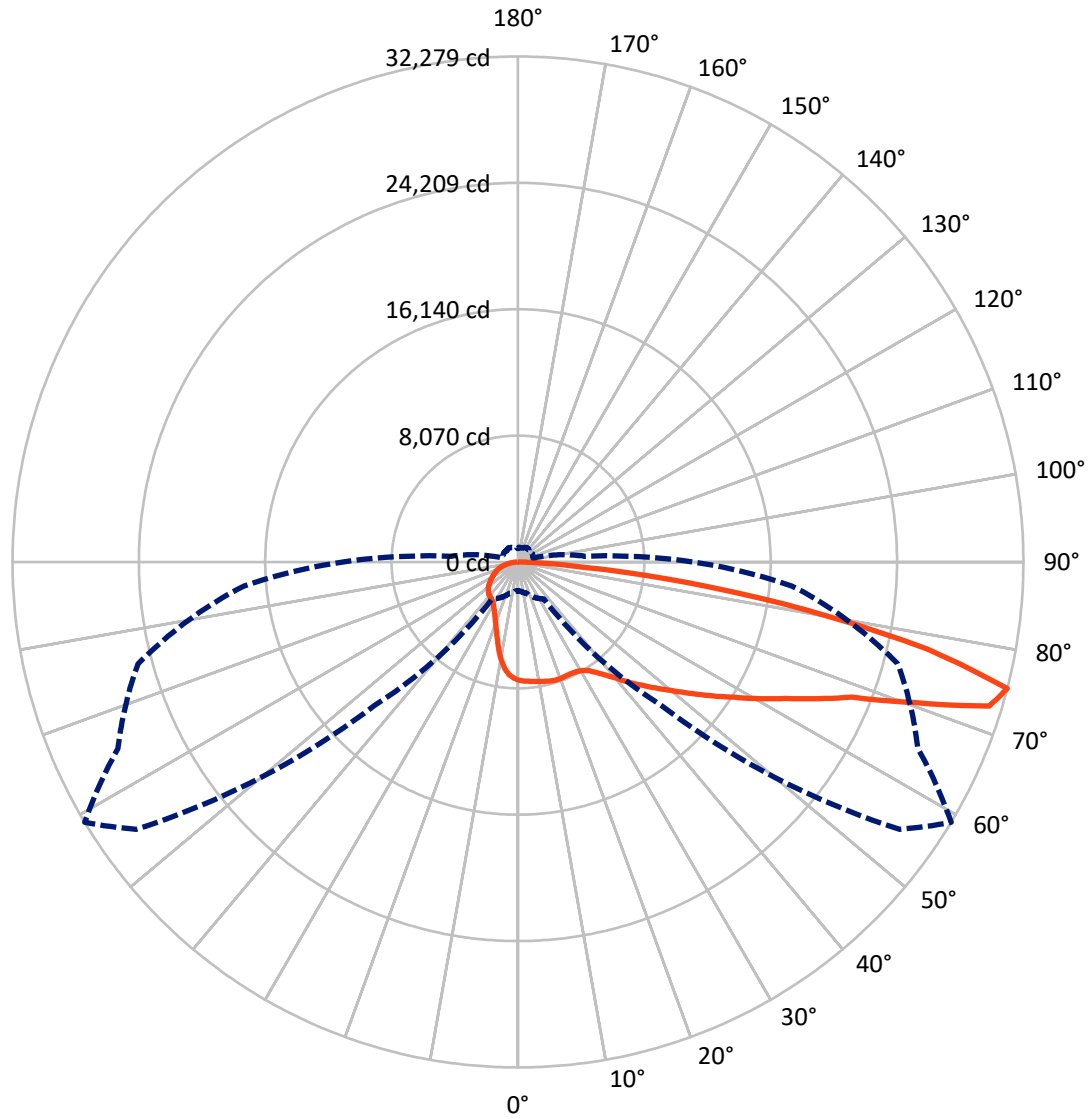
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - 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	7722.1	0.0	7722.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33449.9	0.0	33449.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	41172.0	0.0	41172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.6	1.6
10°-20°	1732.0	4.2
20°-30°	2630.8	6.4
30°-40°	3910.6	9.5
40°-50°	5815.8	14.1
50°-60°	7894.2	19.2
60°-70°	9637.5	23.4
70°-80°	7563.4	18.4
80°-90°	1310.2	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°	41172.0	100.0
0°-180°	41172.0	100.0

Coefficient of Utilization



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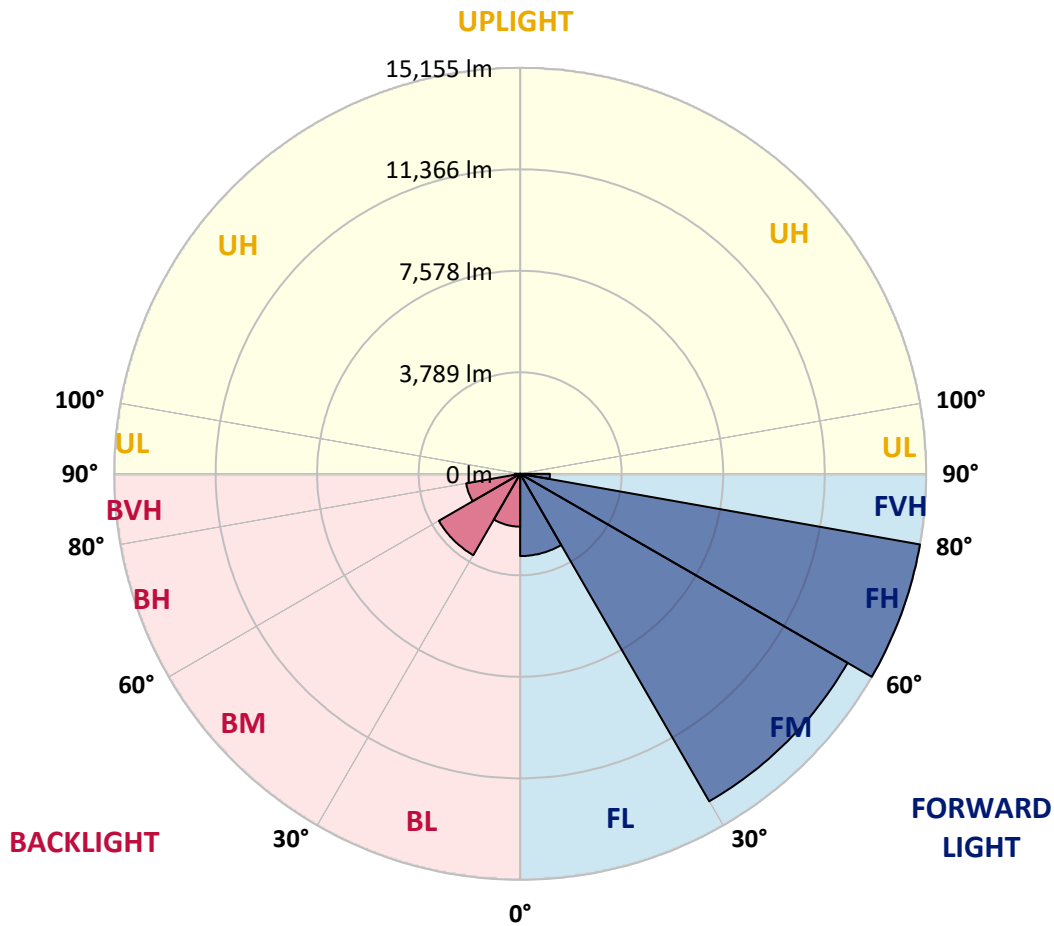
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.8	7.5			
FM (30°-60°)	14115.5	34.3			
FH (60°-80°)	15155.0	36.8			G5
FVH (80°-90°)	1109.6	2.7			G5
BL (0°-30°)	1970.6	4.8	B3/2500		
BM (30°-60°)	3505.1	8.5	B3/5000		
BH (60°-80°)	2045.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	200.6	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°	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0
2.5°	7621.3	7594.7	7621.3	7610.2	7605.8	7596.9	7599.1	7614.6	7605.8	7616.8
5°	7570.3	7554.8	7581.4	7574.7	7603.5	7608.0	7636.8	7654.5	7665.6	7667.8
7.5°	7486.2	7470.7	7508.3	7539.3	7601.3	7619.0	7678.8	7707.6	7723.1	7749.7
10°	7178.3	7171.6	7264.7	7382.1	7528.2	7619.0	7709.9	7758.6	7782.9	7853.8
12.5°	6633.4	6642.3	6764.1	6990.0	7282.4	7574.7	7745.3	7816.2	7853.8	7942.4
15°	6113.0	6110.7	6243.6	6485.0	6894.8	7379.8	7763.0	7884.8	7949.1	8079.7
17.5°	5811.7	5802.9	5895.9	6079.7	6460.7	7080.8	7718.7	7922.5	8059.8	8223.7
20°	5756.4	5738.6	5787.4	5878.2	6148.4	6753.0	7603.5	7922.5	8148.4	8361.0
22.5°	5957.9	5929.1	5909.2	5898.1	6017.7	6482.8	7472.9	7895.9	8279.1	8558.1
25°	6363.2	6318.9	6217.1	6117.4	6081.9	6361.0	7357.7	7889.3	8474.0	8823.9
27.5°	7018.8	6963.5	6757.5	6518.3	6303.4	6423.0	7306.8	7929.1	8688.8	9105.2
30°	7831.7	7771.9	7512.7	7145.1	6759.7	6653.4	7371.0	8046.5	8963.5	9479.5
32.5°	8560.4	8493.9	8272.4	7898.1	7377.6	7052.0	7574.7	8270.2	9395.3	10000.0
35°	9207.1	9129.6	8930.2	8584.7	8135.1	7612.4	7942.4	8666.7	10008.9	10846.1
37.5°	9840.5	9749.7	9532.7	9167.2	8852.7	8358.8	8449.6	9176.1	10823.9	11873.7
40°	10549.3	10418.6	10155.0	9794.0	9488.4	9233.7	9116.3	9800.7	11652.3	13021.0
42.5°	11235.9	11111.8	10797.3	10489.5	10106.3	10033.2	9889.3	10531.6	12558.1	14281.3
45°	11975.6	11827.2	11446.3	11056.5	10815.1	10564.8	10637.9	11262.5	13446.3	15565.9
47.5°	12668.9	12502.8	12053.2	11619.0	11486.2	11012.2	11324.5	12066.4	14369.9	16868.2
50°	13043.2	12879.3	12505.0	12113.0	12008.9	11563.7	12068.7	12950.2	15337.8	18166.1
52.5°	13355.5	13178.3	12688.8	12471.8	12440.7	12163.9	12985.6	13960.1	16305.6	19313.4
55°	13687.7	13490.6	12866.0	12671.1	12812.8	12837.2	14073.1	15105.2	17328.9	20431.9
57.5°	14070.9	13820.6	13036.5	12839.4	13176.1	13625.7	15322.3	16292.4	18334.4	21468.4
60°	14431.9	14179.4	13364.3	13107.4	13568.1	14540.4	16755.3	17729.8	19472.9	22392.0
62.5°	14502.8	14294.6	13625.7	13623.5	14099.7	15608.0	18451.8	19180.5	20467.3	23304.5
65°	13275.7	13145.1	12748.6	13603.5	14861.6	17145.1	20341.1	21036.5	21732.0	24101.9
67.5°	10104.1	10121.8	10093.0	11743.1	14245.8	19353.3	23076.4	23023.2	23293.5	24996.7
70°	4620.2	4724.3	5402.0	8106.3	11413.1	19608.0	27599.1	26910.3	25253.6	26155.0
72.5°	2496.1	2575.9	2852.7	3926.9	6861.6	17433.0	30978.9	31468.4	27860.5	26934.7
75°	1831.7	1876.0	2068.7	2496.1	2881.5	12956.8	29767.4	32279.1	28186.0	25116.3
77.5°	1371.0	1390.9	1548.2	1977.9	1475.1	6830.6	23785.2	26733.1	24128.5	20635.7
80°	994.5	1016.6	1134.0	1483.9	1034.3	2498.3	16332.2	18764.1	16524.9	13153.9
82.5°	686.6	695.5	746.4	1010.0	722.0	970.1	9266.9	11003.3	9224.8	4615.7
85°	414.2	425.2	447.4	589.1	409.7	460.7	4000.0	4137.3	2757.5	1103.0
87.5°	170.5	181.6	199.3	248.1	161.7	128.5	660.0	828.3	516.1	323.4
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°
7557.0	0°	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0	7557.0
7579.2	2.5°	7568.1	7552.6	7510.5	7452.9	7399.8	7333.3	7304.5	7280.2	7258.0	7215.9
7639.0	5°	7614.6	7572.5	7459.6	7313.4	7147.3	6965.7	6788.5	6666.7	6562.6	6485.0
7707.6	7.5°	7685.5	7605.8	7399.8	7100.8	6719.8	6330.0	5977.8	5727.6	5539.3	5470.7
7805.1	10°	7758.6	7663.3	7304.5	6777.4	6119.6	5519.4	5052.0	4795.1	4644.5	4595.8
7920.3	12.5°	7845.0	7705.4	7156.1	6327.8	5448.5	4790.7	4383.2	4232.6	4155.0	4128.5
8062.0	15°	7971.2	7740.9	6932.4	5765.2	4808.4	4259.1	3995.6	3891.5	3851.6	3849.4
8208.2	17.5°	8066.4	7747.5	6584.7	5162.8	4316.7	3938.0	3720.9	3681.1	3707.6	3747.5
8352.2	20°	8172.8	7687.7	6128.5	4613.5	3971.2	3656.7	3565.9	3592.5	3656.7	3714.3
8542.6	22.5°	8248.1	7579.2	5577.0	4186.0	3672.2	3495.0	3490.6	3546.0	3581.4	3610.2
8766.3	25°	8314.5	7395.3	4992.2	3827.2	3426.4	3397.6	3446.3	3428.6	3404.2	3428.6
8990.0	27.5°	8363.2	7105.2	4469.5	3512.7	3253.6	3331.1	3302.3	3262.5	3260.2	3273.5
9253.6	30°	8347.7	6717.6	4039.9	3213.7	3131.8	3207.1	3138.4	3131.8	3125.1	3131.8
9650.1	32.5°	8347.7	6276.9	3709.9	3007.8	3054.3	3025.5	3018.8	3003.3	2976.7	2974.5
10188.3	35°	8394.2	5836.1	3426.4	2897.0	2990.0	2921.4	2925.8	2888.1	2832.8	2806.2
10901.4	37.5°	8489.5	5481.7	3145.1	2843.9	2877.1	2874.9	2857.1	2792.9	2695.5	2611.3
11791.8	40°	8719.8	5377.6	2952.4	2819.5	2823.9	2850.5	2804.0	2680.0	2458.5	2321.2
12695.5	42.5°	9080.8	5552.6	2910.3	2759.7	2788.5	2815.1	2724.3	2436.3	2279.1	2197.1
13643.4	45°	9539.3	5858.2	3001.1	2673.3	2704.3	2750.8	2480.6	2343.3	2272.4	2274.6
14582.5	47.5°	10119.6	6179.4	3169.4	2598.0	2582.5	2609.1	2318.9	2234.8	2137.3	2161.7
15483.9	50°	10790.7	6505.0	3328.9	2496.1	2447.4	2361.0	2214.8	2135.1	2011.1	1953.5
16354.4	52.5°	11517.2	6819.5	3393.1	2372.1	2301.2	2201.5	2144.0	2046.5	1895.9	1800.7
17176.1	55°	12206.0	7105.2	3322.3	2223.7	2155.0	2077.5	2068.7	2008.9	1847.2	1714.3
17907.0	57.5°	12857.1	7344.4	3145.1	2073.1	2006.6	1960.1	2019.9	1991.1	1787.4	1616.8
18598.0	60°	13408.6	7508.3	2888.1	1920.3	1873.8	1849.4	1940.2	1931.3	1703.2	1512.7
19218.2	62.5°	13847.2	7572.5	2604.7	1774.1	1763.0	1718.7	1829.5	1829.5	1596.9	1410.9
19763.0	65°	14190.5	7510.5	2316.7	1630.1	1652.3	1585.8	1694.4	1681.1	1483.9	1320.0
20389.8	67.5°	14493.9	7306.8	1997.8	1488.4	1539.3	1455.1	1552.6	1521.6	1359.9	1229.2
20932.4	70°	14629.0	6832.8	1634.6	1346.6	1408.6	1326.7	1410.9	1353.3	1220.4	1131.8
20336.6	72.5°	13543.7	5678.8	1286.8	1198.2	1251.4	1184.9	1258.0	1191.6	1069.8	1029.9
17561.5	75°	11204.9	4261.3	990.0	1036.5	1076.4	1025.5	1074.2	1025.5	914.7	943.5
12972.3	77.5°	8137.3	2877.1	757.5	866.0	883.7	857.1	899.2	843.9	744.2	737.5
6465.1	80°	4046.5	1685.5	593.6	684.4	677.7	660.0	708.7	682.2	598.0	633.4
1745.3	82.5°	1171.6	722.0	431.9	480.6	467.3	471.8	507.2	520.5	779.6	773.0
542.6	85°	367.7	283.5	259.1	268.0	254.7	261.4	299.0	593.6	549.3	321.2
168.3	87.5°	95.2	97.5	64.2	68.7	70.9	84.2	95.2	361.0	172.8	113.0
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>
7557.0
7196.0
6420.8
5351.0
4520.5
4135.1
3858.2
3763.0
3734.2
3625.7
3444.1
3295.7
3156.1
3003.3
2832.8
2640.1
2338.9
2197.1
2285.7
2223.7
1969.0
1798.4
1714.3
1608.0
1506.1
1404.2
1311.2
1220.4
1114.1
996.7
<i>861.6</i>
704.3
626.8
790.7
347.7
119.6
0.0

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