

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: P957310

Luminaire Tested: **GALN-SB9C-950-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957310  
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-SB9C-950-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

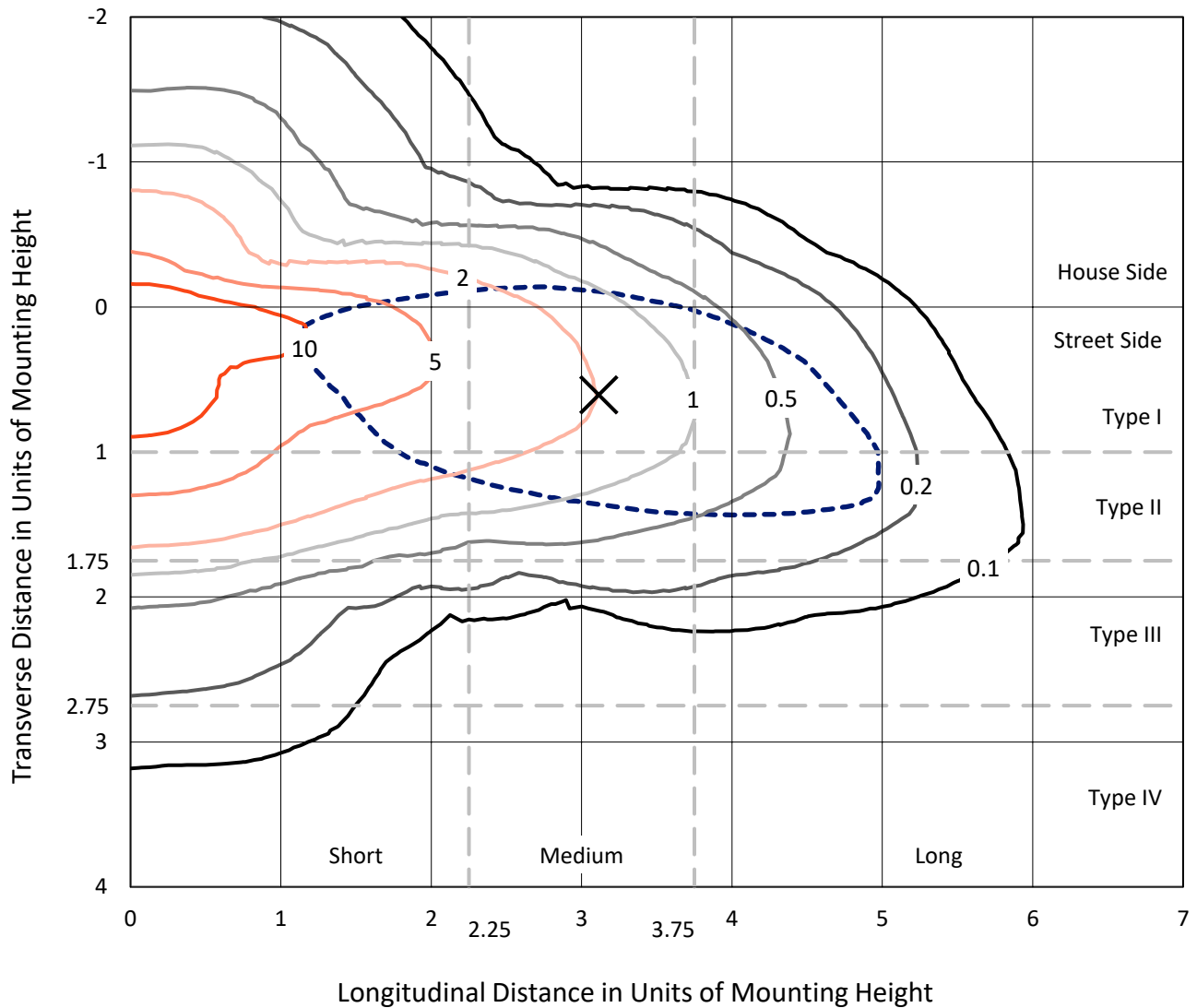
Lumens per Lamp: N/A  
Luminaire Lumens: 47166 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

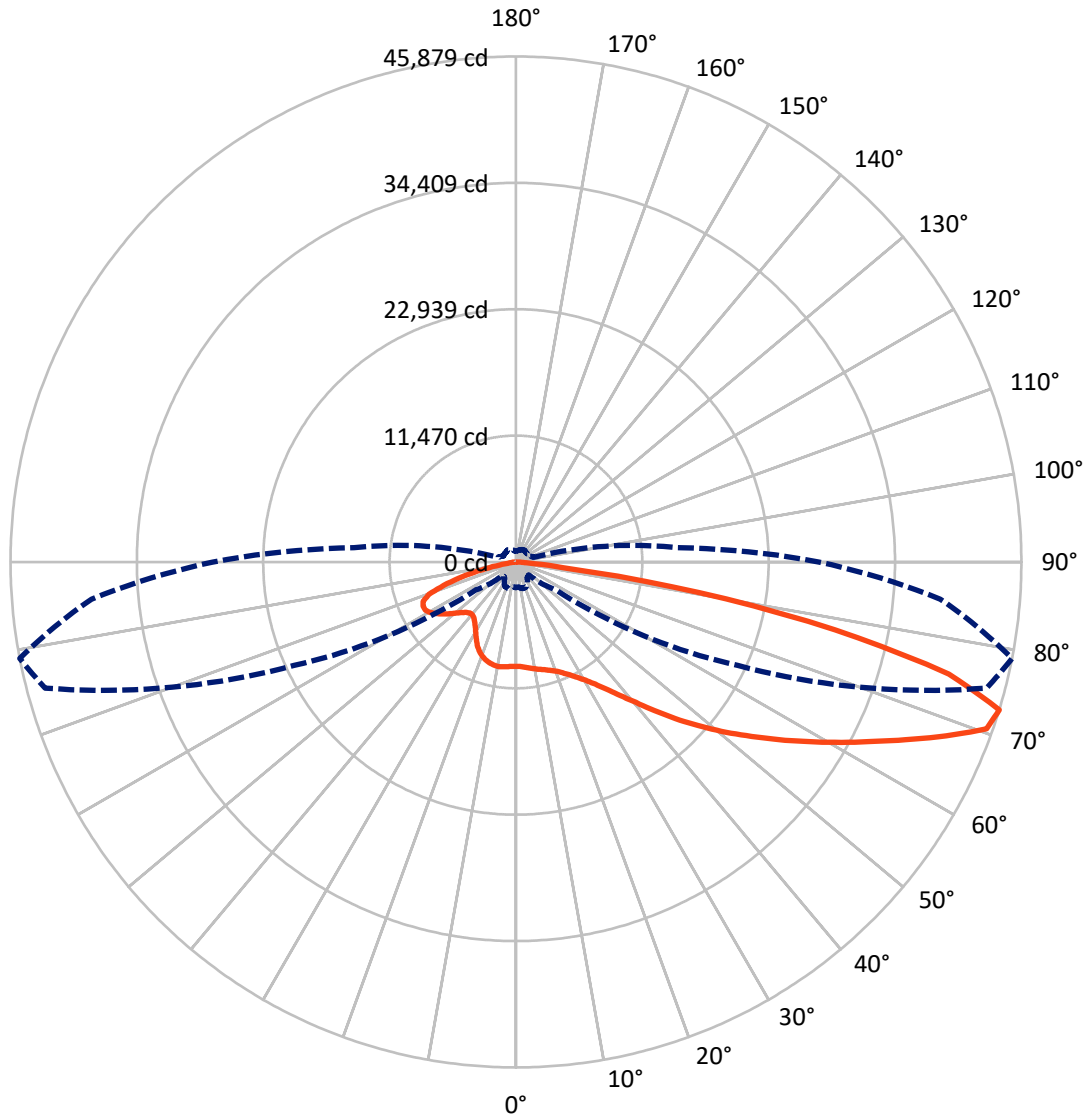
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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
<b>House Side</b>	Lumens	10379.1	0.0	10379.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	36786.9	0.0	36786.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	47166.0	0.0	47166.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	859.4	1.8
10°-20°	2247.0	4.8
20°-30°	3625.7	7.7
30°-40°	5441.7	11.5
40°-50°	7719.3	16.4
50°-60°	9748.5	20.7
60°-70°	9900.9	21.0
70°-80°	6747.9	14.3
80°-90°	875.5	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°	47166.0	100.0
0°-180°	47166.0	100.0



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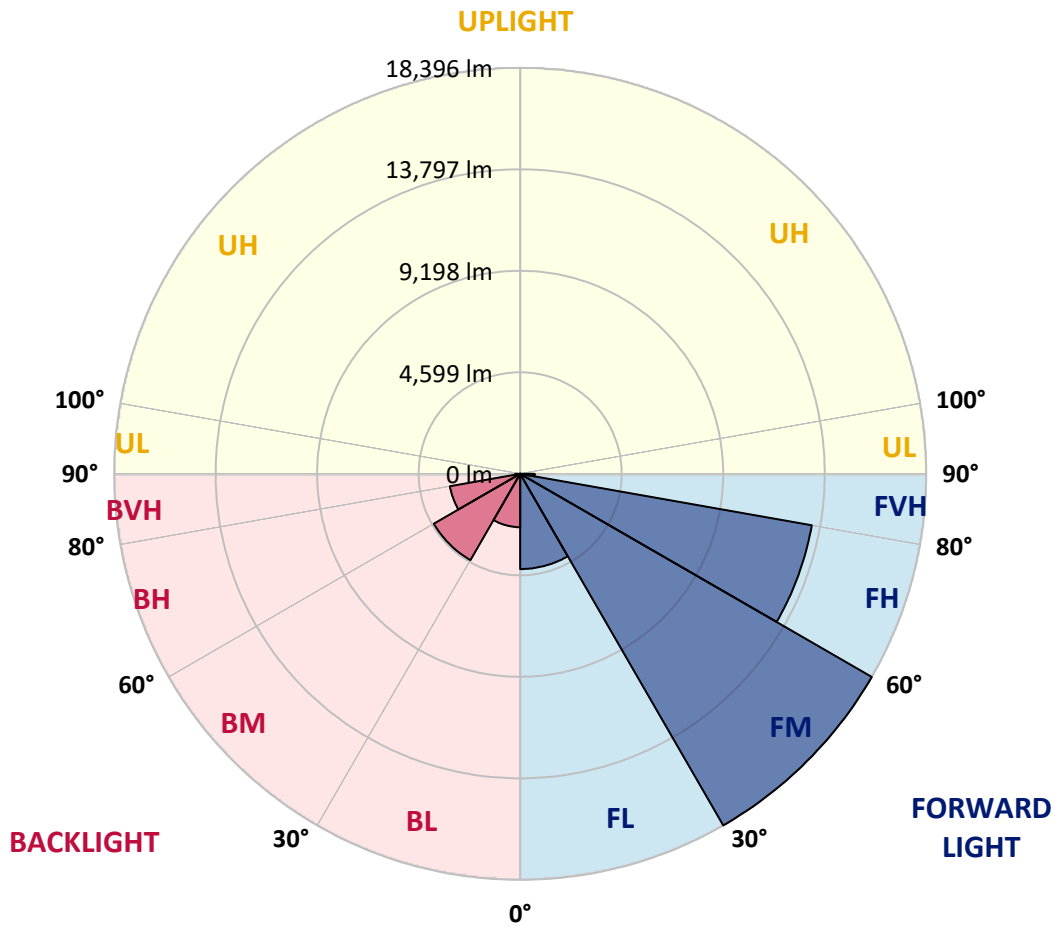
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4314.5	9.1			
FM (30°-60°)	18395.7	39.0			
FH (60°-80°)	13417.1	28.4			G5
FVH (80°-90°)	659.5	1.4			G4/750
BL (0°-30°)	2417.6	5.1	B3/2500		
BM (30°-60°)	4513.8	9.6	B3/5000		
BH (60°-80°)	3231.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	216.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1
2.5°	9473.1	9428.2	9455.7	9445.7	9458.1	9473.1	9478.1	9485.6	9510.5	9508.0
5°	9453.2	9408.2	9445.7	9433.2	9465.6	9500.6	9530.5	9557.9	9597.9	9615.3
7.5°	9410.7	9380.8	9418.2	9455.7	9515.5	9567.9	9610.3	9672.7	9730.1	9740.1
10°	9163.7	9141.3	9228.6	9325.9	9490.6	9632.8	9725.1	9797.5	9859.8	9869.8
12.5°	8906.8	8879.3	8976.6	9108.9	9375.8	9632.8	9827.4	9922.2	9977.1	10009.5
15°	8864.4	8841.9	8896.8	9011.6	9233.6	9565.4	9897.2	10071.9	10119.3	10156.7
17.5°	9068.9	9026.5	9049.0	9088.9	9218.6	9503.1	9952.1	10241.5	10313.9	10353.8
20°	9543.0	9483.1	9448.2	9368.3	9345.9	9513.0	9947.1	10446.1	10540.9	10590.8
22.5°	10174.2	10134.3	10059.4	9857.3	9637.8	9635.3	10042.0	10708.1	10885.2	10932.6
25°	10937.6	10877.7	10782.9	10508.5	10086.9	9877.3	10201.6	11042.4	11339.3	11351.8
27.5°	11815.8	11726.0	11596.3	11234.5	10665.7	10256.5	10446.1	11426.6	11860.7	11855.7
30°	12741.4	12651.6	12514.4	12075.3	11359.3	10768.0	10785.4	11840.8	12479.5	12452.0
32.5°	13417.5	13350.2	13322.7	12983.4	12157.6	11371.7	11174.6	12299.8	13242.9	13218.0
35°	13936.5	13849.2	13881.6	13709.4	13028.3	12047.8	11651.2	12846.2	14171.0	14168.5
37.5°	14450.4	14373.1	14400.5	14285.8	13834.2	12906.1	12232.5	13514.8	15321.1	15376.0
40°	14919.5	14837.1	14946.9	14839.6	14460.4	13819.2	12893.6	14270.8	16653.4	16758.2
42.5°	15201.4	15136.5	15318.7	15321.1	15004.3	14590.1	13619.6	15104.1	18195.3	18429.8
45°	15298.7	15276.2	15550.7	15608.1	15485.8	15036.7	14273.3	16012.2	19856.9	20276.0
47.5°	15193.9	15151.5	15530.7	15742.8	15840.1	15246.3	14814.7	16995.2	21553.4	22167.1
50°	14665.0	14582.7	15146.5	15593.1	15939.9	15383.5	15361.1	18130.4	23482.0	24153.1
52.5°	13714.4	13652.1	14293.3	15069.2	15720.3	15450.9	15974.8	19370.4	25313.2	26181.4
55°	12499.4	12417.1	13123.1	14136.1	15174.0	15428.4	16588.6	20757.5	27473.8	28354.5
57.5°	10573.4	10408.7	11301.9	12499.4	14283.3	15401.0	17227.2	22137.2	29669.3	30724.6
60°	7764.1	7519.6	8614.9	10034.5	12541.8	15134.0	18018.1	23684.0	32303.9	33254.5
62.5°	4520.7	4378.5	5094.6	6419.4	9453.2	13562.2	18462.2	25482.9	34893.6	35891.6
65°	3510.3	3470.4	3532.8	3635.1	5261.7	10154.2	17092.5	27236.8	38186.9	38885.4
67.5°	3210.9	3181.0	3208.4	3016.3	2669.5	5655.9	13522.3	27680.9	41714.6	42138.8
70°	2854.2	2819.2	2909.0	2744.4	2100.7	2572.2	8737.1	26069.2	44521.4	45317.3
72.5°	2325.2	2285.3	2494.9	2420.0	1768.9	1651.6	4388.5	22239.5	44227.0	45878.6
75°	1786.3	1763.9	2013.4	2075.8	1442.0	1299.8	2105.7	16531.2	38920.4	40584.5
77.5°	1387.2	1369.7	1496.9	1724.0	1162.6	1007.9	1294.9	10486.0	29330.0	29621.9
80°	1040.4	990.5	1107.7	1334.8	905.6	736.0	878.2	6115.0	18539.6	16805.6
82.5°	651.2	626.2	723.5	890.7	638.7	506.5	571.3	3378.1	7429.8	4376.0
85°	371.7	361.8	394.2	509.0	346.8	291.9	326.8	1491.9	1357.2	933.1
87.5°	149.7	144.7	179.6	227.0	127.2	107.3	114.8	359.3	299.4	276.9
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°
9468.1	0°	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1	9468.1
9505.5	2.5°	9495.6	9495.6	9460.6	9405.8	9343.4	9303.5	9238.6	9221.1	9153.8	9133.8
9590.4	5°	9610.3	9590.4	9483.1	9328.4	9116.3	8921.7	8707.2	8572.5	8382.8	8315.5
9757.5	7.5°	9755.0	9700.2	9515.5	9176.2	8732.1	8295.5	7841.5	7497.2	7167.8	7050.6
9894.8	10°	9887.3	9809.9	9495.6	8901.8	8133.4	7377.4	6653.9	6147.4	5763.2	5606.0
10046.9	12.5°	10019.5	9877.3	9363.3	8445.2	7282.6	6257.2	5486.3	5092.1	4855.1	4665.5
10171.7	15°	10144.2	9944.7	9158.8	7834.0	6349.5	5309.1	4740.3	4425.9	4236.3	4111.6
10353.8	17.5°	10288.9	10002.0	8851.9	7058.1	5461.3	4653.0	4188.9	3999.3	3961.9	3946.9
10603.3	20°	10491.0	10054.4	8447.7	6189.8	4807.7	4129.1	3889.5	3872.1	3869.6	3862.1
10902.7	22.5°	10708.1	10116.8	7913.8	5401.4	4251.3	3802.2	3759.8	3724.9	3702.4	3699.9
11264.5	25°	10965.1	10136.8	7245.2	4755.3	3777.3	3647.5	3597.6	3545.2	3530.3	3530.3
11676.1	27.5°	11214.6	10069.4	6466.8	4193.9	3510.3	3505.3	3440.5	3423.0	3420.5	3428.0
12145.1	30°	11464.0	9942.2	5693.4	3675.0	3355.6	3355.6	3333.2	3345.7	3355.6	3380.6
12788.8	32.5°	11800.9	9807.4	5047.2	3290.8	3220.9	3196.0	3218.4	3243.4	3253.3	3285.8
13634.6	35°	12294.8	9712.6	4533.2	3081.2	3081.2	3048.8	3061.2	3056.2	3033.8	3018.8
14657.5	37.5°	12948.5	9707.6	4109.1	2983.9	2963.9	2958.9	2961.4	2929.0	2841.7	2736.9
15895.0	40°	13734.4	9842.4	3782.3	2916.5	2901.6	2931.5	2916.5	2829.2	2589.7	2407.6
17416.9	42.5°	14789.7	10226.6	3572.7	2834.2	2879.1	2916.5	2856.7	2554.8	2392.6	2270.4
19150.8	45°	16032.2	10850.3	3465.4	2746.9	2836.7	2881.6	2592.2	2460.0	2330.2	2183.0
21041.9	47.5°	17439.3	11636.2	3440.5	2664.5	2741.9	2769.3	2479.9	2420.0	2272.8	2113.2
22943.1	50°	18971.2	12566.8	3507.8	2567.2	2604.7	2509.9	2442.5	2387.6	2235.4	2078.2
24891.6	52.5°	20555.4	13592.2	3642.5	2435.0	2467.5	2362.7	2427.5	2380.1	2213.0	2000.9
26904.9	55°	22112.3	14625.1	3772.3	2280.3	2327.7	2230.4	2385.1	2350.2	2110.7	1871.2
29053.1	57.5°	23694.0	15653.0	3899.5	2143.1	2193.0	2103.2	2317.8	2270.4	1995.9	1751.4
31398.3	60°	25338.2	16650.9	3959.4	2010.9	2045.8	1985.9	2215.5	2133.1	1866.2	1629.2
33703.5	62.5°	26877.5	17481.7	3862.1	1878.7	1901.1	1876.2	2080.7	1971.0	1736.4	1491.9
36106.1	65°	28421.8	17975.7	3562.7	1748.9	1753.9	1741.4	1891.1	1796.3	1584.3	1372.2
38209.3	67.5°	29821.5	18252.7	3086.2	1609.2	1596.7	1591.7	1714.0	1606.7	1437.1	1252.4
39808.5	70°	30118.4	17549.1	2357.7	1444.5	1444.5	1432.1	1519.4	1409.6	1274.9	1125.2
38663.4	72.5°	27508.7	14762.3	1674.1	1257.4	1277.4	1252.4	1324.8	1232.5	1110.2	1010.4
33321.8	75°	22182.1	10825.3	1217.5	1065.3	1100.2	1057.8	1125.2	1060.3	955.5	953.0
22963.0	77.5°	15241.3	6693.8	883.2	878.2	903.2	848.3	925.6	890.7	795.9	753.5
9994.5	80°	6504.2	2669.5	643.7	678.6	678.6	628.7	718.5	728.5	646.2	626.2
1928.6	82.5°	1294.9	758.4	451.6	466.5	439.1	424.1	509.0	563.8	778.4	865.7
581.3	85°	389.2	279.4	271.9	254.5	224.5	227.0	299.4	566.3	698.6	399.2
192.1	87.5°	107.3	69.9	72.4	57.4	47.4	62.4	102.3	429.1	234.5	99.8
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>
9468.1
9166.2
8365.4
7065.5
5641.0
4727.8
4134.0
3956.9
3887.0
3727.4
3545.2
3447.9
3398.0
3313.2
3053.8
2739.4
2402.6
2265.4
2173.1
2100.7
2060.8
1985.9
1858.7
1746.4
1621.7
1489.5
1357.2
1237.5
1120.2
980.5
858.2
706.1
626.2
868.2
344.3
84.8
0.0

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