

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: P956491

Luminaire Tested: **GALN-SB9A-850-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956491  
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-SB9A-850-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

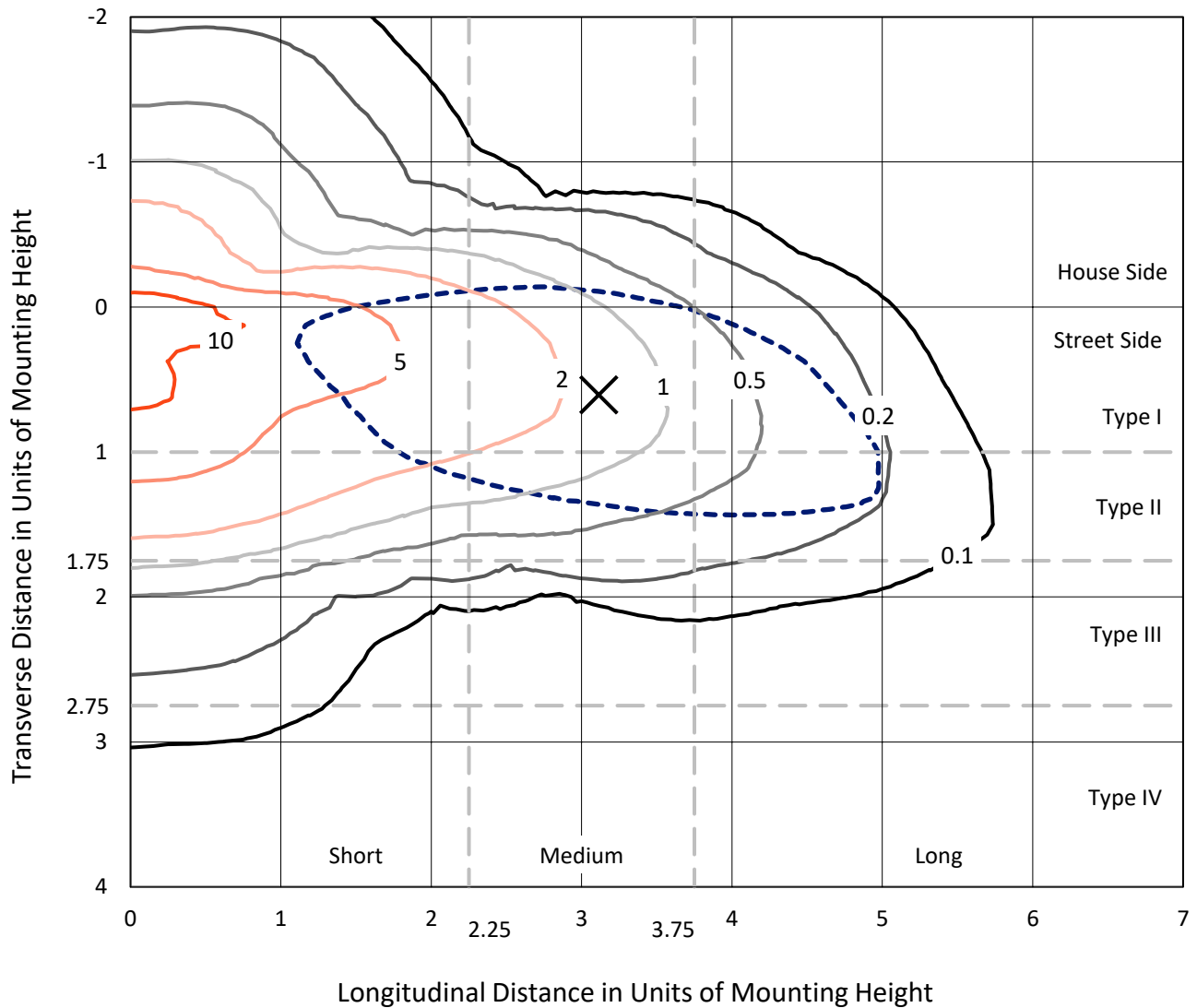
Lumens per Lamp: N/A  
Luminaire Lumens: 38845 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

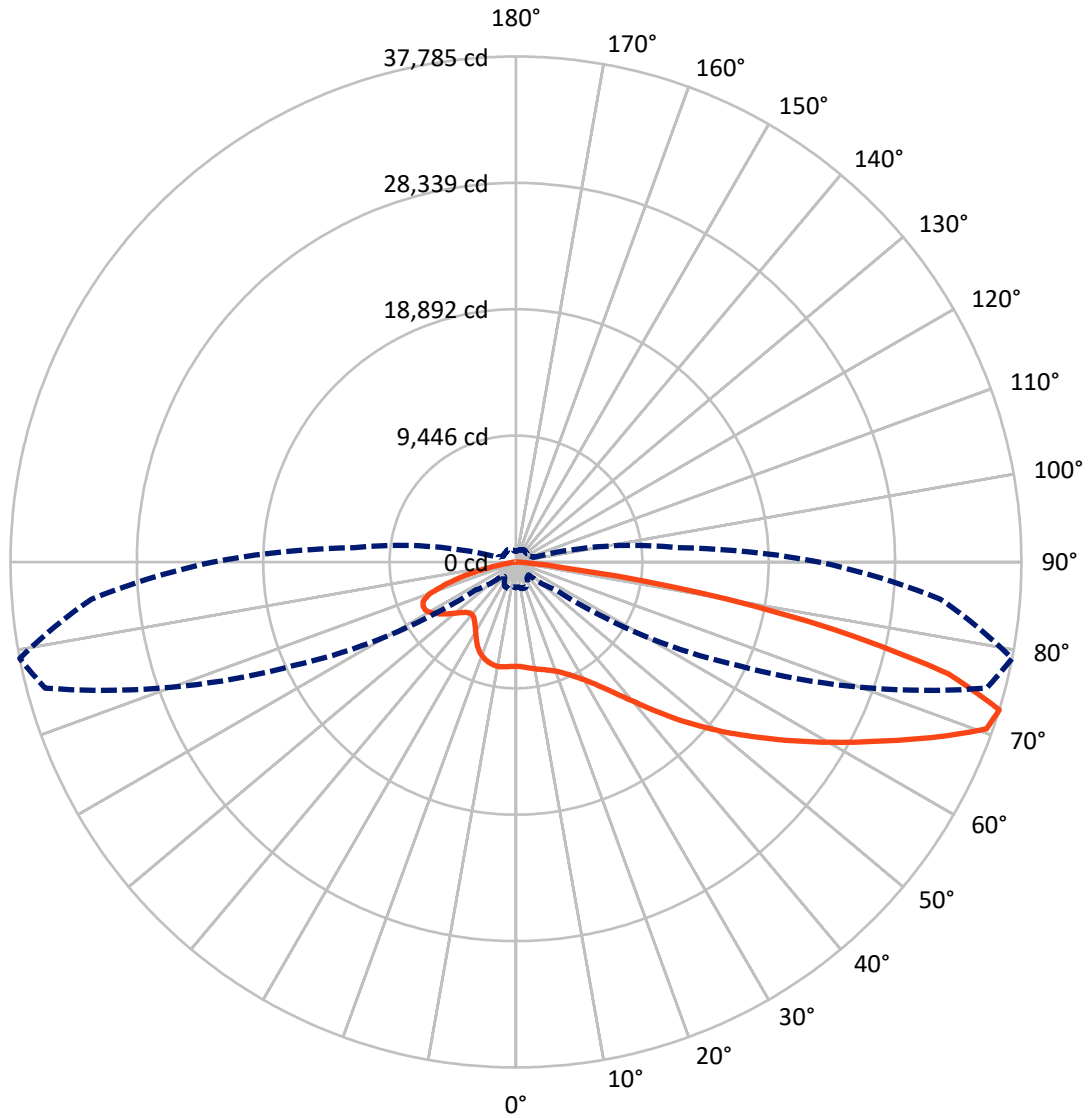
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	8548.0	0.0	8548.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	30297.0	0.0	30297.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	38845.0	0.0	38845.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.8	1.8
10°-20°	1850.6	4.8
20°-30°	2986.1	7.7
30°-40°	4481.7	11.5
40°-50°	6357.5	16.4
50°-60°	8028.7	20.7
60°-70°	8154.2	21.0
70°-80°	5557.5	14.3
80°-90°	721.0	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°	38845.0	100.0
0°-180°	38845.0	100.0



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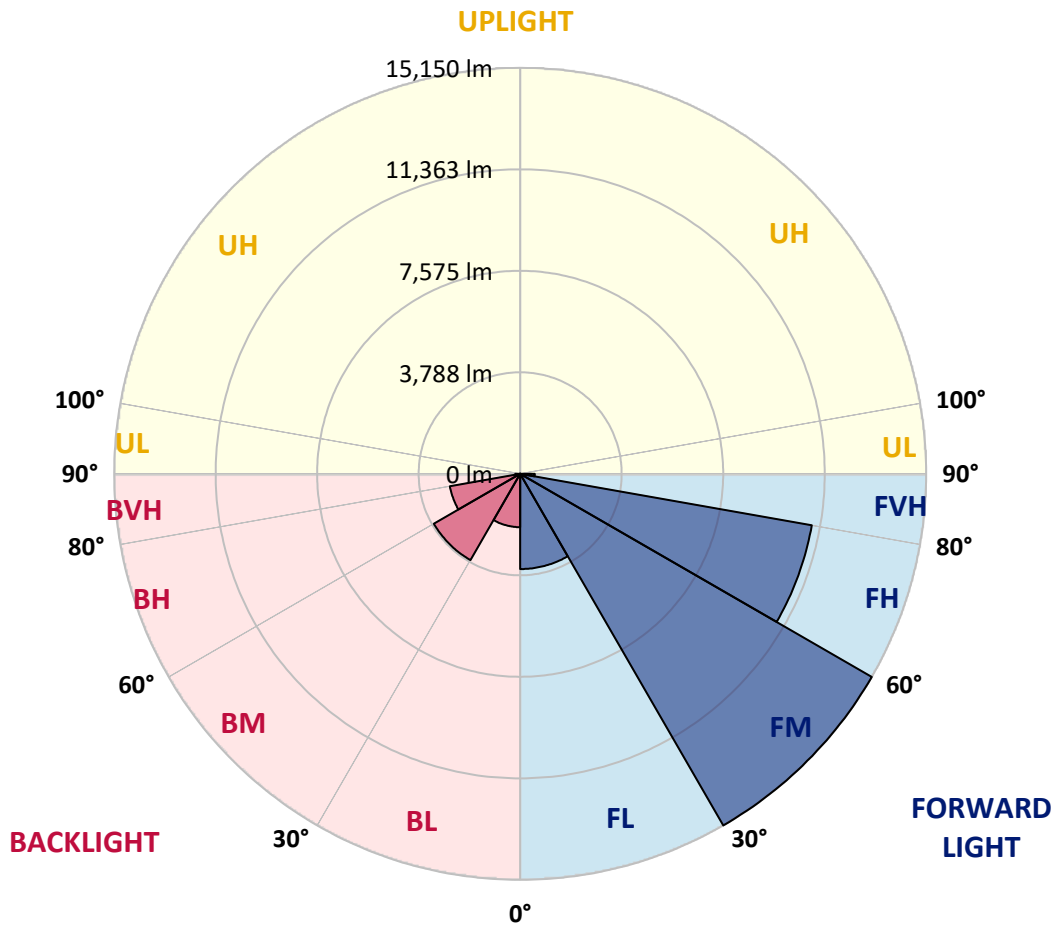
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3553.4	9.1			
FM (30°-60°)	15150.3	39.0			
FH (60°-80°)	11050.1	28.4			G4/12000
FVH (80°-90°)	543.2	1.4			G4/750
BL (0°-30°)	1991.1	5.1	B3/2500		
BM (30°-60°)	3717.5	9.6	B3/5000		
BH (60°-80°)	2661.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	177.9	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°	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8
2.5°	7801.9	7764.9	7787.5	7779.3	7789.5	7801.9	7806.0	7812.1	7832.7	7830.6
5°	7785.4	7748.5	7779.3	7769.0	7795.7	7824.5	7849.1	7871.7	7904.6	7919.0
7.5°	7750.5	7725.8	7756.7	7787.5	7836.8	7880.0	7914.9	7966.3	8013.5	8021.7
10°	7547.1	7528.6	7600.5	7680.6	7816.3	7933.4	8009.4	8069.0	8120.4	8128.6
12.5°	7335.4	7312.8	7393.0	7501.9	7721.7	7933.4	8093.6	8171.7	8216.9	8243.6
15°	7300.5	7282.0	7327.2	7421.7	7604.6	7877.9	8151.2	8295.0	8334.1	8364.9
17.5°	7469.0	7434.1	7452.6	7485.4	7592.3	7826.5	8196.4	8434.7	8494.3	8527.2
20°	7859.4	7810.1	7781.3	7715.6	7697.1	7834.7	8192.3	8603.2	8681.3	8722.4
22.5°	8379.3	8346.4	8284.7	8118.3	7937.5	7935.4	8270.4	8819.0	8964.9	9003.9
25°	9008.0	8958.7	8880.6	8654.6	8307.3	8134.7	8401.9	9094.3	9338.8	9349.1
27.5°	9731.3	9657.3	9550.5	9252.5	8784.0	8447.1	8603.2	9410.7	9768.3	9764.2
30°	10493.6	10419.6	10306.6	9945.0	9355.3	8868.3	8882.7	9751.8	10277.8	10255.2
32.5°	11050.4	10995.0	10972.3	10692.9	10012.8	9365.5	9203.2	10129.9	10906.6	10886.0
35°	11477.8	11405.9	11432.6	11290.8	10729.9	9922.4	9595.7	10579.9	11671.0	11668.9
37.5°	11901.1	11837.4	11860.0	11765.5	11393.6	10629.2	10074.4	11130.6	12618.2	12663.4
40°	12287.4	12219.6	12310.0	12221.6	11909.3	11381.2	10618.9	11753.2	13715.4	13801.7
42.5°	12519.6	12466.1	12616.1	12618.2	12357.2	12016.2	11216.9	12439.4	14985.3	15178.4
45°	12599.7	12581.2	12807.2	12854.5	12753.8	12384.0	11755.2	13187.4	16353.7	16698.9
47.5°	12513.4	12478.5	12790.8	12965.5	13045.6	12556.6	12201.1	13996.9	17751.0	18256.4
50°	12077.8	12010.0	12474.4	12842.2	13127.8	12669.6	12651.1	14931.8	19339.3	19892.0
52.5°	11294.9	11243.6	11771.6	12410.7	12947.0	12725.0	13156.5	15953.1	20847.5	21562.5
55°	10294.3	10226.5	10808.0	11642.2	12497.0	12706.6	13662.0	17095.5	22626.9	23352.2
57.5°	8708.0	8572.4	9308.0	10294.3	11763.4	12684.0	14188.0	18231.8	24435.0	25304.2
60°	6394.4	6193.0	7095.0	8264.2	10329.2	12464.1	14839.4	19505.7	26604.9	27387.7
62.5°	3723.2	3606.1	4195.8	5286.9	7785.4	11169.6	15205.1	20987.2	28737.7	29559.6
65°	2891.0	2858.2	2909.5	2993.8	4333.5	8362.8	14077.1	22431.7	31450.0	32025.3
67.5°	2644.5	2619.8	2642.4	2484.2	2198.6	4658.1	11136.7	22797.4	34355.4	34704.7
70°	2350.6	2321.9	2395.8	2260.2	1730.1	2118.4	7195.7	21470.1	36667.0	37322.4
72.5°	1915.0	1882.1	2054.7	1993.1	1456.8	1360.2	3614.3	18316.0	36424.5	37784.7
75°	1471.2	1452.7	1658.2	1709.5	1187.6	1070.5	1734.2	13614.8	32054.1	33424.6
77.5°	1142.4	1128.1	1232.8	1419.8	957.5	830.1	1066.4	8636.1	24155.6	24396.0
80°	856.8	815.7	912.3	1099.3	745.9	606.2	723.3	5036.2	15268.8	13840.8
82.5°	536.3	515.7	595.9	733.5	526.0	417.1	470.5	2782.1	6119.0	3604.0
85°	306.2	297.9	324.7	419.2	285.6	240.4	269.2	1228.7	1117.8	768.5
87.5°	123.3	119.2	147.9	187.0	104.8	88.4	94.5	295.9	246.6	228.1
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°
7797.8	0°	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8	7797.8
7828.6	2.5°	7820.4	7820.4	7791.6	7746.4	7695.0	7662.2	7608.7	7594.3	7538.9	7522.4
7898.4	5°	7914.9	7898.4	7810.1	7682.7	7508.0	7347.8	7171.1	7060.1	6903.9	6848.5
8036.1	7.5°	8034.1	7988.9	7836.8	7557.4	7191.6	6832.0	6458.1	6174.5	5903.3	5806.7
8149.1	10°	8143.0	8079.3	7820.4	7331.3	6698.5	6075.9	5480.0	5062.9	4746.5	4617.0
8274.5	12.5°	8251.9	8134.7	7711.5	6955.3	5997.8	5153.3	4518.4	4193.7	3998.5	3842.4
8377.2	15°	8354.6	8190.2	7543.0	6451.9	5229.3	4372.5	3904.0	3645.1	3489.0	3386.2
8527.2	17.5°	8473.8	8237.5	7290.2	5812.9	4497.8	3832.1	3449.9	3293.8	3262.9	3250.6
8732.7	20°	8640.2	8280.6	6957.4	5097.8	3959.5	3400.6	3203.4	3189.0	3186.9	3180.7
8979.2	22.5°	8819.0	8332.0	6517.7	4448.5	3501.3	3131.4	3096.5	3067.7	3049.2	3047.2
9277.2	25°	9030.6	8348.4	5967.0	3916.3	3110.9	3004.0	2962.9	2919.8	2907.5	2907.5
9616.2	27.5°	9236.1	8293.0	5325.9	3454.0	2891.0	2886.9	2833.5	2819.1	2817.1	2823.2
10002.5	30°	9441.6	8188.2	4688.9	3026.6	2763.6	2763.6	2745.1	2755.4	2763.6	2784.2
10532.6	32.5°	9719.0	8077.2	4156.8	2710.2	2652.7	2632.1	2650.6	2671.2	2679.4	2706.1
11229.2	35°	10125.8	7999.1	3733.5	2537.6	2537.6	2510.9	2521.2	2517.1	2498.6	2486.2
12071.6	37.5°	10664.1	7995.0	3384.2	2457.5	2441.0	2436.9	2439.0	2412.3	2340.4	2254.1
13090.8	40°	11311.4	8106.0	3115.0	2402.0	2389.7	2414.3	2402.0	2330.1	2132.8	1982.8
14344.2	42.5°	12180.5	8422.4	2942.4	2334.2	2371.2	2402.0	2352.7	2104.1	1970.5	1869.8
15772.2	45°	13203.8	8936.1	2854.0	2262.3	2336.2	2373.2	2134.9	2026.0	1919.1	1797.9
17329.7	47.5°	14362.7	9583.3	2833.5	2194.5	2258.2	2280.8	2042.4	1993.1	1871.9	1740.4
18895.5	50°	15624.3	10349.8	2889.0	2114.3	2145.2	2067.1	2011.6	1966.4	1841.1	1711.6
20500.2	52.5°	16929.1	11194.3	2999.9	2005.4	2032.1	1945.8	1999.3	1960.2	1822.6	1647.9
22158.4	55°	18211.2	12044.9	3106.8	1878.0	1917.1	1836.9	1964.3	1935.6	1738.3	1541.1
23927.5	57.5°	19513.9	12891.5	3211.6	1765.0	1806.1	1732.2	1908.9	1869.8	1643.8	1442.4
25859.0	60°	20868.0	13713.4	3260.9	1656.1	1684.9	1635.6	1824.6	1756.8	1537.0	1341.7
27757.6	62.5°	22135.8	14397.6	3180.7	1547.2	1565.7	1545.2	1713.7	1623.3	1430.1	1228.7
29736.3	65°	23407.7	14804.5	2934.2	1440.4	1444.5	1434.2	1557.5	1479.4	1304.8	1130.1
31468.4	67.5°	24560.4	15032.5	2541.7	1325.3	1315.0	1310.9	1411.6	1323.3	1183.5	1031.5
32785.5	70°	24804.9	14453.1	1941.7	1189.7	1189.7	1179.4	1251.3	1160.9	1050.0	926.7
31842.4	72.5°	22655.6	12157.9	1378.7	1035.6	1052.0	1031.5	1091.1	1015.0	914.4	832.2
27443.2	75°	18268.8	8915.5	1002.7	877.4	906.1	871.2	926.7	873.3	787.0	784.9
18911.9	77.5°	12552.4	5512.9	727.4	723.3	743.8	698.6	762.3	733.5	655.5	620.5
8231.3	80°	5356.7	2198.6	530.1	558.9	558.9	517.8	591.8	600.0	532.2	515.7
1588.3	82.5°	1066.4	624.6	371.9	384.2	361.6	349.3	419.2	464.4	641.1	713.0
478.8	85°	320.5	230.1	224.0	209.6	184.9	187.0	246.6	466.4	575.3	328.8
158.2	87.5°	88.4	57.5	59.6	47.3	39.0	51.4	84.2	353.4	193.1	82.2
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>
7797.8
7549.1
6889.6
5819.0
4645.8
3893.7
3404.7
3258.8
3201.3
3069.8
2919.8
2839.7
2798.6
2728.7
2515.0
2256.1
1978.7
1865.7
1789.7
1730.1
1697.2
1635.6
1530.8
1438.3
1335.6
1226.7
1117.8
1019.2
922.6
807.5
706.8
581.5
515.7
715.1
283.6
69.9
0.0

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