

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: P955042

Luminaire Tested: **GALN-SB8A-840-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955042  
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-SB8A-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

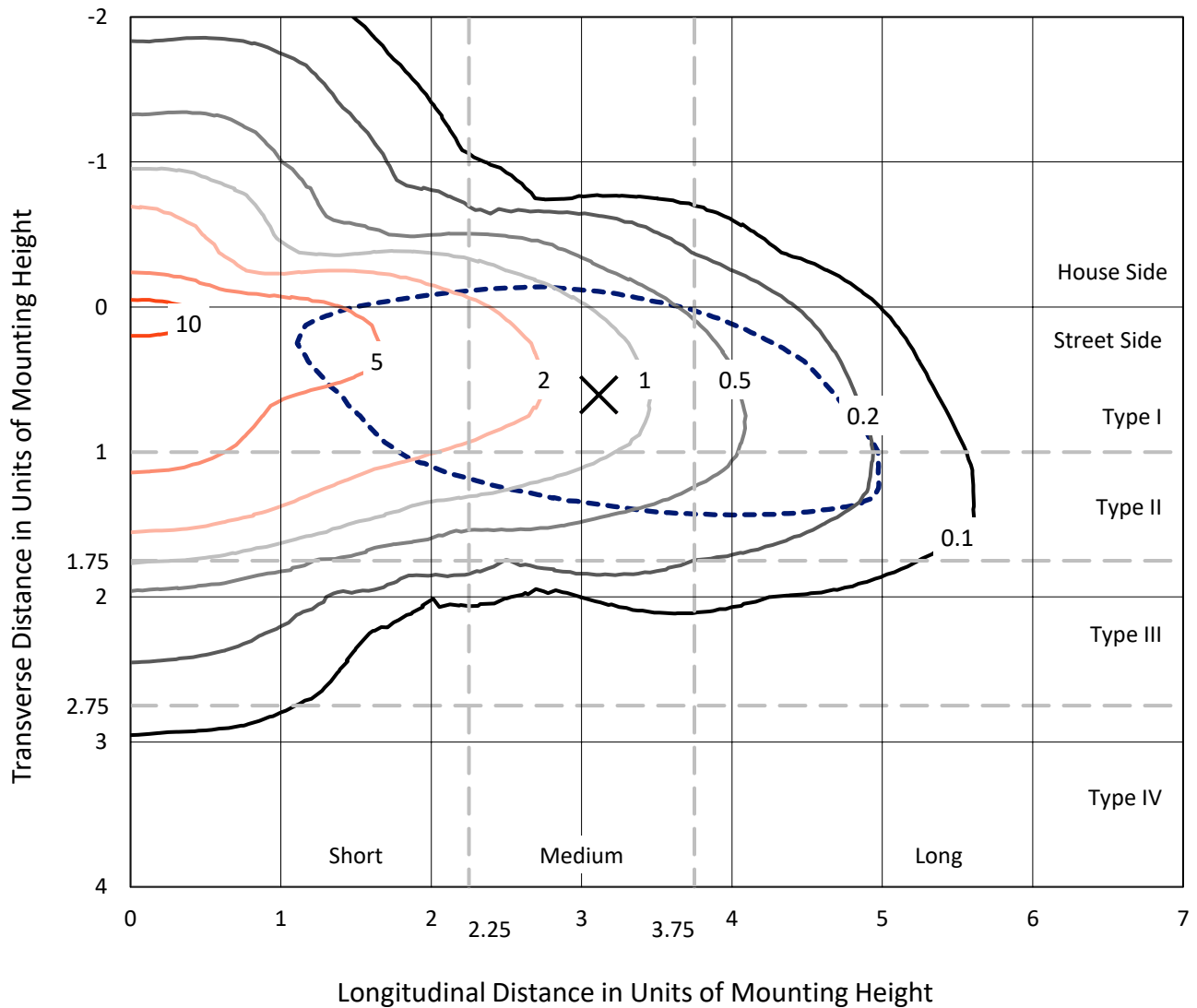
Lumens per Lamp: N/A  
Luminaire Lumens: 34486 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

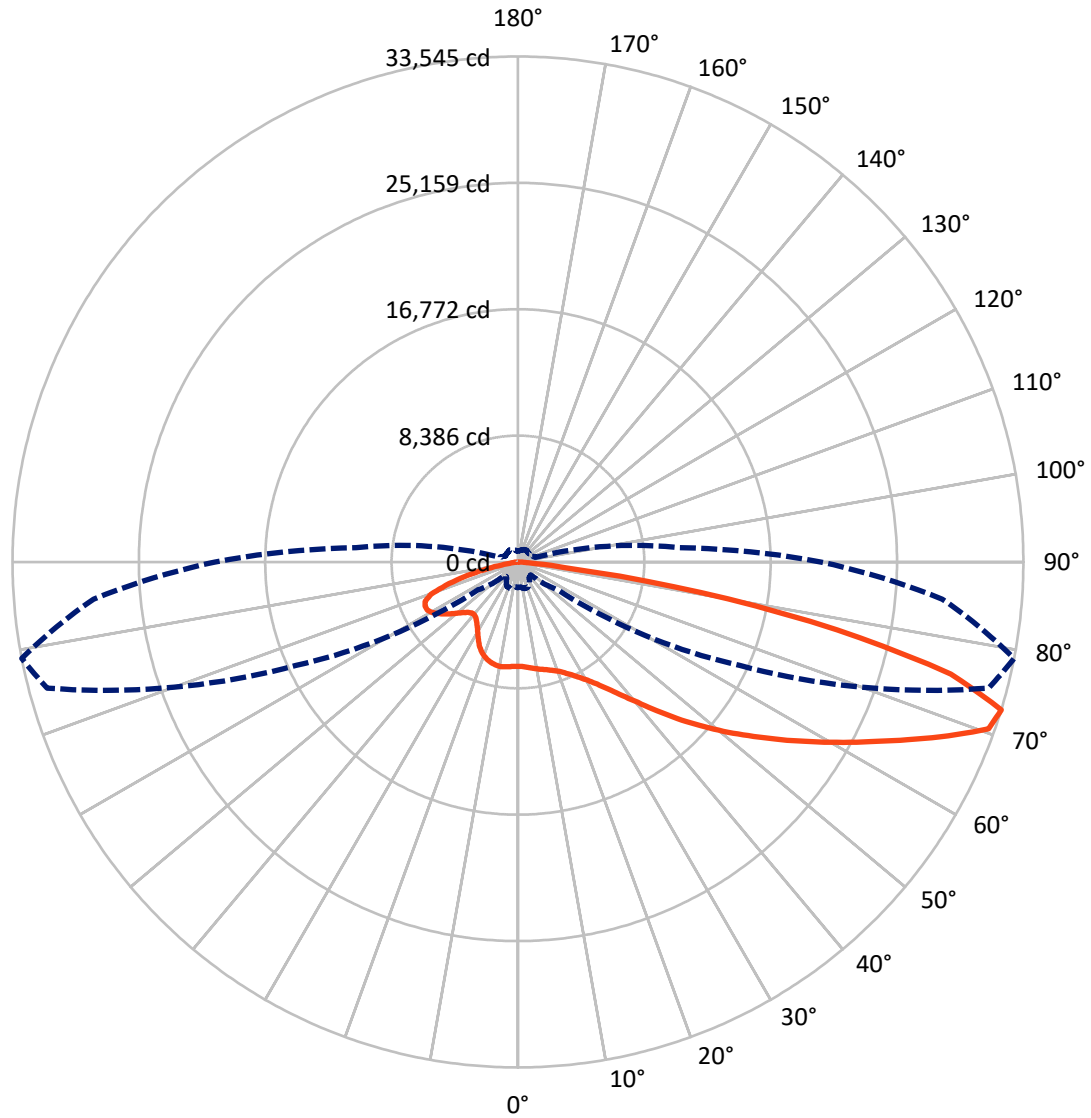
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	7588.8	0.0	7588.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	26897.2	0.0	26897.2
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	34486.0	0.0	34486.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.4	1.8
10°-20°	1642.9	4.8
20°-30°	2651.0	7.7
30°-40°	3978.8	11.5
40°-50°	5644.1	16.4
50°-60°	7127.7	20.7
60°-70°	7239.2	21.0
70°-80°	4933.8	14.3
80°-90°	640.1	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°	34486.0	100.0
0°-180°	34486.0	100.0



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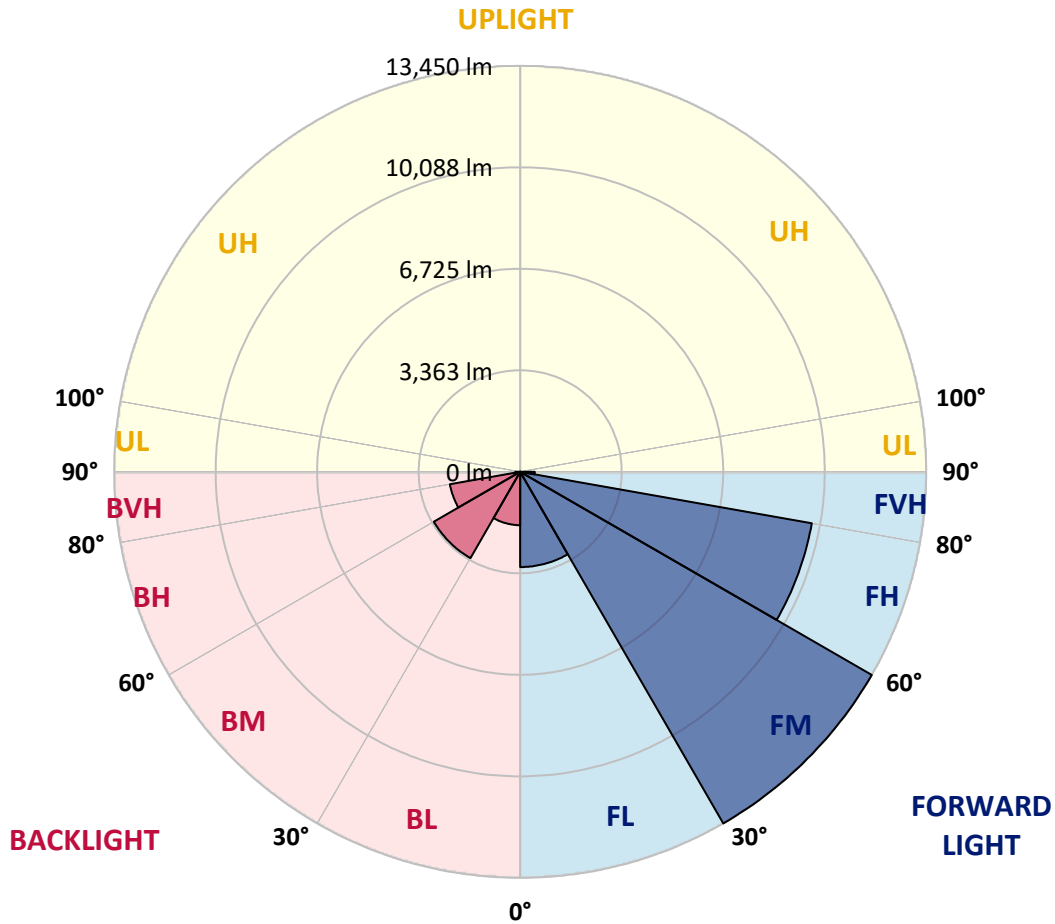
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.6	9.1			
FM (30°-60°)	13450.2	39.0			
FH (60°-80°)	9810.1	28.4			G4/12000
FVH (80°-90°)	482.2	1.4			G3/500
BL (0°-30°)	1767.7	5.1	B3/2500		
BM (30°-60°)	3300.3	9.6	B3/5000		
BH (60°-80°)	2362.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	157.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7
2.5°	6926.4	6893.5	6913.6	6906.3	6915.4	6926.4	6930.0	6935.5	6953.7	6951.9
5°	6911.8	6879.0	6906.3	6897.2	6920.9	6946.5	6968.3	6988.4	7017.6	7030.4
7.5°	6880.8	6858.9	6886.3	6913.6	6957.4	6995.7	7026.7	7072.3	7114.3	7121.6
10°	6700.2	6683.8	6747.6	6818.8	6939.2	7043.1	7110.6	7163.5	7209.1	7216.4
12.5°	6512.3	6492.2	6563.4	6660.1	6855.2	7043.1	7185.4	7254.7	7294.9	7318.6
15°	6481.3	6464.9	6505.0	6588.9	6751.3	6993.9	7236.5	7364.2	7398.8	7426.2
17.5°	6630.9	6599.9	6616.3	6645.5	6740.3	6948.3	7276.6	7488.2	7541.1	7570.3
20°	6977.5	6933.7	6908.1	6849.8	6833.4	6955.6	7273.0	7637.8	7707.1	7743.6
22.5°	7439.0	7409.8	7355.1	7207.3	7046.8	7045.0	7342.3	7829.4	7958.9	7993.5
25°	7997.2	7953.4	7884.1	7683.4	7375.1	7221.9	7459.0	8073.8	8290.9	8300.0
27.5°	8639.3	8573.6	8478.8	8214.3	7798.3	7499.2	7637.8	8354.7	8672.1	8668.5
30°	9316.1	9250.4	9150.1	8829.0	8305.5	7873.1	7885.9	8657.5	9124.5	9104.4
32.5°	9810.4	9761.1	9741.1	9493.0	8889.2	8314.6	8170.5	8993.2	9682.7	9664.5
35°	10189.8	10126.0	10149.7	10023.8	9525.8	8808.9	8518.9	9392.7	10361.3	10359.5
37.5°	10565.6	10509.1	10529.1	10445.2	10115.0	9436.4	8943.9	9881.5	11202.2	11242.4
40°	10908.6	10848.4	10928.6	10850.2	10572.9	10104.1	9427.3	10434.3	12176.4	12253.0
42.5°	11114.7	11067.3	11200.4	11202.2	10970.6	10667.8	9958.2	11043.5	13303.7	13475.2
45°	11185.8	11169.4	11370.1	11412.0	11322.6	10994.3	10436.1	11707.5	14518.6	14825.1
47.5°	11109.2	11078.2	11355.5	11510.5	11581.7	11147.5	10831.9	12426.3	15759.0	16207.8
50°	10722.5	10662.3	11074.6	11401.1	11654.6	11247.9	11231.4	13256.3	17169.1	17659.8
52.5°	10027.5	9981.9	10450.7	11018.0	11494.1	11297.1	11680.2	14162.9	18508.1	19142.9
55°	9139.1	9078.9	9595.2	10335.8	11094.6	11280.7	12128.9	15177.1	20087.8	20731.7
57.5°	7730.8	7610.4	8263.5	9139.1	10443.4	11260.6	12595.9	16185.9	21693.1	22464.7
60°	5676.8	5498.1	6298.9	7336.8	9170.1	11065.4	13174.2	17316.9	23619.4	24314.4
62.5°	3305.4	3201.4	3725.0	4693.6	6911.8	9916.2	13498.9	18632.1	25512.9	26242.6
65°	2566.6	2537.4	2583.0	2657.8	3847.2	7424.4	12497.4	19914.5	27920.8	28431.6
67.5°	2347.7	2325.8	2345.9	2205.4	1951.9	4135.4	9887.0	20239.2	30500.2	30810.3
70°	2086.9	2061.3	2127.0	2006.6	1536.0	1880.7	6388.3	19060.8	32552.4	33134.3
72.5°	1700.1	1670.9	1824.2	1769.4	1293.3	1207.6	3208.7	16260.7	32337.1	33544.7
75°	1306.1	1289.7	1472.1	1517.7	1054.4	950.4	1539.6	12087.0	28457.1	29673.8
77.5°	1014.2	1001.5	1094.5	1260.5	850.1	737.0	946.7	7667.0	21445.0	21658.4
80°	760.7	724.2	809.9	975.9	662.2	538.1	642.1	4471.0	13555.4	12287.6
82.5°	476.1	457.9	529.0	651.2	467.0	370.3	417.7	2469.9	5432.4	3199.6
85°	271.8	264.5	288.2	372.1	253.6	213.4	239.0	1090.9	992.4	682.2
87.5°	109.5	105.8	131.3	166.0	93.0	78.4	83.9	262.7	218.9	202.5
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°
6922.7	0°	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7	6922.7
6950.1	2.5°	6942.8	6942.8	6917.3	6877.1	6831.5	6802.3	6754.9	6742.1	6692.9	6678.3
7012.1	5°	7026.7	7012.1	6933.7	6820.6	6665.5	6523.2	6366.4	6267.9	6129.2	6080.0
7134.3	7.5°	7132.5	7092.4	6957.4	6709.3	6384.6	6065.4	5733.4	5481.6	5240.8	5155.1
7234.7	10°	7229.2	7172.6	6942.8	6508.6	5946.8	5394.1	4865.1	4494.8	4213.8	4098.9
7345.9	12.5°	7325.9	7221.9	6846.1	6174.8	5324.8	4575.0	4011.4	3723.1	3549.8	3411.2
7437.2	15°	7417.1	7271.2	6696.5	5727.9	4642.5	3881.8	3465.9	3236.1	3097.4	3006.2
7570.3	17.5°	7522.9	7313.1	6472.2	5160.6	3993.1	3402.1	3062.8	2924.1	2896.8	2885.8
7752.7	20°	7670.6	7351.4	6176.6	4525.8	3515.2	3019.0	2843.9	2831.1	2829.3	2823.8
7971.6	22.5°	7829.4	7397.0	5786.3	3949.3	3108.4	2780.0	2749.0	2723.5	2707.1	2705.2
8236.1	25°	8017.2	7411.6	5297.4	3476.9	2761.8	2666.9	2630.5	2592.1	2581.2	2581.2
8537.1	27.5°	8199.7	7362.4	4728.3	3066.4	2566.6	2563.0	2515.5	2502.8	2500.9	2506.4
8880.1	30°	8382.1	7269.3	4162.8	2687.0	2453.5	2453.5	2437.1	2446.2	2453.5	2471.8
9350.7	32.5°	8628.3	7170.8	3690.3	2406.1	2355.0	2336.8	2353.2	2371.4	2378.7	2402.4
9969.1	35°	8989.5	7101.5	3314.5	2252.9	2252.9	2229.1	2238.3	2234.6	2218.2	2207.2
10717.0	37.5°	9467.5	7097.9	3004.4	2181.7	2167.1	2163.5	2165.3	2141.6	2077.7	2001.1
11621.8	40°	10042.1	7196.4	2765.4	2132.5	2121.5	2143.4	2132.5	2068.6	1893.5	1760.3
12734.6	42.5°	10813.7	7477.3	2612.2	2072.3	2105.1	2132.5	2088.7	1868.0	1749.4	1660.0
14002.4	45°	11722.1	7933.3	2533.8	2008.4	2074.1	2106.9	1895.3	1798.6	1703.8	1596.2
15385.1	47.5°	12751.0	8507.9	2515.5	1948.2	2004.8	2024.8	1813.2	1769.4	1661.8	1545.1
16775.1	50°	13871.0	9188.4	2564.8	1877.1	1904.4	1835.1	1785.9	1745.7	1634.5	1519.5
18199.8	52.5°	15029.4	9938.1	2663.3	1780.4	1804.1	1727.5	1774.9	1740.3	1618.0	1463.0
19671.9	55°	16167.6	10693.3	2758.1	1667.3	1702.0	1630.8	1743.9	1718.4	1543.3	1368.1
21242.5	57.5°	17324.2	11444.9	2851.2	1567.0	1603.4	1537.8	1694.7	1660.0	1459.3	1280.6
22957.2	60°	18526.3	12174.5	2895.0	1470.3	1495.8	1452.0	1619.9	1559.7	1364.5	1191.2
24642.8	62.5°	19651.8	12782.0	2823.8	1373.6	1390.0	1371.8	1521.4	1441.1	1269.6	1090.9
26399.4	65°	20781.0	13143.2	2604.9	1278.7	1282.4	1273.3	1382.7	1313.4	1158.3	1003.3
27937.2	67.5°	21804.3	13345.6	2256.5	1176.6	1167.5	1163.8	1253.2	1174.8	1050.7	915.7
29106.5	70°	22021.4	12831.2	1723.8	1056.2	1056.2	1047.1	1110.9	1030.7	932.2	822.7
28269.2	72.5°	20113.3	10793.6	1224.0	919.4	934.0	915.7	968.6	901.1	811.8	738.8
24363.7	75°	16218.7	7915.1	890.2	778.9	804.5	773.4	822.7	775.3	698.7	696.8
16789.7	77.5°	11143.9	4894.3	645.8	642.1	660.4	620.2	676.8	651.2	581.9	550.9
7307.6	80°	4755.6	1951.9	470.6	496.2	496.2	459.7	525.4	532.7	472.5	457.9
1410.1	82.5°	946.7	554.5	330.2	341.1	321.1	310.1	372.1	412.3	569.1	633.0
425.0	85°	284.6	204.3	198.8	186.1	164.2	166.0	218.9	414.1	510.8	291.9
140.5	87.5°	78.4	51.1	52.9	42.0	34.7	45.6	74.8	313.8	171.5	73.0
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>
6922.7
6702.0
6116.5
5166.1
4124.5
3456.8
3022.7
2893.1
2842.1
2725.3
2592.1
2521.0
2484.5
2422.5
2232.8
2002.9
1756.7
1656.3
1588.9
1536.0
1506.8
1452.0
1359.0
1276.9
1185.7
1089.0
992.4
904.8
819.1
716.9
627.5
516.2
457.9
634.8
251.7
62.0
0.0

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