

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: P951495

Luminaire Tested: **GALN-SB5C-850-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951495  
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-SB5C-850-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

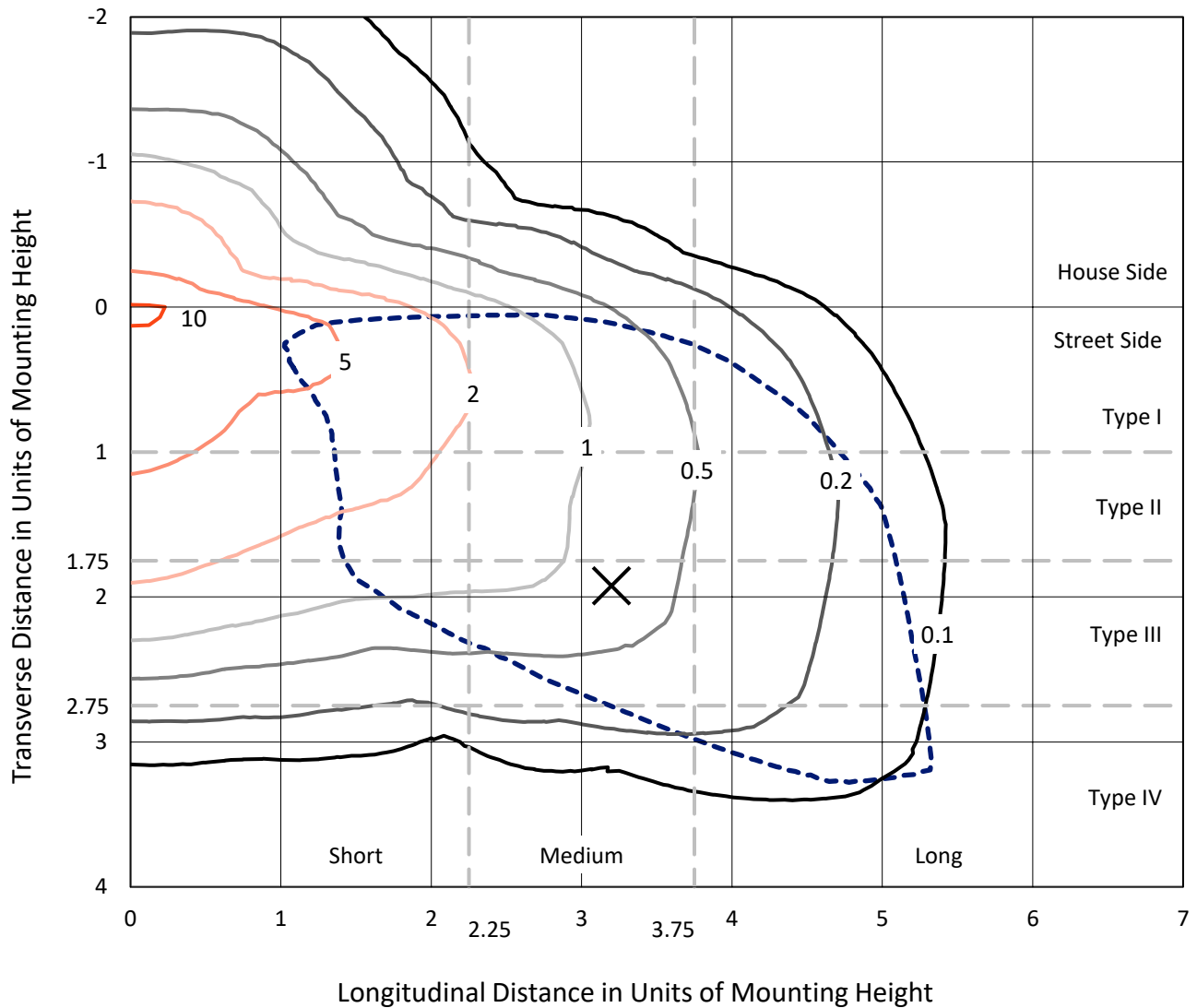
Lumens per Lamp: N/A  
Luminaire Lumens: 35366 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

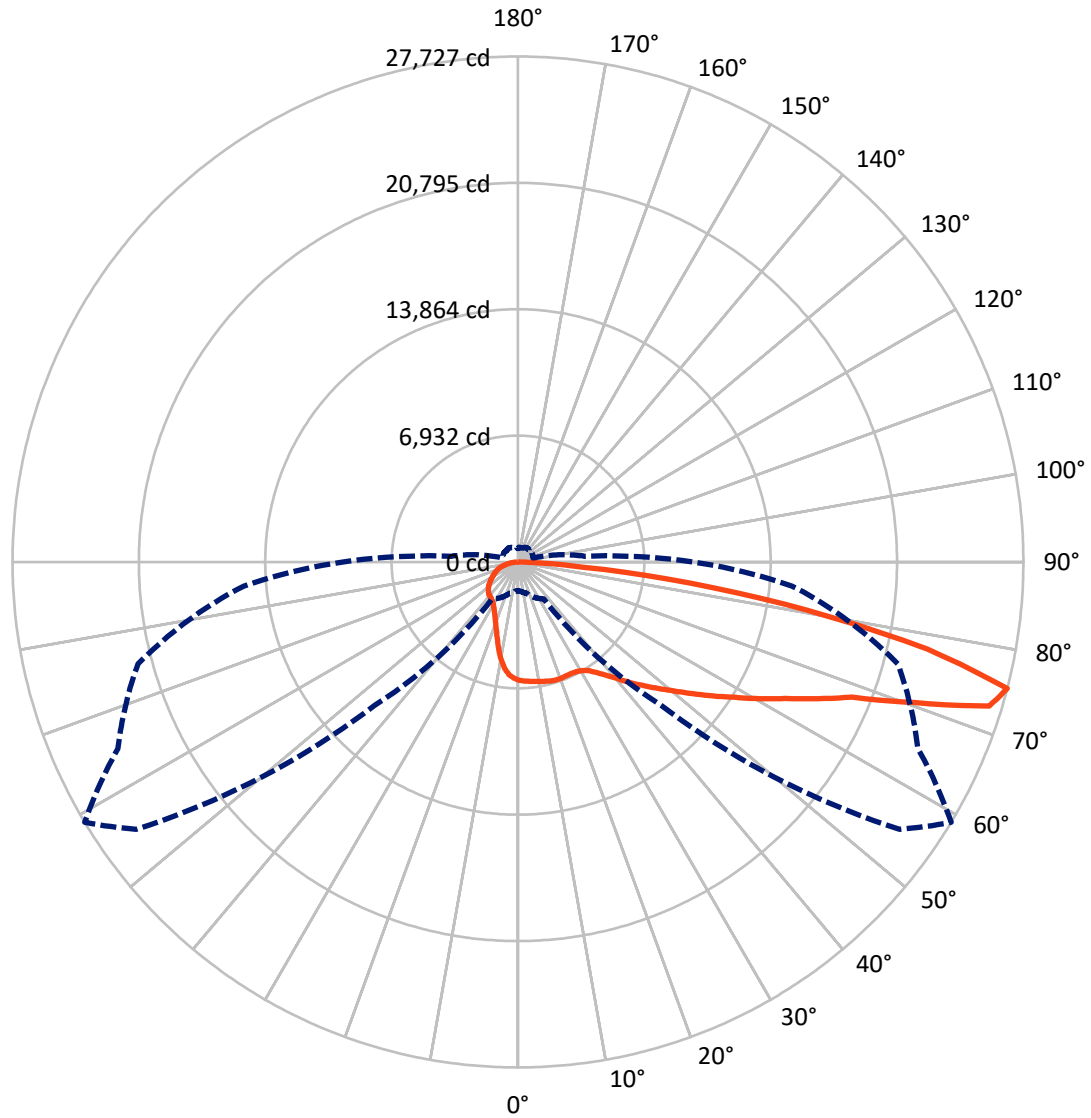
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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
<b>House Side</b>	Lumens	6633.1	0.0	6633.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28732.9	0.0	28732.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	35366.0	0.0	35366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.1	1.6
10°-20°	1487.8	4.2
20°-30°	2259.8	6.4
30°-40°	3359.1	9.5
40°-50°	4995.6	14.1
50°-60°	6781.0	19.2
60°-70°	8278.4	23.4
70°-80°	6496.8	18.4
80°-90°	1125.4	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°	35366.0	100.0
0°-180°	35366.0	100.0

**Coefficient of Utilization**



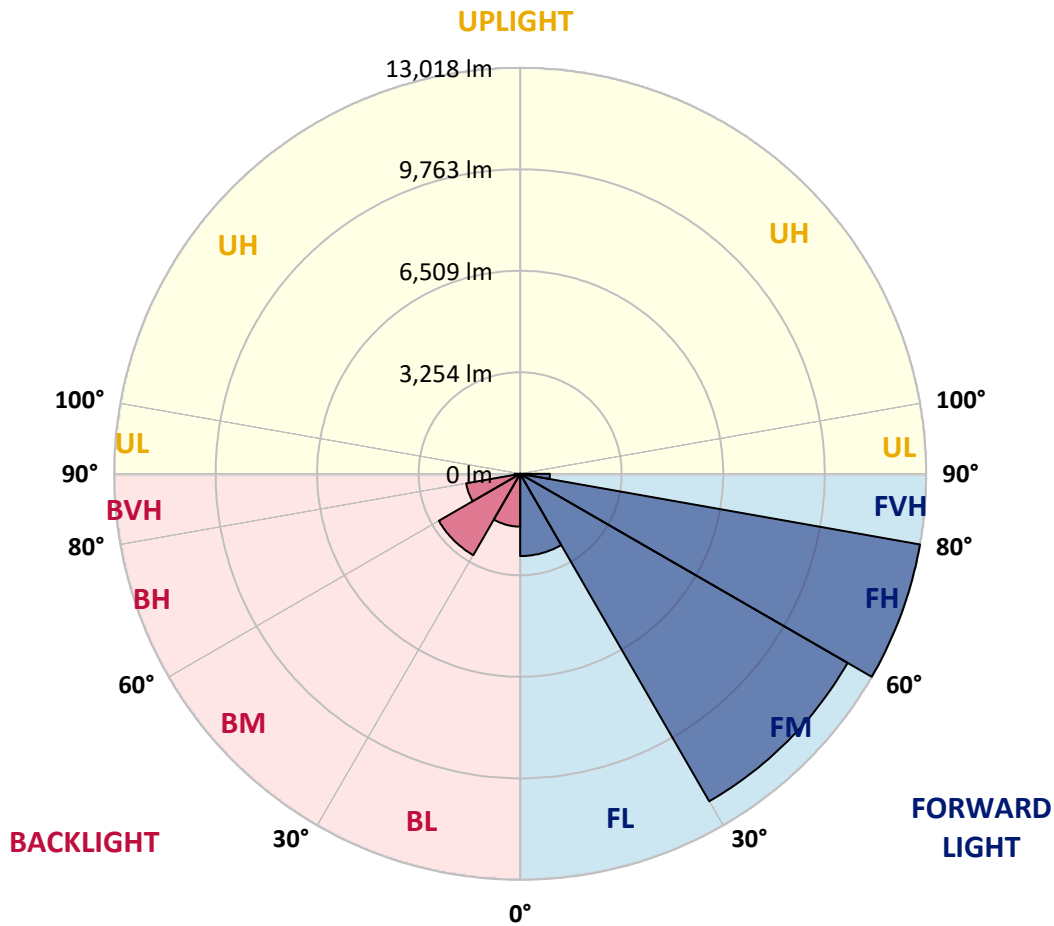
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2636.9	7.5			
FM (30°-60°)	12124.9	34.3			
FH (60°-80°)	13017.9	36.8			G5
FVH (80°-90°)	953.1	2.7			G5
BL (0°-30°)	1692.7	4.8	B3/2500		
BM (30°-60°)	3010.8	8.5	B3/5000		
BH (60°-80°)	1757.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	172.3	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°	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4
2.5°	6546.5	6523.7	6546.5	6537.0	6533.2	6525.6	6527.5	6540.8	6533.2	6542.7
5°	6502.8	6489.4	6512.3	6506.6	6531.3	6535.1	6559.8	6575.1	6584.6	6586.5
7.5°	6430.5	6417.2	6449.5	6476.1	6529.4	6544.6	6596.0	6620.7	6634.0	6656.9
10°	6166.0	6160.3	6240.2	6341.1	6466.6	6544.6	6622.6	6664.5	6685.4	6746.3
12.5°	5698.0	5705.6	5810.3	6004.3	6255.4	6506.6	6653.1	6713.9	6746.3	6822.4
15°	5250.9	5249.0	5363.2	5570.5	5922.5	6339.2	6668.3	6772.9	6828.1	6940.3
17.5°	4992.2	4984.6	5064.5	5222.4	5549.6	6082.3	6630.2	6805.3	6923.2	7064.0
20°	4944.6	4929.4	4971.2	5049.3	5281.4	5800.7	6531.3	6805.3	6999.3	7182.0
22.5°	5117.7	5093.0	5075.9	5066.4	5169.1	5568.6	6419.1	6782.4	7111.6	7351.3
25°	5465.9	5427.8	5340.3	5254.7	5224.3	5464.0	6320.1	6776.7	7279.0	7579.6
27.5°	6029.0	5981.5	5804.5	5599.1	5414.5	5517.3	6276.4	6811.0	7463.5	7821.2
30°	6727.3	6675.9	6453.3	6137.5	5806.4	5715.1	6331.5	6911.8	7699.4	8142.7
32.5°	7353.2	7296.1	7105.9	6784.3	6337.2	6057.6	6506.6	7104.0	8070.4	8589.8
35°	7908.7	7842.1	7670.9	7374.1	6987.9	6538.9	6822.4	7444.5	8597.4	9316.6
37.5°	8452.8	8374.8	8188.4	7874.5	7604.3	7180.1	7258.1	7882.1	9297.5	10199.3
40°	9061.6	8949.4	8723.0	8412.9	8150.3	7931.5	7830.7	8418.6	10009.1	11184.8
42.5°	9651.4	9544.9	9274.7	9010.3	8681.1	8618.4	8494.7	9046.4	10787.2	12267.4
45°	10286.8	10159.4	9832.2	9497.3	9289.9	9075.0	9137.7	9674.2	11550.1	13370.8
47.5°	10882.3	10739.6	10353.4	9980.5	9866.4	9459.3	9727.5	10364.9	12343.5	14489.5
50°	11203.9	11063.1	10741.5	10404.8	10315.4	9933.0	10366.8	11124.0	13174.9	15604.4
52.5°	11472.1	11319.9	10899.5	10713.0	10686.4	10448.6	11154.4	11991.5	14006.2	16589.9
55°	11757.5	11588.2	11051.7	10884.2	11006.0	11026.9	12088.5	12975.1	14885.2	17550.6
57.5°	12086.6	11871.6	11198.2	11028.8	11318.0	11704.2	13161.5	13994.8	15748.9	18441.0
60°	12396.7	12179.8	11479.7	11259.0	11654.8	12490.0	14392.5	15229.6	16726.8	19234.3
62.5°	12457.6	12278.8	11704.2	11702.3	12111.4	13407.0	15849.8	16475.7	17581.1	20018.2
65°	11403.6	11291.4	10950.8	11685.2	12765.8	14727.3	17472.6	18070.0	18667.4	20703.1
67.5°	8679.2	8694.5	8669.7	10087.1	12236.9	16624.1	19822.2	19776.5	20008.7	21471.7
70°	3968.6	4058.0	4640.2	6963.2	9803.6	16842.9	23707.1	23115.4	21692.4	22466.7
72.5°	2144.1	2212.6	2450.4	3373.1	5894.0	14974.6	26610.4	27030.8	23931.6	23136.4
75°	1573.4	1611.4	1776.9	2144.1	2475.2	11129.7	25569.7	27727.1	24211.3	21574.4
77.5°	1177.7	1194.8	1329.9	1698.9	1267.1	5867.3	20431.0	22963.2	20725.9	17725.6
80°	854.2	873.3	974.1	1274.7	888.5	2146.0	14029.1	16118.0	14194.6	11299.0
82.5°	589.8	597.4	641.1	867.5	620.2	833.3	7960.1	9451.6	7923.9	3964.8
85°	355.8	365.3	384.3	506.1	352.0	395.7	3435.9	3553.9	2368.6	947.4
87.5°	146.5	156.0	171.2	213.1	138.9	110.3	566.9	711.5	443.3	277.8
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°
6491.4	0°	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4	6491.4
6510.4	2.5°	6500.9	6487.5	6451.4	6401.9	6356.3	6299.2	6274.5	6253.5	6234.5	6198.4
6561.7	5°	6540.8	6504.7	6407.6	6282.1	6139.4	5983.4	5831.2	5726.5	5637.1	5570.5
6620.7	7.5°	6601.7	6533.2	6356.3	6099.4	5772.2	5437.4	5134.9	4919.9	4758.2	4699.2
6704.4	10°	6664.5	6582.7	6274.5	5821.7	5256.6	4741.0	4339.6	4118.9	3989.6	3947.7
6803.4	12.5°	6738.7	6618.8	6147.0	5435.5	4680.2	4115.1	3765.1	3635.7	3569.1	3546.3
6925.1	15°	6847.1	6649.3	5954.8	4952.2	4130.3	3658.5	3432.1	3342.7	3308.5	3306.6
7050.7	17.5°	6928.9	6655.0	5656.2	4434.7	3708.0	3382.7	3196.2	3162.0	3184.8	3219.0
7174.4	20°	7020.2	6603.6	5264.2	3962.9	3411.2	3141.0	3063.0	3085.9	3141.0	3190.5
7338.0	22.5°	7084.9	6510.4	4790.5	3595.7	3154.4	3002.2	2998.3	3045.9	3076.4	3101.1
7530.1	25°	7142.0	6352.5	4288.2	3287.5	2943.2	2918.4	2960.3	2945.1	2924.2	2945.1
7722.3	27.5°	7183.9	6103.2	3839.3	3017.4	2794.8	2861.4	2836.6	2802.4	2800.5	2811.9
7948.7	30°	7170.5	5770.3	3470.2	2760.5	2690.1	2754.8	2695.9	2690.1	2684.4	2690.1
8289.2	32.5°	7170.5	5391.7	3186.7	2583.6	2623.6	2598.8	2593.1	2579.8	2557.0	2555.1
8751.5	35°	7210.5	5013.1	2943.2	2488.5	2568.4	2509.4	2513.2	2480.9	2433.3	2410.5
9364.1	37.5°	7292.3	4708.7	2701.6	2442.8	2471.4	2469.5	2454.2	2399.1	2315.3	2243.1
10128.9	40°	7490.2	4619.3	2536.0	2421.9	2425.7	2448.5	2408.6	2302.0	2111.8	1993.8
10905.2	42.5°	7800.3	4769.6	2499.9	2370.5	2395.3	2418.1	2340.1	2092.8	1957.7	1887.3
11719.4	45°	8194.1	5032.1	2577.9	2296.3	2323.0	2362.9	2130.8	2012.9	1952.0	1953.9
12526.1	47.5°	8692.5	5308.0	2722.5	2231.6	2218.3	2241.2	1991.9	1919.6	1835.9	1856.8
13300.4	50°	9269.0	5587.7	2859.5	2144.1	2102.3	2028.1	1902.5	1834.0	1727.5	1678.0
14048.1	52.5°	9893.0	5857.8	2914.6	2037.6	1976.7	1891.1	1841.6	1757.9	1628.5	1546.7
14753.9	55°	10484.7	6103.2	2853.8	1910.1	1851.1	1784.6	1776.9	1725.6	1586.7	1472.5
15381.8	57.5°	11044.0	6308.7	2701.6	1780.7	1723.7	1683.7	1735.1	1710.4	1535.3	1388.8
15975.3	60°	11517.8	6449.5	2480.9	1649.5	1609.5	1588.6	1666.6	1659.0	1463.0	1299.4
16508.0	62.5°	11894.5	6504.7	2237.3	1523.9	1514.4	1476.3	1571.5	1571.5	1371.7	1211.9
16976.1	65°	12189.4	6451.4	1990.0	1400.2	1419.3	1362.2	1455.4	1444.0	1274.7	1133.9
17514.5	67.5°	12450.0	6276.4	1716.1	1278.5	1322.2	1249.9	1333.7	1307.0	1168.1	1055.9
17980.6	70°	12566.1	5869.2	1404.0	1156.7	1210.0	1139.6	1211.9	1162.4	1048.3	972.2
17468.8	72.5°	11633.8	4878.0	1105.4	1029.3	1074.9	1017.8	1080.6	1023.5	918.9	884.7
15085.0	75°	9624.8	3660.4	850.4	890.4	924.6	880.9	922.7	880.9	785.7	810.5
11143.0	77.5°	6989.8	2471.4	650.7	743.9	759.1	736.3	772.4	724.9	639.2	633.5
5553.4	80°	3475.9	1447.8	509.9	587.9	582.2	566.9	608.8	586.0	513.7	544.1
1499.2	82.5°	1006.4	620.2	371.0	412.8	401.4	405.2	435.7	447.1	669.7	664.0
466.1	85°	315.8	243.5	222.6	230.2	218.8	224.5	256.8	509.9	471.8	275.9
144.6	87.5°	81.8	83.7	55.2	59.0	60.9	72.3	81.8	310.1	148.4	97.0
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>
6491.4
6181.2
5515.4
4596.5
3883.0
3552.0
3314.2
3232.4
3207.6
3114.4
2958.4
2830.9
2711.1
2579.8
2433.3
2267.8
2009.0
1887.3
1963.4
1910.1
1691.3
1544.8
1472.5
1381.2
1293.7
1206.2
1126.3
1048.3
957.0
856.1
740.1
605.0
538.4
679.2
298.7
102.7
0.0

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