

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: P951432

Luminaire Tested: **GALN-SB5C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951432
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 33222 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

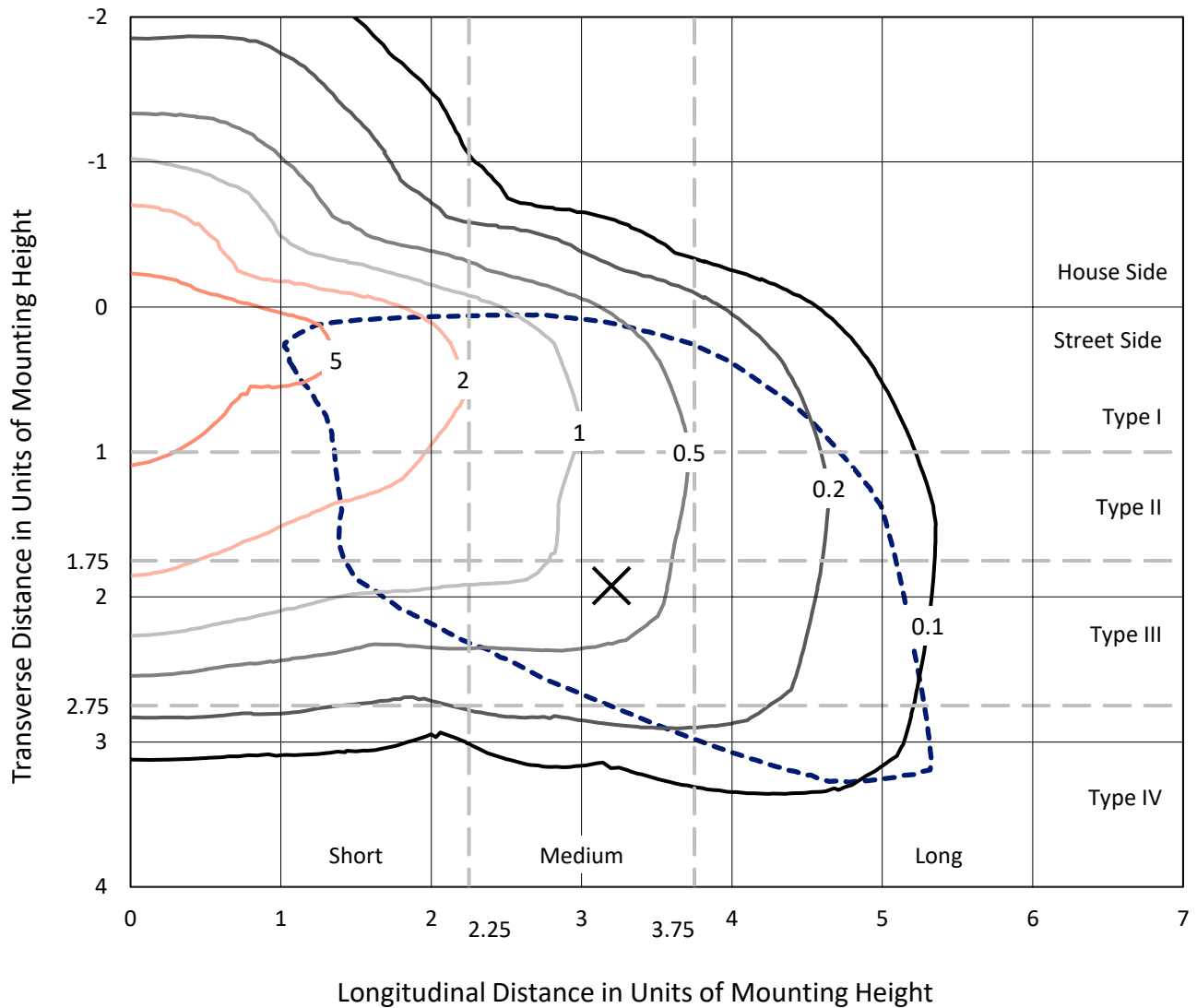
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

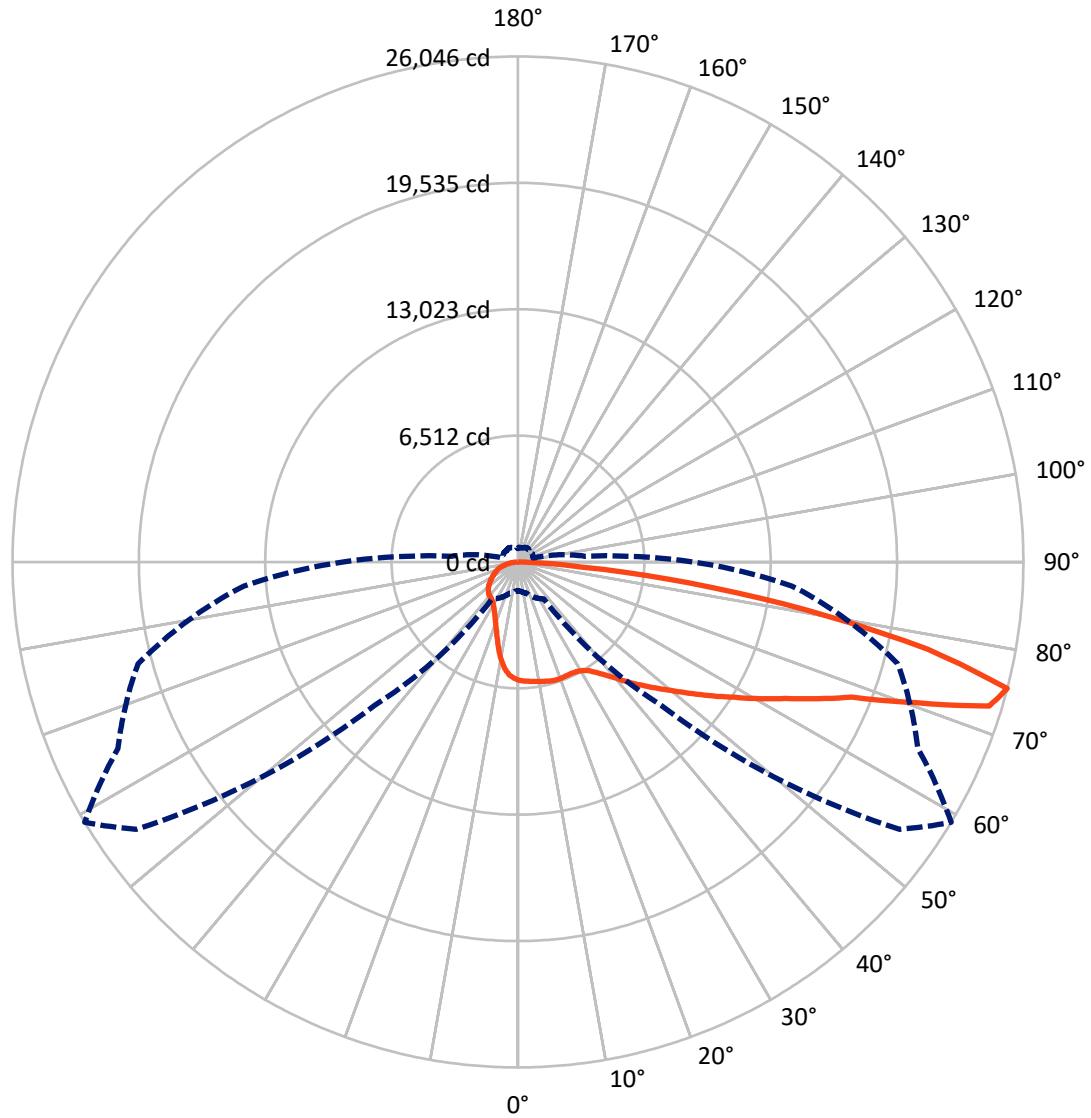
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	6231.0	0.0	6231.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26991.0	0.0	26991.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	33222.0	0.0	33222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.8	1.6
10°-20°	1397.6	4.2
20°-30°	2122.8	6.4
30°-40°	3155.5	9.5
40°-50°	4692.8	14.1
50°-60°	6369.9	19.2
60°-70°	7776.6	23.4
70°-80°	6102.9	18.4
80°-90°	1057.2	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°	33222.0	100.0
0°-180°	33222.0	100.0



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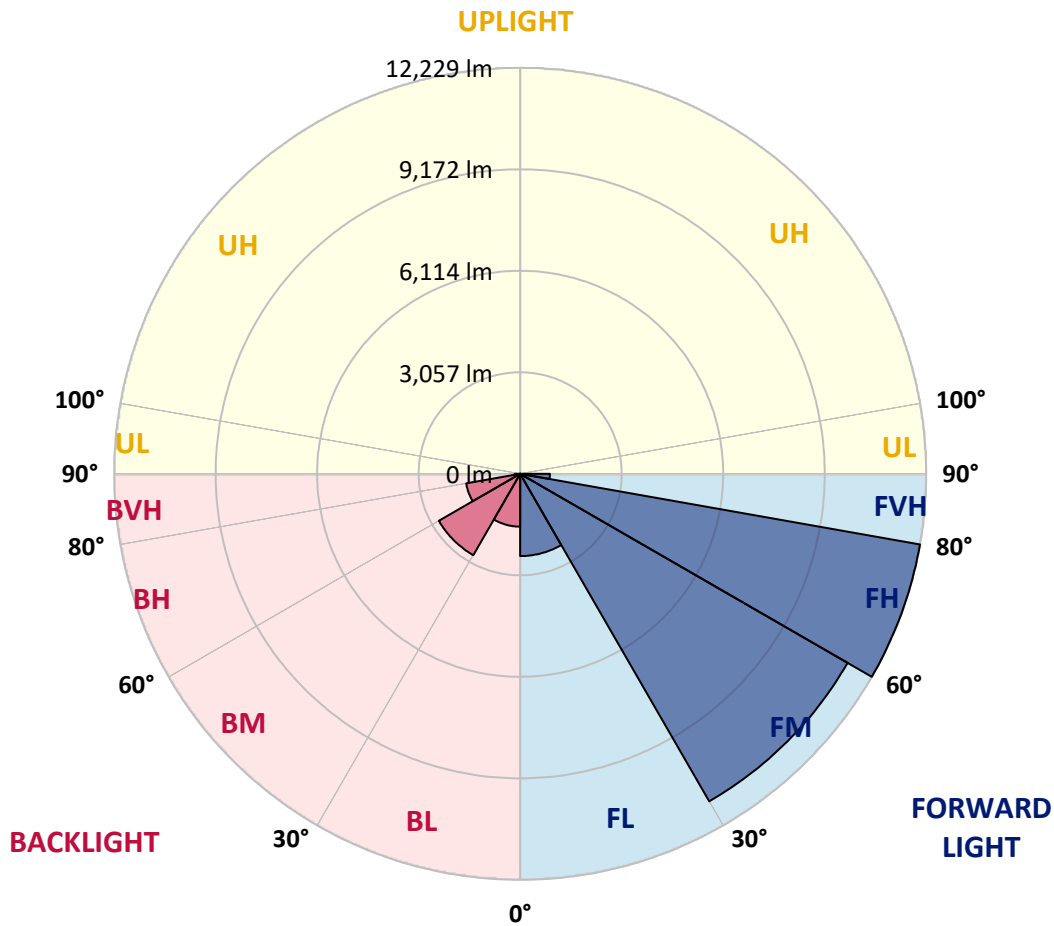
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.1	7.5			
FM (30°-60°)	11389.9	34.3			
FH (60°-80°)	12228.7	36.8			G5
FVH (80°-90°)	895.4	2.7			G5
BL (0°-30°)	1590.1	4.8	B3/2500		
BM (30°-60°)	2828.3	8.5	B3/5000		
BH (60°-80°)	1650.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	161.8	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°	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8
2.5°	6149.7	6128.2	6149.7	6140.7	6137.1	6130.0	6131.8	6144.3	6137.1	6146.1
5°	6108.5	6096.0	6117.5	6112.1	6135.4	6138.9	6162.2	6176.5	6185.4	6187.2
7.5°	6040.6	6028.1	6058.5	6083.5	6133.6	6147.9	6196.1	6219.4	6231.9	6253.3
10°	5792.2	5786.9	5861.9	5956.6	6074.6	6147.9	6221.1	6260.5	6280.1	6337.3
12.5°	5352.6	5359.7	5458.0	5640.3	5876.2	6112.1	6249.7	6306.9	6337.3	6408.8
15°	4932.6	4930.8	5038.0	5232.8	5563.5	5954.9	6264.0	6362.3	6414.2	6519.6
17.5°	4689.5	4682.4	4757.4	4905.8	5213.2	5713.6	6228.3	6392.7	6503.5	6635.8
20°	4644.9	4630.6	4669.9	4743.1	4961.2	5449.1	6135.4	6392.7	6575.0	6746.6
22.5°	4807.5	4784.3	4768.2	4759.2	4855.7	5231.0	6029.9	6371.3	6680.4	6905.6
25°	5134.5	5098.8	5016.6	4936.2	4907.6	5132.8	5937.0	6365.9	6837.7	7120.1
27.5°	5663.5	5618.9	5452.7	5259.6	5086.3	5182.8	5895.9	6398.1	7011.1	7347.1
30°	6319.4	6271.2	6062.1	5765.4	5454.4	5368.7	5947.7	6492.8	7232.7	7649.1
32.5°	6907.4	6853.8	6675.1	6373.0	5953.1	5690.3	6112.1	6673.3	7581.2	8069.1
35°	7429.3	7366.7	7205.9	6927.1	6564.3	6142.5	6408.8	6993.2	8076.2	8751.8
37.5°	7940.4	7867.1	7692.0	7397.1	7143.3	6744.8	6818.1	7404.2	8733.9	9581.0
40°	8512.3	8406.8	8194.2	7902.9	7656.2	7450.7	7356.0	7908.2	9402.3	10506.8
42.5°	9066.3	8966.2	8712.5	8464.0	8154.9	8095.9	7979.7	8498.0	10133.3	11523.7
45°	9663.2	9543.5	9236.1	8921.6	8726.8	8524.8	8583.8	9087.8	10849.9	12560.2
47.5°	10222.6	10088.6	9725.8	9375.5	9268.3	8885.8	9137.8	9736.5	11595.2	13611.1
50°	10524.6	10392.4	10090.4	9774.0	9690.0	9330.8	9738.3	10449.6	12376.2	14658.4
52.5°	10776.6	10633.7	10238.7	10063.6	10038.5	9815.1	10478.2	11264.5	13157.1	15584.1
55°	11044.7	10885.7	10381.7	10224.4	10338.8	10358.4	11355.7	12188.5	13982.8	16486.6
57.5°	11353.9	11151.9	10519.3	10360.2	10631.9	10994.7	12363.6	13146.4	14794.2	17323.0
60°	11645.2	11441.5	10783.8	10576.5	10948.2	11732.8	13519.9	14306.3	15712.8	18068.3
62.5°	11702.4	11534.4	10994.7	10992.9	11377.1	12594.2	14888.9	15476.9	16515.2	18804.6
65°	10712.3	10606.9	10287.0	10976.8	11991.9	13834.5	16413.4	16974.5	17535.7	19448.0
67.5°	8153.1	8167.4	8144.1	9475.6	11495.1	15616.3	18620.5	18577.6	18795.7	20170.0
70°	3728.0	3812.0	4358.9	6541.0	9209.3	15821.8	22269.9	21714.1	20377.3	21104.7
72.5°	2014.1	2078.5	2301.9	3168.7	5536.7	14066.8	24997.1	25392.1	22480.8	21733.8
75°	1478.0	1513.7	1669.2	2014.1	2325.1	10454.9	24019.6	26046.2	22743.5	20266.5
77.5°	1106.3	1122.3	1249.2	1595.9	1190.3	5511.6	19192.4	21571.1	19469.4	16651.1
80°	802.4	820.3	915.0	1197.4	834.6	2015.9	13178.6	15140.9	13334.1	10614.0
82.5°	554.0	561.2	602.3	814.9	582.6	782.8	7477.5	8878.7	7443.6	3724.5
85°	334.2	343.1	361.0	475.4	330.6	371.7	3227.6	3338.4	2225.0	890.0
87.5°	137.6	146.5	160.8	200.2	130.5	103.7	532.6	668.4	416.4	260.9
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°
6097.8	0°	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8	6097.8
6115.7	2.5°	6106.8	6094.2	6060.3	6013.8	5970.9	5917.3	5894.1	5874.4	5856.6	5822.6
6163.9	5°	6144.3	6110.3	6019.2	5901.2	5767.2	5620.6	5477.7	5379.4	5295.4	5232.8
6219.4	7.5°	6201.5	6137.1	5970.9	5729.7	5422.3	5107.7	4823.6	4621.6	4469.7	4414.3
6298.0	10°	6260.5	6183.6	5894.1	5468.7	4938.0	4453.6	4076.5	3869.2	3747.7	3708.4
6390.9	12.5°	6330.2	6217.6	5774.3	5105.9	4396.4	3865.6	3536.8	3415.3	3352.7	3331.3
6505.3	15°	6432.0	6246.2	5593.8	4652.0	3879.9	3436.7	3224.1	3140.1	3107.9	3106.1
6623.3	17.5°	6508.9	6251.5	5313.3	4165.9	3483.2	3177.6	3002.4	2970.3	2991.7	3023.9
6739.4	20°	6594.7	6203.3	4945.1	3722.7	3204.4	2950.6	2877.3	2898.8	2950.6	2997.1
6893.1	22.5°	6655.4	6115.7	4500.1	3377.8	2963.1	2820.2	2816.6	2861.3	2889.9	2913.1
7073.6	25°	6709.0	5967.4	4028.3	3088.2	2764.8	2741.5	2780.8	2766.5	2746.9	2766.5
7254.1	27.5°	6748.4	5733.2	3606.5	2834.5	2625.4	2687.9	2664.7	2632.5	2630.7	2641.4
7466.8	30°	6735.8	5420.5	3259.8	2593.2	2527.1	2587.8	2532.4	2527.1	2521.7	2527.1
7786.7	32.5°	6735.8	5064.8	2993.5	2427.0	2464.5	2441.3	2435.9	2423.4	2402.0	2400.2
8221.0	35°	6773.4	4709.2	2764.8	2337.6	2412.7	2357.3	2360.9	2330.5	2285.8	2264.3
8796.5	37.5°	6850.2	4423.2	2537.8	2294.7	2321.5	2319.7	2305.4	2253.6	2175.0	2107.1
9514.9	40°	7036.1	4339.2	2382.3	2275.1	2278.6	2300.1	2262.6	2162.5	1983.8	1873.0
10244.1	42.5°	7327.4	4480.4	2348.3	2226.8	2250.0	2271.5	2198.2	1965.9	1839.0	1772.9
11009.0	45°	7697.3	4727.1	2421.6	2157.1	2182.1	2219.7	2001.6	1890.8	1833.6	1835.4
11766.7	47.5°	8165.6	4986.2	2557.4	2096.4	2083.8	2105.3	1871.2	1803.3	1724.6	1744.3
12494.1	50°	8707.1	5248.9	2686.1	2014.1	1974.8	1905.1	1787.2	1722.8	1622.8	1576.3
13196.5	52.5°	9293.3	5502.7	2737.9	1914.1	1856.9	1776.4	1730.0	1651.3	1529.8	1453.0
13859.5	55°	9849.1	5733.2	2680.8	1794.3	1738.9	1676.4	1669.2	1621.0	1490.5	1383.3
14449.3	57.5°	10374.5	5926.3	2537.8	1672.8	1619.2	1581.6	1629.9	1606.7	1442.2	1304.6
15006.9	60°	10819.5	6058.5	2330.5	1549.5	1511.9	1492.3	1565.6	1558.4	1374.3	1220.6
15507.3	62.5°	11173.4	6110.3	2101.7	1431.5	1422.6	1386.8	1476.2	1476.2	1288.5	1138.4
15946.9	65°	11450.4	6060.3	1869.4	1315.4	1333.2	1279.6	1367.2	1356.5	1197.4	1065.2
16452.7	67.5°	11695.2	5895.9	1612.0	1201.0	1242.1	1174.2	1252.8	1227.8	1097.3	991.9
16890.5	70°	11804.3	5513.4	1318.9	1086.6	1136.6	1070.5	1138.4	1092.0	984.7	913.2
16409.8	72.5°	10928.5	4582.3	1038.3	966.9	1009.8	956.1	1015.1	961.5	863.2	831.0
14170.5	75°	9041.3	3438.5	798.9	836.4	868.6	827.5	866.8	827.5	738.1	761.3
10467.5	77.5°	6566.1	2321.5	611.2	698.8	713.1	691.6	725.6	680.9	600.5	595.1
5216.7	80°	3265.2	1360.0	479.0	552.2	546.9	532.6	571.9	550.4	482.5	511.1
1408.3	82.5°	945.4	582.6	348.5	387.8	377.1	380.7	409.3	420.0	629.1	623.7
437.9	85°	296.7	228.8	209.1	216.2	205.5	210.9	241.3	479.0	443.2	259.1
135.8	87.5°	76.8	78.6	51.8	55.4	57.2	67.9	76.8	291.3	139.4	91.1
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>
6097.8
5806.5
5181.0
4317.8
3647.6
3336.6
3113.3
3036.4
3013.2
2925.6
2779.0
2659.3
2546.7
2423.4
2285.8
2130.3
1887.3
1772.9
1844.4
1794.3
1588.8
1451.2
1383.3
1297.5
1215.3
1133.1
1058.0
984.7
898.9
804.2
695.2
568.3
505.8
638.0
280.6
96.5
0.0

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