

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: P951411

Luminaire Tested: **GALN-SB5C-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951411  
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-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

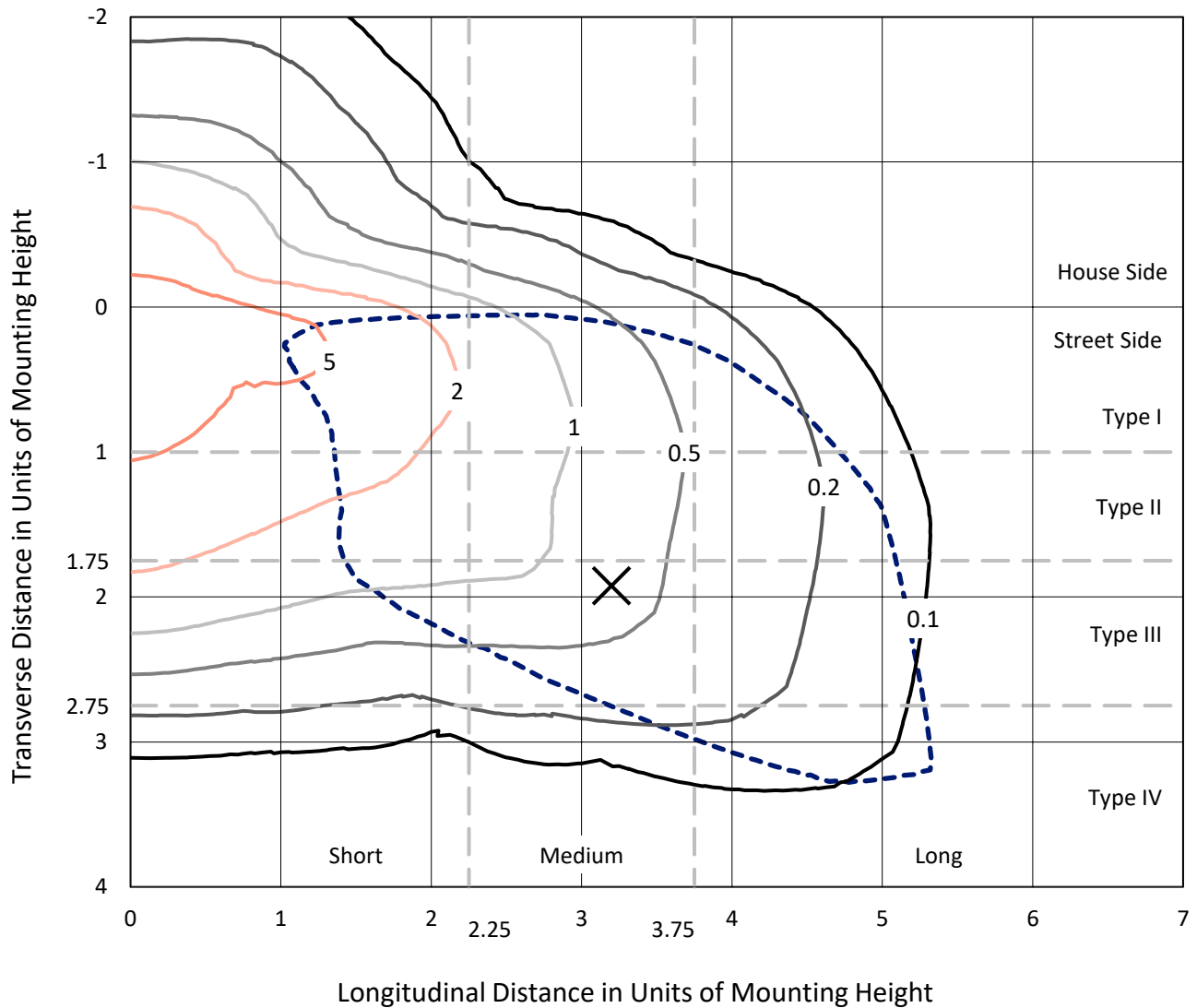
Lumens per Lamp: N/A  
Luminaire Lumens: 32151 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

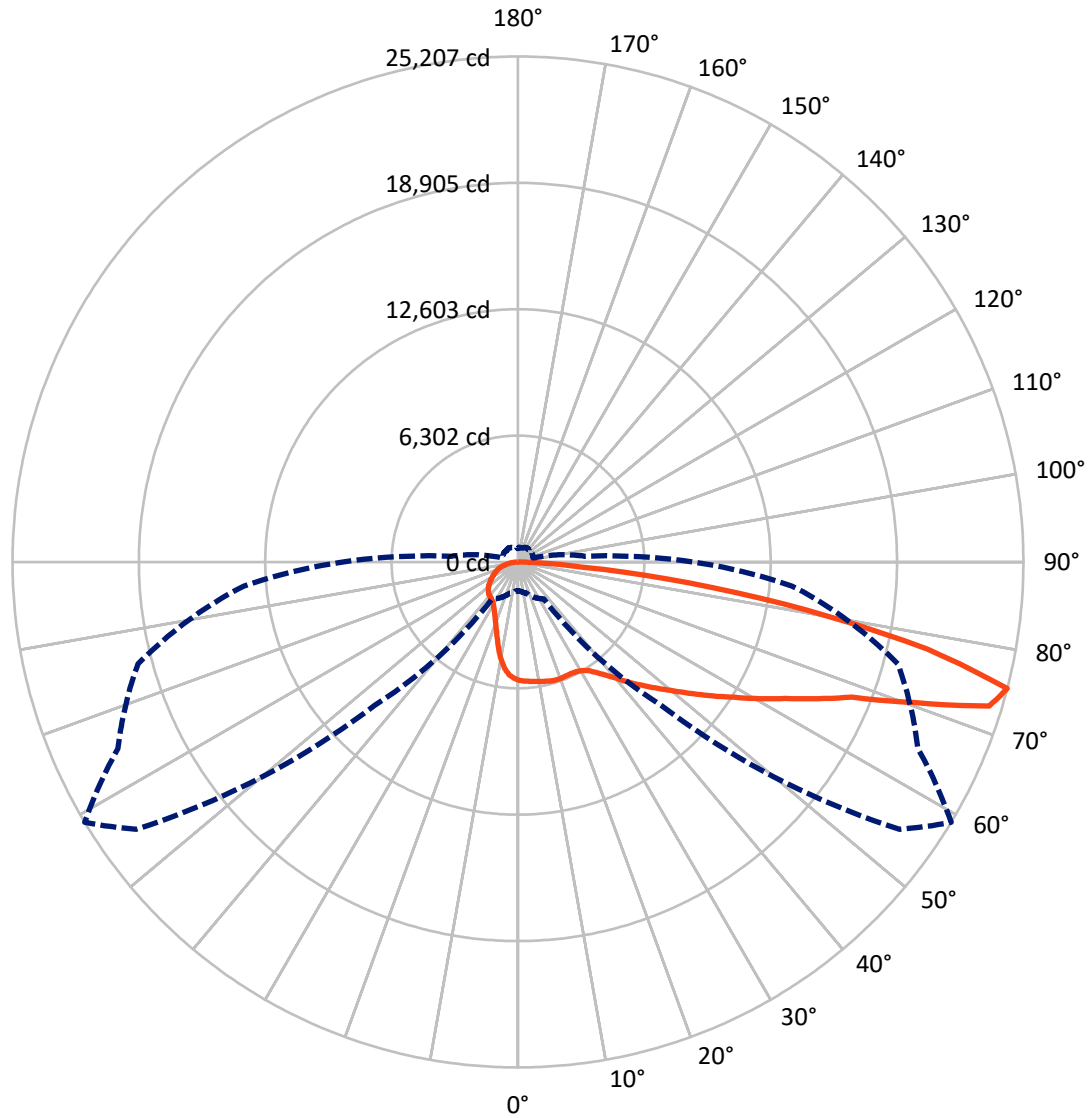
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	6030.1	0.0	6030.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26120.9	0.0	26120.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32151.0	0.0	32151.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.1	1.6
10°-20°	1352.5	4.2
20°-30°	2054.4	6.4
30°-40°	3053.8	9.5
40°-50°	4541.5	14.1
50°-60°	6164.5	19.2
60°-70°	7525.9	23.4
70°-80°	5906.2	18.4
80°-90°	1023.1	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°	32151.0	100.0
0°-180°	32151.0	100.0

**Coefficient of Utilization**



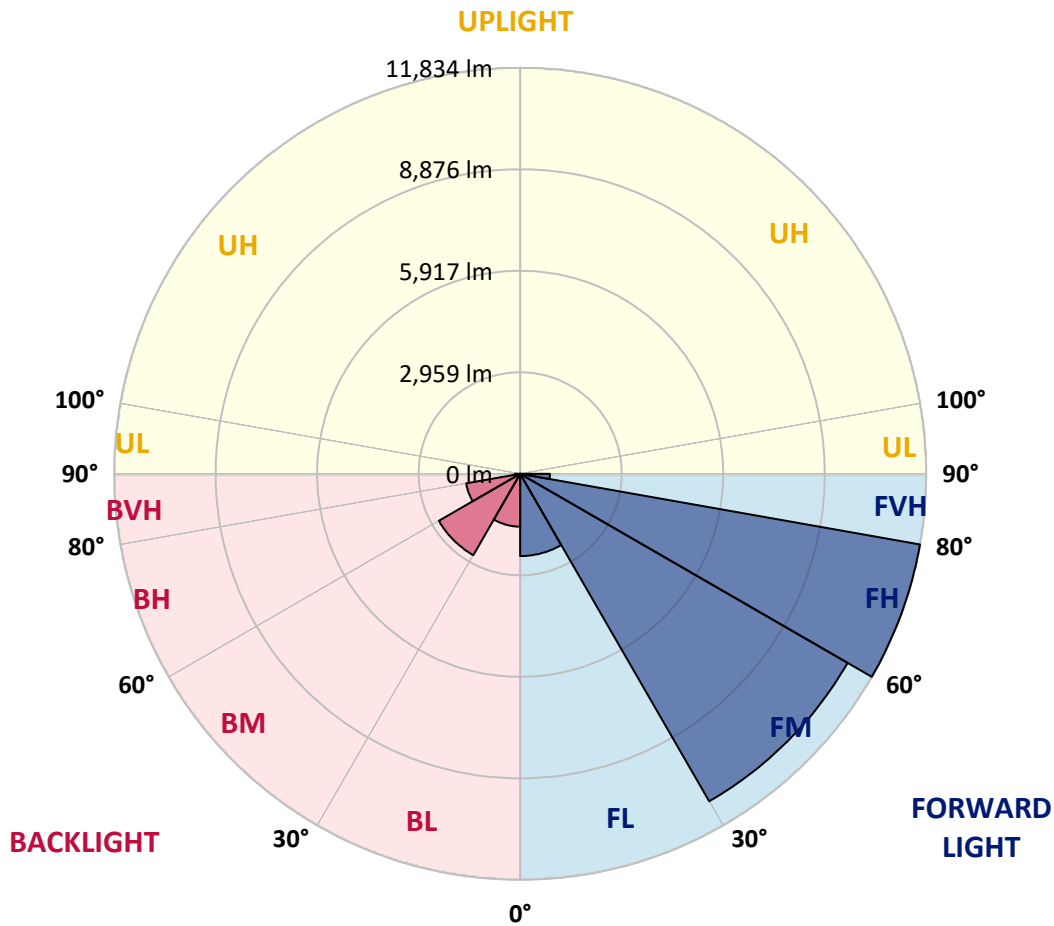
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.2	7.5			
FM (30°-60°)	11022.7	34.3			
FH (60°-80°)	11834.5	36.8			G4/12000
FVH (80°-90°)	866.5	2.7			G5
BL (0°-30°)	1538.8	4.8	B3/2500		
BM (30°-60°)	2737.1	8.5	B3/5000		
BH (60°-80°)	1597.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	156.6	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°	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2
2.5°	5951.4	5930.6	5951.4	5942.8	5939.3	5932.4	5934.1	5946.2	5939.3	5947.9
5°	5911.6	5899.5	5920.3	5915.1	5937.6	5941.0	5963.5	5977.3	5986.0	5987.7
7.5°	5845.9	5833.8	5863.2	5887.4	5935.8	5949.7	5996.4	6018.9	6031.0	6051.7
10°	5605.5	5600.3	5672.9	5764.6	5878.8	5949.7	6020.6	6058.6	6077.7	6133.0
12.5°	5180.0	5186.9	5282.1	5458.5	5686.8	5915.1	6048.3	6103.6	6133.0	6202.2
15°	4773.6	4771.8	4875.6	5064.1	5384.1	5762.9	6062.1	6157.2	6207.4	6309.4
17.5°	4538.4	4531.4	4604.1	4747.6	5045.1	5529.4	6027.5	6186.6	6293.9	6421.8
20°	4495.1	4481.3	4519.3	4590.2	4801.2	5273.4	5937.6	6186.6	6363.0	6529.1
22.5°	4652.5	4630.0	4614.5	4605.8	4699.2	5062.4	5835.5	6165.9	6465.1	6683.0
25°	4969.0	4934.4	4854.9	4777.0	4749.4	4967.3	5745.6	6160.7	6617.3	6890.6
27.5°	5481.0	5437.7	5276.9	5090.1	4922.3	5015.7	5705.8	6191.8	6785.0	7110.2
30°	6115.7	6069.0	5866.7	5579.5	5278.6	5195.6	5756.0	6283.5	6999.5	7402.5
32.5°	6684.7	6632.8	6459.9	6167.6	5761.2	5506.9	5915.1	6458.2	7336.8	7808.9
35°	7189.8	7129.2	6973.6	6703.8	6352.7	5944.5	6202.2	6767.8	7815.9	8469.6
37.5°	7684.4	7613.5	7444.0	7158.6	6913.0	6527.3	6598.3	7165.5	8452.3	9272.1
40°	8237.9	8135.8	7930.0	7648.1	7409.4	7210.5	7118.9	7653.3	9099.2	10168.1
42.5°	8774.0	8677.2	8431.6	8191.2	7892.0	7834.9	7722.5	8224.0	9806.6	11152.2
45°	9351.7	9235.8	8938.3	8633.9	8445.4	8250.0	8307.1	8794.8	10500.1	12155.3
47.5°	9893.1	9763.3	9412.2	9073.2	8969.5	8599.4	8843.2	9422.6	11221.4	13172.3
50°	10185.4	10057.4	9765.1	9458.9	9377.7	9030.0	9424.3	10112.7	11977.2	14185.8
52.5°	10429.2	10290.9	9908.6	9739.1	9714.9	9498.7	10140.4	10901.4	12733.0	15081.7
55°	10688.7	10534.7	10047.0	9894.8	10005.5	10024.5	10989.6	11795.6	13532.0	15955.2
57.5°	10987.9	10792.4	10180.2	10026.2	10289.1	10640.2	11965.1	12722.6	14317.3	16764.6
60°	11269.8	11072.6	10436.1	10235.5	10595.3	11354.5	13084.1	13845.1	15206.3	17485.8
62.5°	11325.1	11162.6	10640.2	10638.5	11010.4	12188.2	14408.9	14978.0	15982.8	18198.4
65°	10367.0	10264.9	9955.3	10622.9	11605.3	13388.5	15884.2	16427.3	16970.4	18821.0
67.5°	7890.2	7904.1	7881.6	9170.1	11124.5	15112.9	18020.2	17978.7	18189.7	19519.8
70°	3607.9	3689.1	4218.4	6330.2	8912.4	15311.8	21552.0	21014.1	19720.4	20424.3
72.5°	1949.2	2011.5	2227.7	3066.5	5358.2	13613.3	24191.3	24573.5	21756.1	21033.1
75°	1430.3	1464.9	1615.4	1949.2	2250.2	10117.9	23245.2	25206.5	22010.3	19613.2
77.5°	1070.6	1086.2	1209.0	1544.5	1151.9	5334.0	18573.7	20875.7	18841.8	16114.3
80°	776.6	793.9	885.5	1158.8	807.7	1950.9	12753.7	14652.8	12904.2	10271.8
82.5°	536.2	543.1	582.9	788.7	563.8	757.5	7236.5	8592.4	7203.6	3604.4
85°	323.4	332.1	349.4	460.1	320.0	359.7	3123.6	3230.8	2153.3	861.3
87.5°	133.2	141.8	155.7	193.7	126.3	100.3	515.4	646.9	403.0	252.5
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°
5901.2	0°	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2
5918.5	2.5°	5909.9	5897.8	5864.9	5820.0	5778.4	5726.6	5704.1	5685.0	5667.8	5634.9
5965.2	5°	5946.2	5913.4	5825.1	5711.0	5581.3	5439.5	5301.1	5206.0	5124.7	5064.1
6018.9	7.5°	6001.6	5939.3	5778.4	5545.0	5247.5	4943.1	4668.1	4472.6	4325.6	4272.0
6095.0	10°	6058.6	5984.3	5704.1	5292.4	4778.8	4310.1	3945.1	3744.5	3626.9	3588.8
6184.9	12.5°	6126.1	6017.1	5588.2	4941.3	4254.7	3741.0	3422.8	3305.2	3244.6	3223.9
6295.6	15°	6224.7	6044.8	5413.5	4502.0	3754.9	3325.9	3120.1	3038.8	3007.7	3006.0
6409.7	17.5°	6299.0	6050.0	5142.0	4031.6	3370.9	3075.2	2905.7	2874.5	2895.3	2926.4
6522.2	20°	6382.1	6003.3	4785.7	3602.7	3101.1	2855.5	2784.6	2805.3	2855.5	2900.5
6670.9	22.5°	6440.9	5918.5	4355.0	3268.9	2867.6	2729.2	2725.8	2769.0	2796.7	2819.2
6845.6	25°	6492.8	5775.0	3898.4	2988.7	2675.6	2653.1	2691.2	2677.4	2658.3	2677.4
7020.3	27.5°	6530.8	5548.4	3490.2	2743.1	2540.7	2601.3	2578.8	2547.6	2545.9	2556.3
7226.1	30°	6518.7	5245.7	3154.7	2509.6	2445.6	2504.4	2450.8	2445.6	2440.4	2445.6
7535.7	32.5°	6518.7	4901.6	2897.0	2348.7	2385.1	2362.6	2357.4	2345.3	2324.5	2322.8
7956.0	35°	6555.0	4557.4	2675.6	2262.3	2334.9	2281.3	2284.7	2255.3	2212.1	2191.3
8512.9	37.5°	6629.4	4280.7	2456.0	2220.7	2246.7	2245.0	2231.1	2181.0	2104.9	2039.1
9208.2	40°	6809.3	4199.4	2305.5	2201.7	2205.2	2225.9	2189.6	2092.8	1919.8	1812.6
9913.8	42.5°	7091.2	4336.0	2272.6	2155.0	2177.5	2198.3	2127.4	1902.5	1779.7	1715.7
10654.1	45°	7449.2	4574.7	2343.5	2087.6	2111.8	2148.1	1937.1	1829.9	1774.5	1776.3
11387.4	47.5°	7902.3	4825.5	2475.0	2028.8	2016.7	2037.4	1810.8	1745.1	1669.0	1688.0
12091.3	50°	8426.4	5079.7	2599.5	1949.2	1911.2	1843.7	1729.6	1667.3	1570.4	1525.5
12771.0	52.5°	8993.7	5325.3	2649.7	1852.4	1797.0	1719.2	1674.2	1598.1	1480.5	1406.1
13412.7	55°	9531.6	5548.4	2594.3	1736.5	1682.9	1622.3	1615.4	1568.7	1442.4	1338.7
13983.5	57.5°	10040.1	5735.2	2456.0	1618.9	1567.0	1530.7	1577.4	1554.9	1395.8	1262.6
14523.1	60°	10470.7	5863.2	2255.3	1499.5	1463.2	1444.2	1515.1	1508.2	1330.0	1181.3
15007.4	62.5°	10813.2	5913.4	2034.0	1385.4	1376.7	1342.1	1428.6	1428.6	1247.0	1101.7
15432.8	65°	11081.3	5864.9	1809.1	1273.0	1290.2	1238.4	1323.1	1312.7	1158.8	1030.8
15922.3	67.5°	11318.2	5705.8	1560.1	1162.3	1202.0	1136.3	1212.4	1188.2	1061.9	959.9
16346.0	70°	11423.7	5335.7	1276.4	1051.6	1100.0	1036.0	1101.7	1056.8	953.0	883.8
15880.8	72.5°	10576.2	4434.6	1004.9	935.7	977.2	925.3	982.4	930.5	835.4	804.2
13713.6	75°	8749.8	3327.7	773.1	809.4	840.6	800.8	838.8	800.8	714.3	736.8
10130.0	77.5°	6354.4	2246.7	591.5	676.3	690.1	669.3	702.2	659.0	581.1	575.9
5048.6	80°	3159.9	1316.2	463.5	534.4	529.2	515.4	553.5	532.7	467.0	494.7
1362.9	82.5°	914.9	563.8	337.3	375.3	364.9	368.4	396.1	406.4	608.8	603.6
423.7	85°	287.1	221.4	202.4	209.3	198.9	204.1	233.5	463.5	428.9	250.8
131.4	87.5°	74.4	76.1	50.2	53.6	55.3	65.7	74.4	281.9	134.9	88.2
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>
5901.2
5619.3
5014.0
4178.6
3530.0
3229.1
3012.9
2938.5
2916.0
2831.3
2689.5
2573.6
2464.6
2345.3
2212.1
2061.6
1826.4
1715.7
1784.9
1736.5
1537.6
1404.4
1338.7
1255.7
1176.1
1096.5
1023.9
953.0
870.0
778.3
672.8
550.0
489.5
617.5
271.5
93.4
0.0

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