

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: P953208

Luminaire Tested: **GALN-SB6D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53554 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

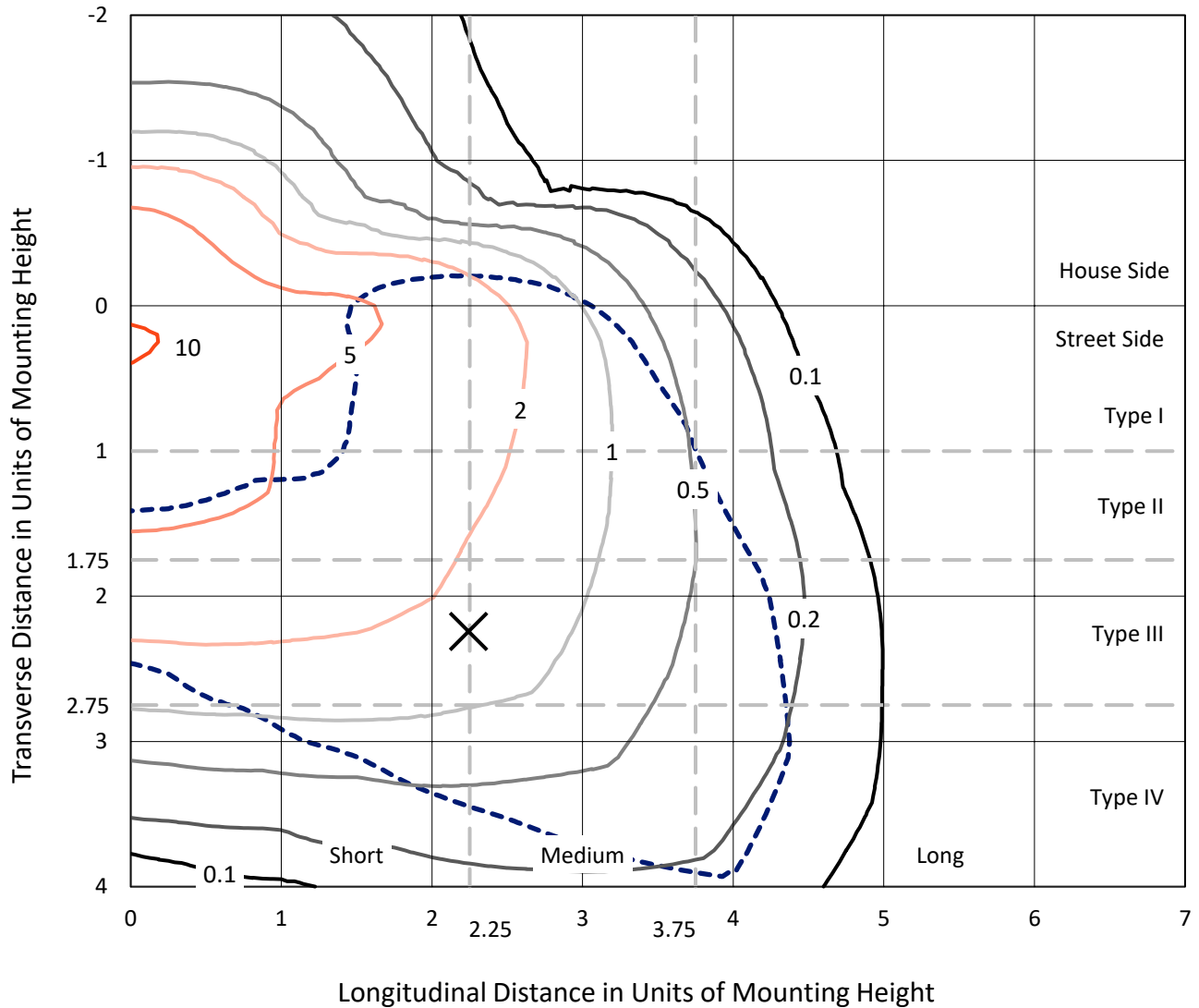
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

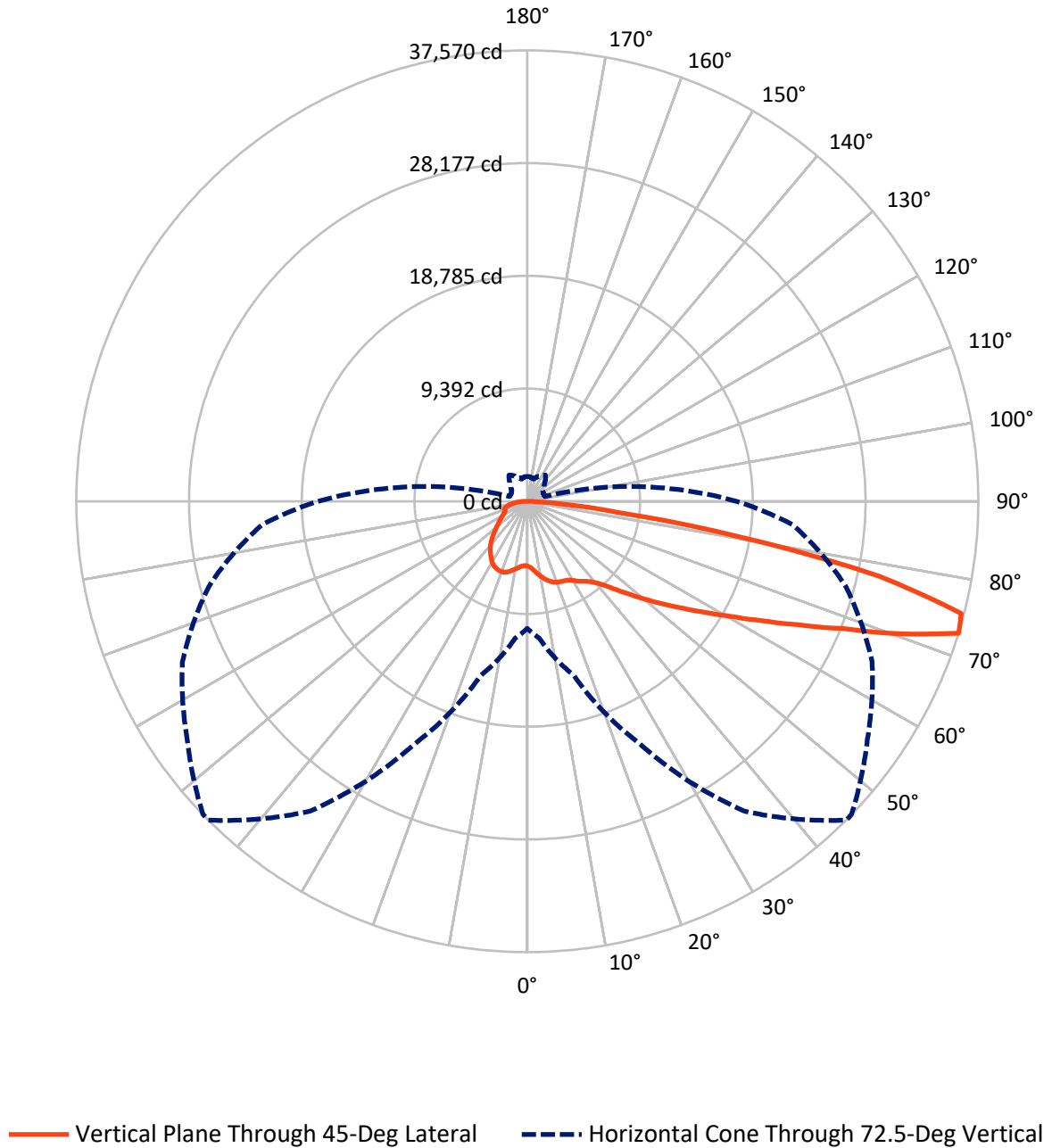
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12106.7	0.0	12106.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	41447.3	0.0	41447.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	53554.0	0.0	53554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.9	1.0
10°-20°	1833.3	3.4
20°-30°	3189.2	6.0
30°-40°	4571.9	8.5
40°-50°	6437.5	12.0
50°-60°	9860.4	18.4
60°-70°	14284.2	26.7
70°-80°	11406.8	21.3
80°-90°	1420.7	2.7
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°	53554.0	100.0
0°-180°	53554.0	100.0



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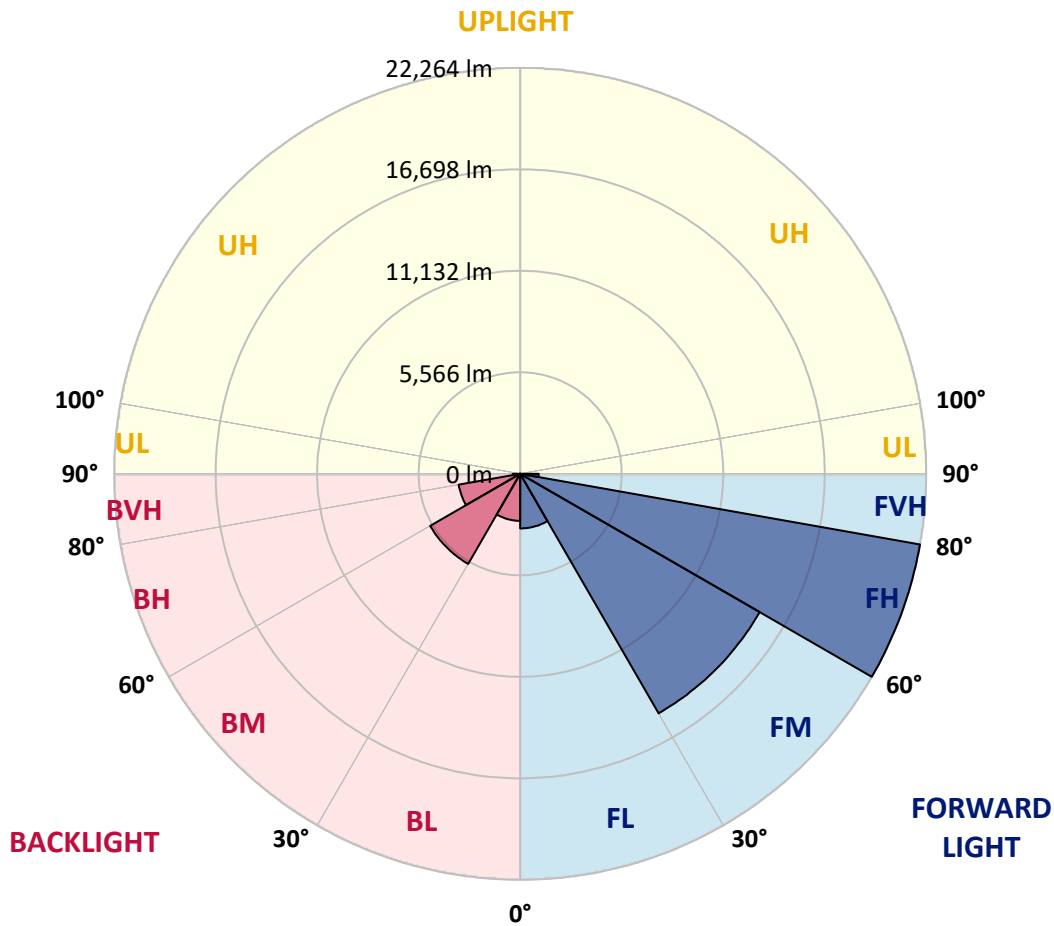
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2994.8	5.6			
FM (30°-60°)	15169.3	28.3			
FH (60°-80°)	22264.0	41.6			G5
FVH (80°-90°)	1019.2	1.9			G5
BL (0°-30°)	2577.6	4.8	B4/5000		
BM (30°-60°)	5700.5	10.6	B4/8500		
BH (60°-80°)	3427.1	6.4	B4/5000		G4/5000
BVH (80°-90°)	401.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6
2.5°	5614.1	5650.8	5617.0	5585.9	5571.8	5535.2	5532.3	5509.8	5495.7	5456.2
5°	6006.3	6054.2	5997.8	5935.8	5879.3	5789.1	5777.8	5712.9	5639.5	5554.9
7.5°	6449.2	6491.5	6426.6	6333.5	6234.8	6085.3	6082.5	5964.0	5848.3	5704.4
10°	6835.7	6892.1	6804.7	6677.7	6553.6	6384.3	6364.6	6229.2	6082.5	5896.3
12.5°	7177.1	7216.6	7131.9	6976.8	6832.9	6663.6	6638.2	6488.7	6325.1	6113.5
15°	7447.9	7498.7	7385.8	7219.4	7067.1	6900.6	6878.0	6742.6	6579.0	6356.1
17.5°	7625.6	7668.0	7552.3	7366.1	7219.4	7081.2	7064.2	6951.4	6807.5	6581.8
20°	7693.4	7738.5	7617.2	7428.2	7292.7	7185.5	7177.1	7095.3	6996.5	6790.6
22.5°	7761.1	7803.4	7645.4	7447.9	7329.4	7261.7	7258.9	7205.3	7165.8	6996.5
25°	8034.7	8046.0	7834.4	7549.5	7380.2	7321.0	7318.1	7315.3	7332.2	7199.6
27.5°	8271.7	8268.9	8088.3	7820.3	7557.9	7433.8	7431.0	7459.2	7512.8	7402.8
30°	8618.7	8587.7	8373.3	8094.0	7854.2	7662.3	7645.4	7620.0	7662.3	7574.9
32.5°	9355.0	9256.3	8909.3	8412.8	8099.6	7952.9	7930.3	7772.3	7789.3	7735.7
35°	10410.1	10280.4	9817.7	9016.5	8404.3	8195.5	8184.2	7983.9	7950.1	7902.1
37.5°	11665.6	11504.8	10965.9	9891.1	8929.0	8477.6	8460.7	8280.2	8141.9	8091.1
40°	12926.6	12723.5	12277.8	10957.5	9702.0	8948.8	8895.2	8621.5	8463.5	8378.9
42.5°	14151.0	13981.8	13600.9	12153.6	10655.6	9637.1	9518.7	9050.3	8931.9	8852.9
45°	15234.4	15082.0	14802.7	13431.6	11772.8	10573.8	10458.1	9693.6	9656.9	9656.9
47.5°	16114.6	16080.7	15784.5	14735.0	13090.3	11640.2	11439.9	10587.9	10686.6	10839.0
50°	17090.7	16997.6	16681.6	16018.6	14639.1	12861.8	12698.1	11685.3	12054.9	12472.4
52.5°	17987.8	18038.6	17686.0	17355.9	16388.2	14224.4	13936.6	12980.2	13778.6	14469.8
55°	18910.4	18913.2	18814.4	18769.3	18222.0	15730.9	15414.9	14537.5	15807.1	16664.7
57.5°	19776.5	19782.1	19928.8	20326.6	20349.2	17468.7	17110.4	16450.3	18061.2	18935.7
60°	20549.5	20589.0	20989.6	21920.6	22219.6	19460.5	19121.9	18710.1	20391.5	21271.7
62.5°	20809.0	20952.9	21844.4	23167.5	24067.5	21903.6	21570.7	21325.3	22840.3	23658.4
65°	20368.9	20699.0	22422.7	24197.2	25968.9	24806.6	24476.5	24208.5	25385.0	26155.1
67.5°	19288.4	19714.4	22388.9	25277.8	28276.7	28299.2	27991.7	27362.6	28113.0	28409.3
70°	16441.8	17079.4	20416.9	25681.2	30925.8	33075.5	32779.3	31159.9	30835.5	29402.3
72.5°	10593.5	11451.2	15034.1	22360.7	31515.4	37569.6	37552.7	34587.6	31695.9	27472.6
75°	3865.0	4389.8	6985.2	14035.4	26454.2	37341.1	37451.1	34000.8	28934.0	21220.9
77.5°	1407.8	1540.4	2279.5	5394.1	16269.7	29960.9	30189.4	27182.1	20594.6	10649.9
80°	739.1	812.5	1168.0	2093.3	6971.1	17793.2	18151.5	16154.1	9679.5	3207.7
82.5°	409.1	442.9	654.5	1136.9	3140.0	7608.7	7823.1	6381.5	3405.2	1359.8
85°	220.1	234.2	307.5	620.7	1534.7	2637.8	2697.0	1907.1	1357.0	798.4
87.5°	64.9	79.0	101.6	197.5	600.9	592.4	606.6	378.0	536.0	403.4
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°
5402.6	0°	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6	5402.6
5444.9	2.5°	5427.9	5419.5	5388.5	5374.3	5357.4	5354.6	5368.7	5371.5	5374.3	5377.2
5506.9	5°	5478.7	5450.5	5422.3	5405.4	5411.0	5413.8	5442.1	5461.8	5475.9	5487.2
5622.6	7.5°	5577.5	5554.9	5506.9	5504.1	5512.6	5538.0	5574.6	5619.8	5645.2	5664.9
5772.1	10°	5724.2	5681.9	5625.4	5633.9	5650.8	5687.5	5763.7	5800.3	5842.7	5879.3
5955.5	12.5°	5873.7	5837.0	5772.1	5777.8	5806.0	5870.9	5944.2	5989.4	6017.6	6045.8
6153.0	15°	6068.4	6003.5	5932.9	5932.9	5983.7	6054.2	6088.1	6124.8	6141.7	6172.7
6364.6	17.5°	6268.7	6184.0	6090.9	6085.3	6147.3	6181.2	6200.9	6206.6	6212.2	6246.1
6570.5	20°	6469.0	6375.9	6243.3	6232.0	6246.1	6240.4	6237.6	6232.0	6240.4	6282.8
6782.1	22.5°	6666.4	6559.2	6375.9	6325.1	6285.6	6232.0	6229.2	6226.3	6232.0	6274.3
7010.6	25°	6897.8	6768.0	6522.6	6370.2	6237.6	6164.3	6172.7	6175.6	6181.2	6215.1
7247.6	27.5°	7148.9	7005.0	6658.0	6356.1	6116.3	6065.5	6051.4	6059.9	6079.6	6133.2
7484.6	30°	7400.0	7230.7	6782.1	6299.7	5964.0	5893.4	5848.3	5868.1	5930.1	5983.7
7690.5	32.5°	7628.5	7459.2	6880.9	6175.6	5769.3	5659.3	5600.0	5625.4	5687.5	5707.2
7919.0	35°	7896.5	7704.6	6923.2	5978.1	5557.7	5388.5	5309.5	5272.8	5303.8	5284.1
8187.1	37.5°	8195.5	7995.2	6917.5	5718.5	5309.5	5114.8	5004.8	4866.5	4801.6	4733.9
8582.0	40°	8638.4	8350.7	6849.8	5405.4	5001.9	4824.2	4626.7	4392.6	4245.9	4113.3
9219.6	42.5°	9242.2	8844.4	6725.7	5061.2	4654.9	4488.5	4220.5	3946.8	3715.5	3495.4
10187.3	45°	10142.1	9490.4	6570.5	4694.4	4279.7	4116.1	3825.5	3518.0	3255.6	2973.5
11561.2	47.5°	11439.9	10359.4	6423.8	4276.9	3884.8	3735.2	3472.9	3187.9	2877.6	2603.9
13547.3	50°	13222.9	11606.3	6288.4	3870.7	3495.4	3382.6	3173.8	2883.2	2570.1	2350.0
15874.8	52.5°	15491.1	13301.9	6232.0	3478.5	3131.5	3089.2	2922.7	2651.9	2355.7	2169.5
18588.7	55°	18095.0	15330.3	6232.0	3103.3	2812.7	2826.8	2711.2	2460.1	2203.3	2036.9
21387.4	57.5°	20752.6	17384.1	6119.1	2756.3	2541.9	2601.1	2527.8	2307.7	2076.4	1904.3
24329.8	60°	23201.4	19105.0	5662.1	2440.3	2302.1	2395.2	2347.2	2158.2	1876.1	1732.2
26789.9	62.5°	25083.1	20075.5	4781.9	2189.2	2104.6	2211.8	2186.4	1960.7	1839.4	1780.2
28809.9	65°	26025.4	19917.5	3656.2	1966.4	1938.1	2104.6	2051.0	2042.5	1946.6	1878.9
29467.2	67.5°	25447.0	18557.7	2651.9	1802.7	1842.2	2005.9	2211.8	2245.7	2067.9	1935.3
27616.5	70°	22910.8	16097.6	1974.8	1647.6	1720.9	2008.7	2522.1	2350.0	2028.4	1873.3
22149.1	72.5°	17429.2	12004.1	1531.9	1483.9	1562.9	2022.8	2660.4	2302.1	1915.6	2070.7
13798.4	75°	9967.2	6590.3	1230.0	1283.6	1365.5	1890.2	2589.8	2177.9	1828.1	1901.5
5467.4	77.5°	3800.1	2533.4	1015.6	1086.2	1097.4	1650.4	2477.0	2169.5	1740.7	1698.3
1639.1	80°	1317.5	990.2	840.7	863.3	849.2	1467.0	2375.4	1887.4	1424.7	1275.2
677.1	82.5°	538.8	493.7	665.8	637.6	603.7	1139.8	1918.4	1543.2	1165.1	1029.7
327.3	85°	234.2	313.2	440.1	386.5	349.8	789.9	1537.5	1306.2	984.6	849.2
107.2	87.5°	48.0	118.5	186.2	174.9	180.6	527.6	1091.8	928.2	696.8	521.9
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>
5402.6
5388.5
5492.8
5670.6
5870.9
6057.1
6184.0
6257.4
6299.7
6302.5
6260.2
6186.8
6043.0
5777.8
5346.1
4776.3
4121.7
3475.7
2939.7
2572.9
2335.9
2155.4
2020.0
1876.1
1709.6
1760.4
1856.3
1912.8
1847.9
2053.8
1901.5
1548.8
1232.9
1018.4
846.4
409.1
0.0

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