

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: P942012

Luminaire Tested: **GALN-SB5D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44308 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

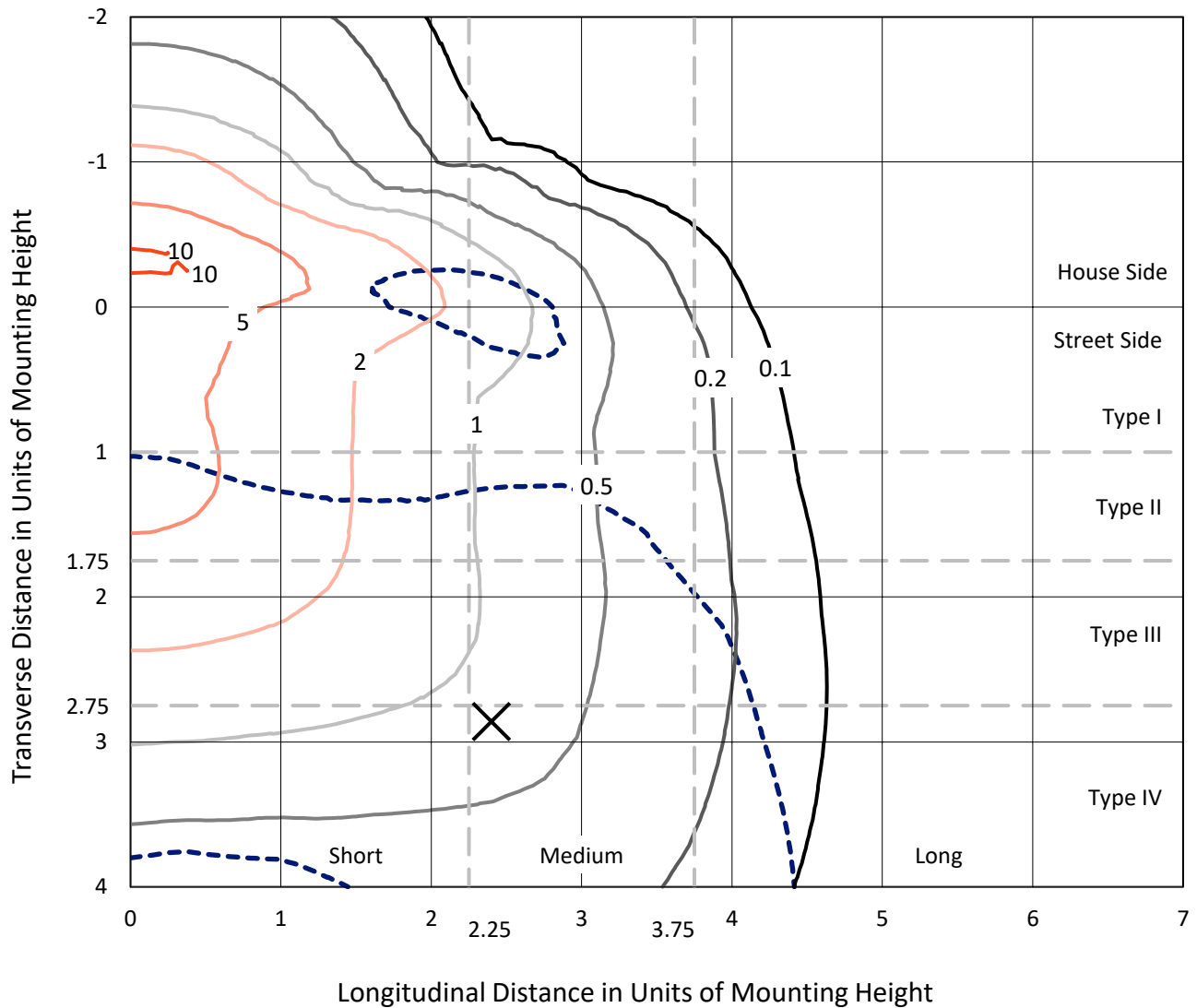
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

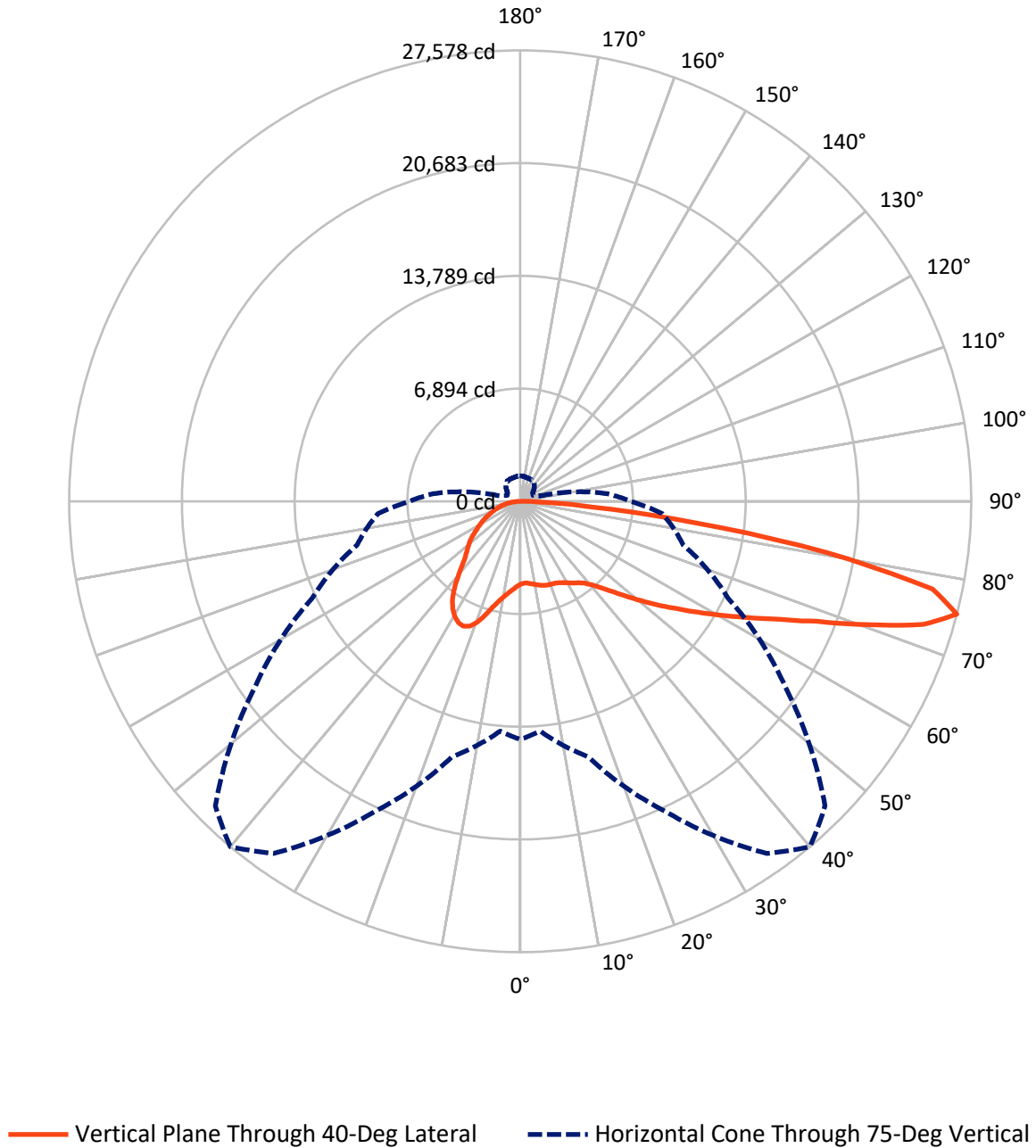
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13728.1	0.0	13728.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	30579.9	0.0	30579.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	44308.0	0.0	44308.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	1.1
10°-20°	1698.0	3.8
20°-30°	3100.5	7.0
30°-40°	4397.3	9.9
40°-50°	5937.7	13.4
50°-60°	7987.8	18.0
60°-70°	10138.4	22.9
70°-80°	9201.2	20.8
80°-90°	1341.3	3.0
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°	44308.0	100.0
0°-180°	44308.0	100.0



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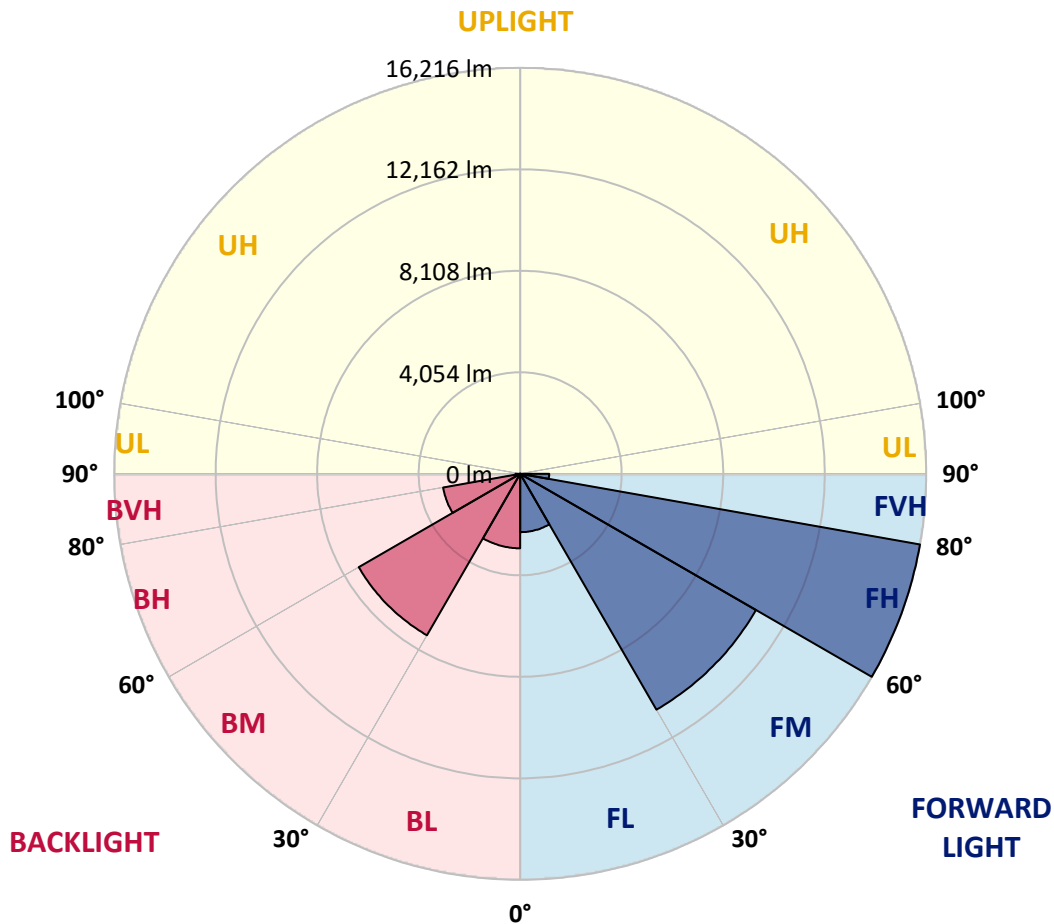
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.6	5.3			
FM (30°-60°)	10876.6	24.5			
FH (60°-80°)	16216.1	36.6			G5
FVH (80°-90°)	1156.6	2.6			G5
BL (0°-30°)	2973.6	6.7	B4/5000		
BM (30°-60°)	7446.3	16.8	B4/8500		
BH (60°-80°)	3123.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	184.7	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7
2.5°	4989.1	5017.3	5010.3	5000.9	5000.9	5003.2	5000.9	5017.3	5033.8	5050.2
5°	5040.8	5069.0	5054.9	5043.2	5033.8	5031.4	5024.4	5022.0	5031.4	5052.6
7.5°	5141.9	5170.1	5148.9	5127.8	5109.0	5099.6	5090.2	5076.1	5069.0	5080.8
10°	5254.7	5282.9	5257.0	5219.4	5188.9	5177.1	5167.7	5153.6	5144.2	5151.3
12.5°	5367.5	5395.7	5360.4	5308.7	5268.8	5261.7	5250.0	5245.3	5242.9	5240.6
15°	5473.2	5496.7	5452.1	5391.0	5348.7	5336.9	5325.2	5332.2	5344.0	5358.1
17.5°	5555.5	5579.0	5513.2	5433.3	5393.3	5388.6	5381.6	5405.1	5438.0	5473.2
20°	5630.7	5654.2	5569.6	5461.5	5414.5	5414.5	5416.8	5466.2	5513.2	5564.9
22.5°	5736.4	5755.2	5651.8	5503.8	5435.6	5440.3	5459.1	5508.5	5567.2	5637.7
25°	5893.9	5908.0	5781.1	5583.7	5506.1	5520.2	5536.7	5560.2	5616.6	5698.8
27.5°	6147.7	6159.4	5992.6	5724.7	5607.2	5630.7	5654.2	5637.7	5663.6	5734.1
30°	6504.9	6512.0	6300.4	5945.6	5778.7	5790.5	5795.2	5727.0	5677.7	5734.1
32.5°	6927.9	6925.6	6674.1	6213.5	5973.8	5962.0	5922.1	5788.1	5673.0	5722.3
35°	7583.6	7557.7	7233.4	6589.5	6194.7	6121.8	6027.8	5856.3	5696.5	5710.6
37.5°	8669.3	8589.4	8140.5	7205.2	6523.7	6338.0	6199.4	5966.7	5748.2	5705.9
40°	9893.7	9792.6	9299.1	8048.9	7017.2	6718.8	6495.5	6124.2	5832.8	5727.0
42.5°	11346.0	11202.6	10671.5	9042.9	7642.3	7209.9	6873.9	6323.9	5957.3	5795.2
45°	13129.7	12939.3	12187.3	10163.9	8429.6	7853.8	7405.0	6627.1	6147.7	5926.8
47.5°	14932.1	14979.1	13909.9	11447.0	9374.3	8648.1	8070.0	7083.0	6425.0	6138.3
50°	16847.4	16880.3	15623.0	12868.8	10445.9	9545.8	8817.3	7593.0	6810.4	6439.1
52.5°	18342.0	18346.7	17178.8	14356.4	11562.2	10532.9	9623.4	8175.8	7256.9	6838.6
55°	19277.3	19265.6	18269.2	15764.0	12845.3	11569.2	10516.4	8838.5	7802.1	7308.6
57.5°	19956.5	19921.3	19021.2	16974.3	14213.0	12793.6	11526.9	9590.5	8446.0	7867.9
60°	20215.0	20193.9	19531.2	18020.1	15651.2	14147.2	12692.5	10431.8	9176.9	8528.3
62.5°	20313.7	20353.7	20031.7	19032.9	17190.5	15646.5	13973.3	11437.6	9999.4	9275.6
65°	20661.5	20734.4	20668.6	20358.4	18929.5	17402.0	15672.4	12633.8	10897.1	10077.0
67.5°	21350.1	21422.9	21451.1	21944.6	21054.0	19589.9	17792.1	14123.7	11947.6	10908.9
70°	21333.6	21312.5	21810.7	23206.6	23714.2	22619.1	20649.8	15956.7	13200.2	11599.8
72.5°	19418.4	19249.1	20426.5	23192.5	25928.0	25782.3	24139.6	18320.9	14281.2	11684.4
75°	14567.9	14116.7	16196.5	20901.2	26296.9	27577.7	26358.0	19787.3	14025.0	10323.7
77.5°	6229.9	5776.4	8227.5	15472.6	23535.6	25779.9	24322.9	17263.4	11195.6	6826.9
80°	1630.9	1628.6	2486.3	7014.9	16006.1	19037.6	16701.7	11148.6	6396.8	2439.3
82.5°	674.5	658.0	914.2	2728.4	7820.9	10683.3	8718.6	4972.7	2310.1	660.4
85°	251.5	249.1	444.2	942.4	2758.9	4406.3	3189.0	1271.4	575.8	322.0
87.5°	70.5	68.2	96.4	326.7	672.1	1019.9	545.2	209.2	162.2	126.9
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°
5066.7	0°	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7	5066.7
5076.1	2.5°	5083.1	5094.9	5116.0	5132.5	5153.6	5177.1	5210.0	5231.2	5252.3	5266.4
5087.8	5°	5104.3	5130.1	5184.2	5238.2	5301.7	5360.4	5428.6	5477.9	5517.9	5529.6
5130.1	7.5°	5151.3	5193.6	5285.2	5376.9	5477.9	5574.3	5673.0	5757.6	5825.7	5851.6
5205.3	10°	5233.5	5289.9	5419.2	5548.4	5682.4	5830.4	5957.3	6079.5	6175.9	6215.8
5294.6	12.5°	5336.9	5407.4	5576.6	5755.2	5940.9	6145.3	6309.8	6460.3	6580.1	6634.2
5419.2	15°	5470.9	5562.5	5778.7	6018.4	6291.0	6575.4	6784.6	6951.4	7085.4	7151.2
5548.4	17.5°	5616.6	5738.8	6011.4	6373.3	6763.4	7137.1	7381.5	7503.7	7642.3	7705.8
5668.3	20°	5757.6	5908.0	6298.1	6824.5	7343.9	7741.0	7938.4	7971.3	7980.7	7987.8
5781.1	22.5°	5903.3	6105.4	6657.7	7393.2	7950.2	8225.1	8253.3	8112.3	7914.9	7823.3
5891.5	25°	6063.1	6331.0	7127.7	8020.7	8471.9	8504.8	8288.6	7945.5	7571.8	7400.3
5980.8	27.5°	6218.2	6591.9	7691.7	8619.9	8847.9	8558.8	8093.5	7607.1	7155.9	6974.9
6044.3	30°	6373.3	6890.3	8314.4	9144.0	9019.4	8424.9	7785.7	7242.8	6789.3	6598.9
6100.7	32.5°	6530.8	7238.1	9031.2	9522.3	8988.9	8140.5	7402.6	6833.9	6434.4	6234.6
6150.0	35°	6709.4	7665.8	9710.4	9729.2	8784.4	7722.2	6897.4	6345.1	5997.3	5837.5
6208.8	37.5°	6942.0	8208.7	10309.6	9780.9	8427.2	7108.9	6269.9	5767.0	5480.3	5407.4
6295.7	40°	7231.1	8862.0	10767.9	9698.6	7898.5	6363.9	5583.7	5181.8	5019.7	5036.1
6413.2	42.5°	7607.1	9592.8	11089.8	9487.1	7162.9	5595.4	4982.1	4803.5	4881.0	4946.8
6589.5	45°	8095.9	10351.9	11289.6	9127.5	6331.0	4944.5	4627.2	4669.5	4728.3	4735.3
6873.9	47.5°	8721.0	11120.4	11421.2	8584.7	5482.6	4486.2	4401.6	4411.0	4399.3	4349.9
7299.2	50°	9501.2	11867.7	11538.7	7865.6	4761.2	4199.5	4086.7	4053.8	3891.7	3731.9
7865.6	52.5°	10389.5	12553.9	11588.0	6972.6	4199.5	3959.8	3776.5	3569.7	3266.6	3217.2
8577.6	55°	11376.5	13188.4	11461.1	5875.1	3727.2	3652.0	3374.7	3125.5	3092.6	3050.3
9515.3	57.5°	12556.2	13872.3	11202.6	4650.7	3243.1	3292.4	3022.1	3050.3	2991.6	2925.8
10720.9	60°	13846.4	14579.6	10749.1	3534.5	2742.5	2843.5	2930.5	2928.1	2911.7	2857.6
11992.2	62.5°	15007.3	15044.9	9856.1	2707.2	2303.0	2495.7	2733.1	2730.7	2716.6	2686.1
13320.0	65°	15698.2	14974.4	8366.1	2131.5	1941.1	2209.0	2465.2	2484.0	2486.3	2484.0
14318.8	67.5°	15576.0	14149.6	6321.6	1696.7	1642.7	1917.6	2199.6	2225.5	2244.3	2249.0
14445.7	70°	14194.2	12337.7	4122.0	1353.6	1377.1	1661.5	1948.2	1974.0	1990.5	2009.3
12535.1	72.5°	11064.0	9071.1	2359.4	1095.1	1144.5	1440.6	1699.1	1729.6	1739.0	1774.3
8723.3	75°	6742.3	5334.6	1273.7	862.5	940.0	1231.4	1452.3	1487.6	1504.0	1546.3
4284.1	77.5°	3205.4	2310.1	726.2	672.1	756.7	1005.8	1226.7	1266.7	1222.0	1245.5
1182.1	80°	1083.4	857.8	458.3	512.3	578.1	784.9	982.3	1022.3	928.3	923.6
392.5	82.5°	378.4	347.8	291.4	340.8	373.7	561.7	742.6	794.3	690.9	688.6
176.3	85°	148.1	141.0	162.2	185.7	223.3	345.5	488.8	514.7	425.4	343.1
51.7	87.5°	30.6	32.9	40.0	42.3	68.2	119.9	176.3	216.2	171.6	145.7
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>
5066.7
5257.0
5534.3
5853.9
6218.2
6634.2
7146.5
7703.4
8006.6
7849.1
7426.1
6996.1
6620.1
6260.5
5872.7
5459.1
5092.5
5007.9
4782.3
4387.5
3753.0
3233.7
3057.4
2914.0
2838.8
2674.3
2484.0
2253.7
2018.7
1788.4
1551.0
1226.7
914.2
655.7
338.4
134.0
0.0

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