

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: P943372

Luminaire Tested: **GALN-SB7D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943372
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-SB7D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 62380 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

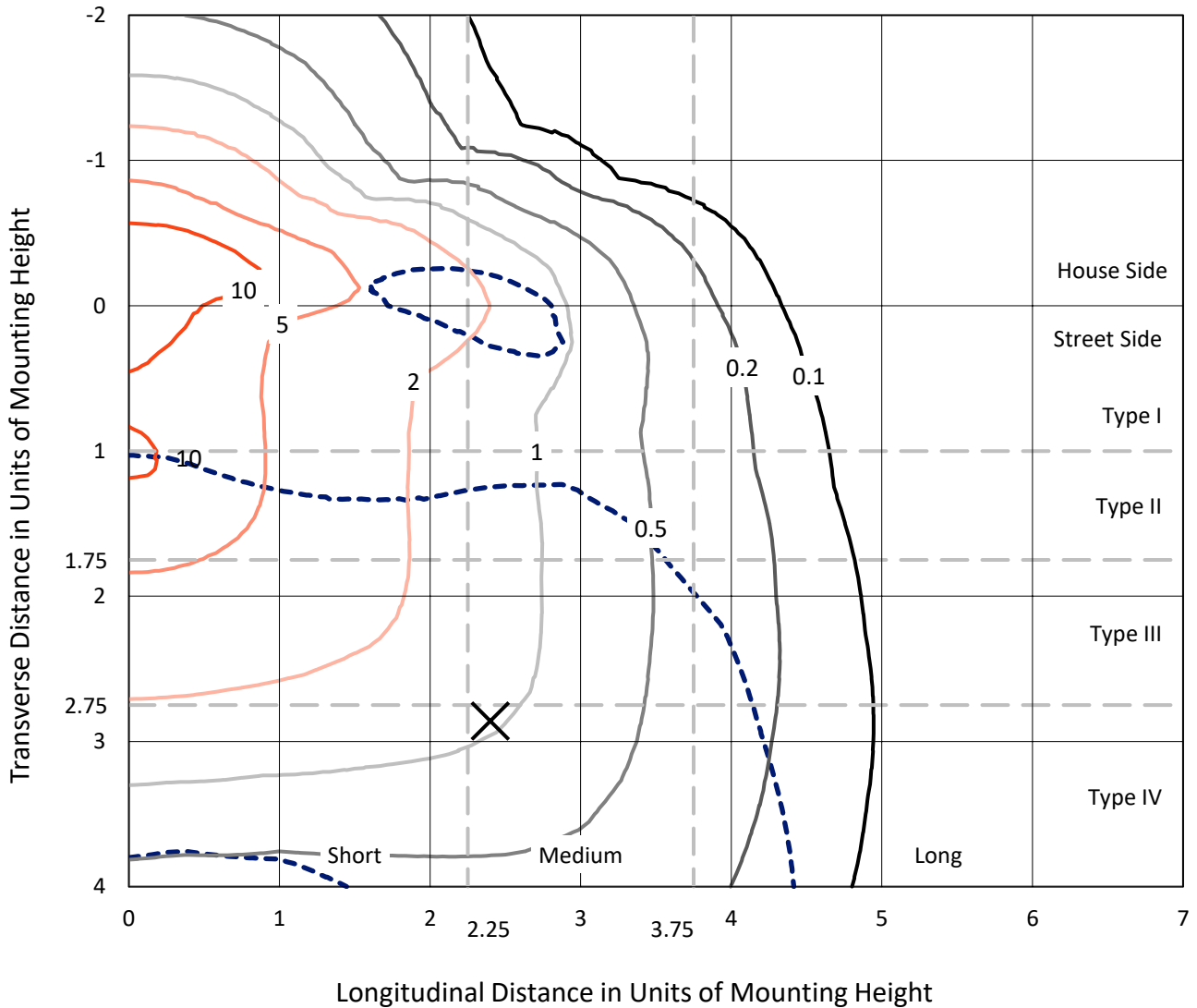
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

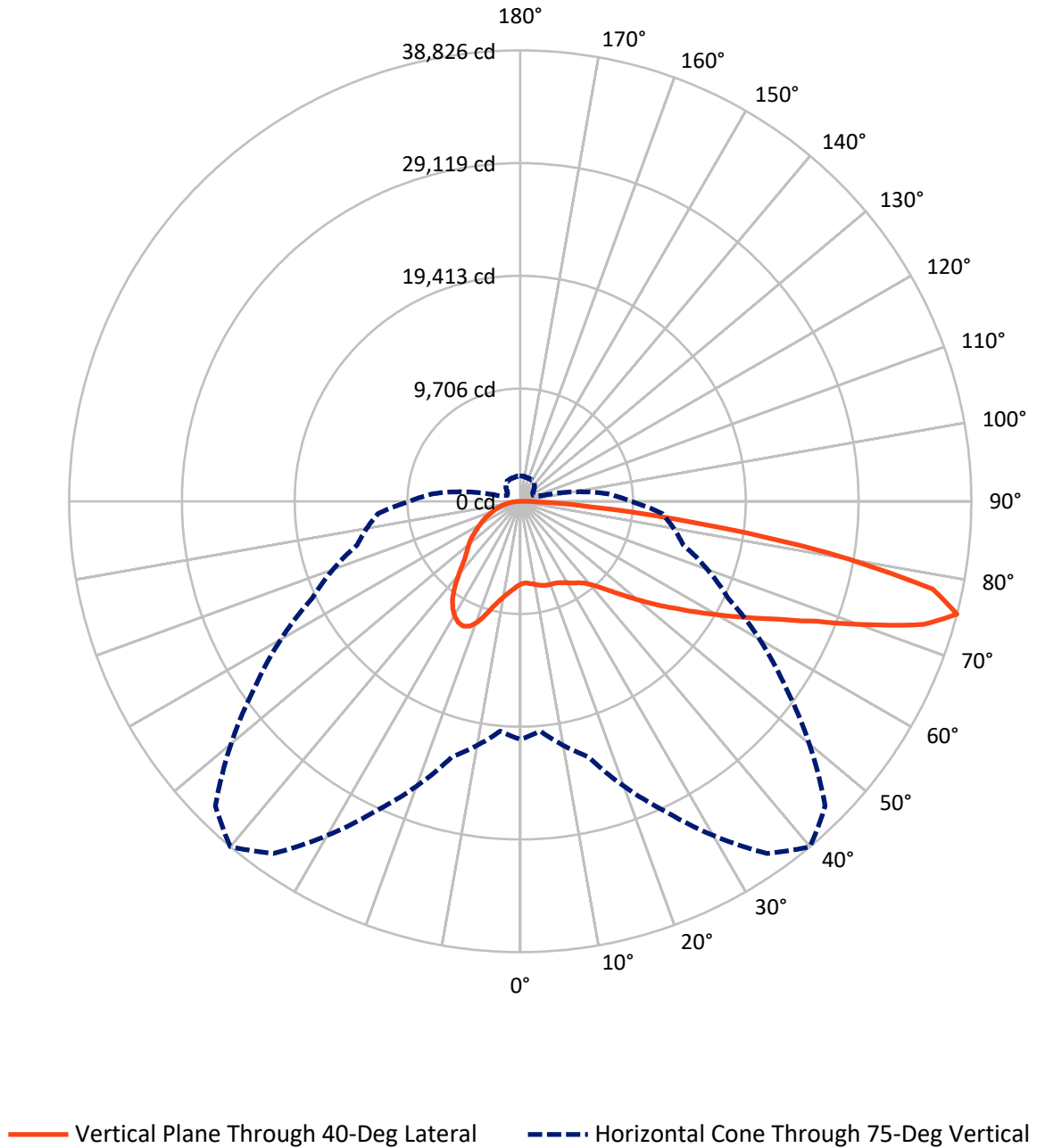
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	19327.4	0.0	19327.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	43052.6	0.0	43052.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	62380.0	0.0	62380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.0	1.1
10°-20°	2390.6	3.8
20°-30°	4365.1	7.0
30°-40°	6190.9	9.9
40°-50°	8359.6	13.4
50°-60°	11245.8	18.0
60°-70°	14273.6	22.9
70°-80°	12954.1	20.8
80°-90°	1888.3	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°	62380.0	100.0
0°-180°	62380.0	100.0



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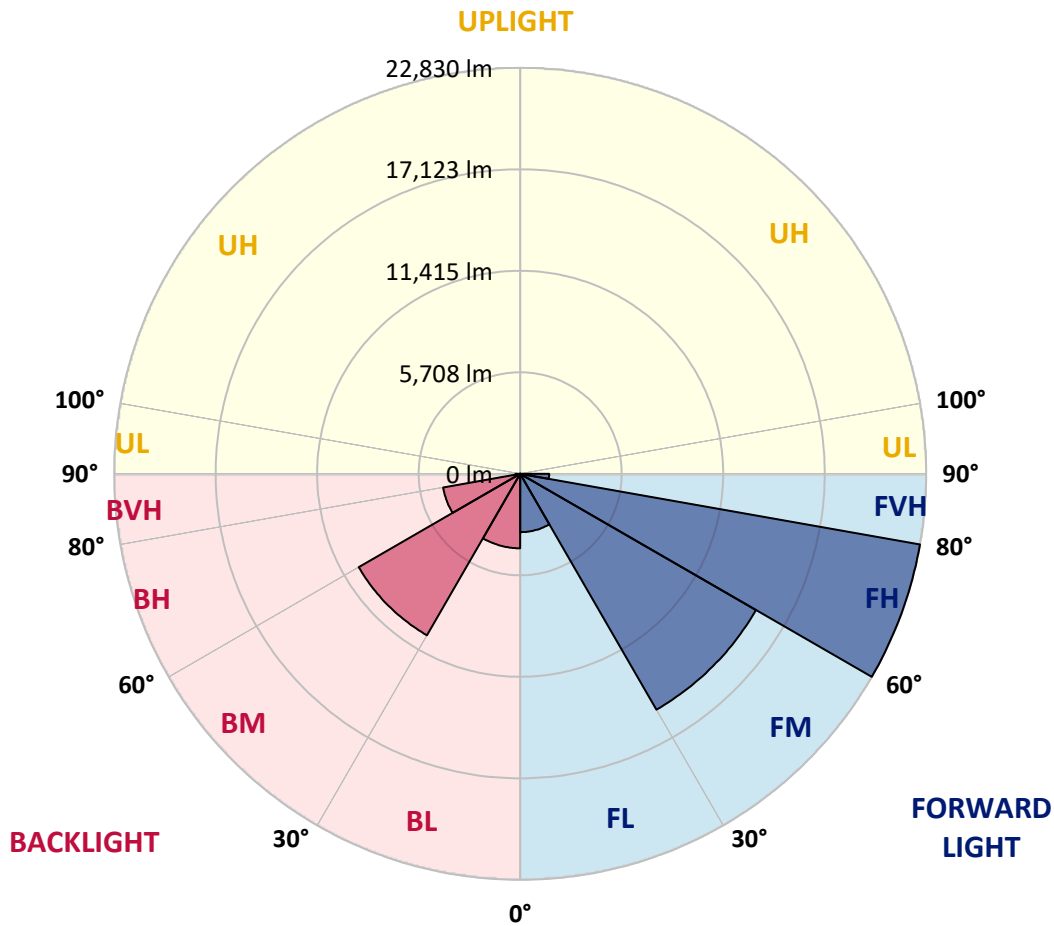
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3281.2	5.3			
FM (30°-60°)	15312.9	24.5			
FH (60°-80°)	22830.1	36.6			G5
FVH (80°-90°)	1628.3	2.6			G5
BL (0°-30°)	4186.5	6.7	B4/5000		
BM (30°-60°)	10483.4	16.8	B5		
BH (60°-80°)	4397.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	260.0	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2
2.5°	7024.1	7063.8	7053.8	7040.6	7040.6	7043.9	7040.6	7063.8	7086.9	7110.1
5°	7096.8	7136.5	7116.7	7100.2	7086.9	7083.6	7073.7	7070.4	7083.6	7113.4
7.5°	7239.1	7278.8	7249.0	7219.3	7192.8	7179.6	7166.3	7146.5	7136.5	7153.1
10°	7397.9	7437.6	7401.2	7348.3	7305.3	7288.7	7275.5	7255.7	7242.4	7252.3
12.5°	7556.7	7596.4	7546.8	7474.0	7417.8	7407.8	7391.3	7384.7	7381.4	7378.1
15°	7705.6	7738.7	7675.8	7589.8	7530.3	7513.7	7497.2	7507.1	7523.6	7543.5
17.5°	7821.4	7854.5	7761.9	7649.4	7593.1	7586.5	7576.6	7609.7	7656.0	7705.6
20°	7927.3	7960.4	7841.3	7689.1	7622.9	7622.9	7626.2	7695.7	7761.9	7834.6
22.5°	8076.2	8102.6	7957.1	7748.6	7652.7	7659.3	7685.8	7755.2	7838.0	7937.2
25°	8297.8	8317.7	8139.0	7861.1	7751.9	7771.8	7794.9	7828.0	7907.4	8023.2
27.5°	8655.2	8671.7	8436.8	8059.6	7894.2	7927.3	7960.4	7937.2	7973.6	8072.9
30°	9158.1	9168.0	8870.2	8370.6	8135.7	8152.3	8158.9	8062.9	7993.5	8072.9
32.5°	9753.6	9750.3	9396.3	8747.8	8410.3	8393.8	8337.5	8149.0	7986.8	8056.3
35°	10676.7	10640.3	10183.7	9277.2	8721.3	8618.8	8486.4	8244.9	8019.9	8039.8
37.5°	12205.2	12092.8	11460.8	10144.0	9184.5	8923.2	8728.0	8400.4	8092.7	8033.2
40°	13929.0	13786.7	13091.9	11331.8	9879.3	9459.1	9144.8	8622.1	8211.8	8062.9
42.5°	15973.7	15771.9	15024.1	12731.3	10759.4	10150.6	9677.5	8903.3	8387.2	8158.9
45°	18484.9	18216.9	17158.1	14309.5	11867.8	11057.2	10425.2	9330.1	8655.2	8344.2
47.5°	21022.5	21088.7	19583.3	16116.0	13197.8	12175.5	11361.6	9972.0	9045.6	8641.9
50°	23719.0	23765.3	21995.2	18117.6	14706.5	13439.3	12413.7	10689.9	9588.2	9065.4
52.5°	25823.2	25829.9	24185.5	20211.9	16278.1	14828.9	13548.5	11510.4	10216.8	9627.9
55°	27140.0	27123.5	25720.7	22193.8	18084.5	16288.0	14805.8	12443.5	10984.4	10289.6
57.5°	28096.2	28046.6	26779.4	23897.7	20010.1	18011.8	16228.4	13502.2	11890.9	11077.0
60°	28460.2	28430.4	27497.4	25370.0	22035.0	19917.5	17869.5	14686.7	12919.9	12006.7
62.5°	28599.1	28655.4	28202.1	26796.0	24202.1	22028.3	19672.6	16102.7	14077.9	13058.9
65°	29088.8	29191.3	29098.7	28662.0	26650.4	24499.8	22064.7	17786.8	15341.8	14187.1
67.5°	30058.2	30160.8	30200.5	30895.2	29641.3	27580.1	25049.0	19884.4	16820.7	15358.3
70°	30035.0	30005.2	30706.7	32671.9	33386.6	31844.8	29072.2	22465.1	18584.1	16331.0
72.5°	27338.6	27100.3	28757.9	32652.1	36503.2	36298.1	33985.4	25793.5	20106.1	16450.1
75°	20509.7	19874.5	22802.5	29426.3	37022.7	38825.8	37108.7	27858.0	19745.4	14534.5
77.5°	8771.0	8132.4	11583.2	21783.5	33135.1	36294.8	34243.5	24304.6	15761.9	9611.3
80°	2296.1	2292.8	3500.4	9876.0	22534.5	26802.6	23513.9	15695.8	9005.9	3434.3
82.5°	949.6	926.4	1287.0	3841.2	11010.9	15040.7	12274.7	7000.9	3252.3	929.7
85°	354.0	350.7	625.3	1326.7	3884.2	6203.5	4489.7	1789.9	810.6	453.3
87.5°	99.3	95.9	135.7	459.9	946.2	1435.9	767.6	294.5	228.3	178.7
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°
7133.2	0°	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2	7133.2
7146.5	2.5°	7156.4	7172.9	7202.7	7225.9	7255.7	7288.7	7335.1	7364.8	7394.6	7414.5
7163.0	5°	7186.2	7222.6	7298.7	7374.8	7464.1	7546.8	7642.8	7712.2	7768.5	7785.0
7222.6	7.5°	7252.3	7311.9	7440.9	7570.0	7712.2	7847.9	7986.8	8106.0	8201.9	8238.3
7328.4	10°	7368.1	7447.5	7629.5	7811.5	8000.1	8208.5	8387.2	8559.2	8694.9	8751.1
7454.2	12.5°	7513.7	7613.0	7851.2	8102.6	8364.0	8651.9	8883.5	9095.2	9263.9	9340.0
7629.5	15°	7702.3	7831.3	8135.7	8473.2	8857.0	9257.3	9551.8	9786.7	9975.3	10067.9
7811.5	17.5°	7907.4	8079.5	8463.3	8972.8	9522.0	10048.1	10392.2	10564.2	10759.4	10848.7
7980.2	20°	8106.0	8317.7	8866.9	9608.0	10339.2	10898.4	11176.3	11222.6	11235.8	11245.8
8139.0	22.5°	8311.1	8595.6	9373.1	10408.7	11192.8	11579.9	11619.6	11421.1	11143.2	11014.2
8294.5	25°	8536.1	8913.2	10034.8	11292.1	11927.3	11973.6	11669.3	11186.2	10660.2	10418.6
8420.3	27.5°	8754.4	9280.5	10828.9	12135.8	12456.7	12049.7	11394.6	10709.8	10074.5	9819.8
8509.6	30°	8972.8	9700.7	11705.7	12873.6	12698.2	11861.2	10961.2	10197.0	9558.4	9290.4
8589.0	32.5°	9194.5	10190.3	12714.8	13406.2	12655.2	11460.8	10421.9	9621.3	9058.8	8777.6
8658.5	35°	9445.9	10792.5	13670.9	13697.4	12367.4	10871.9	9710.6	8933.1	8443.4	8218.4
8741.2	37.5°	9773.5	11556.8	14514.6	13770.2	11864.5	10008.4	8827.2	8119.2	7715.5	7613.0
8863.6	40°	10180.4	12476.5	15159.8	13654.4	11120.0	8959.6	7861.1	7295.4	7067.1	7090.2
9029.0	42.5°	10709.8	13505.5	15613.1	13356.6	10084.5	7877.7	7014.1	6762.7	6871.9	6964.5
9277.2	45°	11398.0	14574.2	15894.3	12850.4	8913.2	6961.2	6514.5	6574.1	6656.8	6666.7
9677.5	47.5°	12278.0	15656.1	16079.6	12086.1	7718.8	6316.0	6196.9	6210.2	6193.6	6124.1
10276.4	50°	13376.5	16708.2	16245.0	11073.7	6703.1	5912.4	5753.6	5707.3	5479.0	5254.0
11073.7	52.5°	14627.1	17674.3	16314.5	9816.5	5912.4	5574.9	5316.8	5025.7	4598.9	4529.4
12076.2	55°	16016.7	18567.6	16135.8	8271.4	5247.4	5141.5	4751.1	4400.4	4354.1	4294.5
13396.3	57.5°	17677.6	19530.4	15771.9	6547.6	4565.8	4635.3	4254.8	4294.5	4211.8	4119.1
15093.6	60°	19494.0	20526.3	15133.3	4976.1	3861.1	4003.3	4125.8	4122.5	4099.3	4023.2
16883.5	62.5°	21128.4	21181.3	13876.1	3811.5	3242.4	3513.7	3847.8	3844.5	3824.7	3781.7
18752.9	65°	22101.1	21082.1	11778.4	3000.9	2732.9	3110.0	3470.7	3497.1	3500.4	3497.1
20159.0	67.5°	21929.1	19920.8	8900.0	2388.8	2312.7	2699.8	3096.8	3133.2	3159.7	3166.3
20337.7	70°	19983.6	17369.9	5803.2	1905.7	1938.8	2339.1	2742.8	2779.2	2802.3	2828.8
17647.8	72.5°	15576.7	12771.0	3321.8	1541.8	1611.3	2028.1	2392.1	2435.1	2448.3	2498.0
12281.3	75°	9492.2	7510.4	1793.2	1214.2	1323.4	1733.7	2044.7	2094.3	2117.5	2177.0
6031.5	77.5°	4512.9	3252.3	1022.3	946.2	1065.4	1416.1	1727.1	1783.3	1720.4	1753.5
1664.2	80°	1525.2	1207.6	645.2	721.3	813.9	1105.1	1383.0	1439.2	1306.9	1300.3
552.5	82.5°	532.7	489.7	410.3	479.7	526.1	790.7	1045.5	1118.3	972.7	969.4
248.1	85°	208.4	198.5	228.3	261.4	314.3	486.4	688.2	724.6	598.8	483.0
72.8	87.5°	43.0	46.3	56.2	59.6	95.9	168.7	248.1	304.4	241.5	205.1
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>
7133.2
7401.2
7791.6
8241.6
8754.4
9340.0
10061.3
10845.4
11272.2
11050.6
10455.0
9849.6
9320.2
8814.0
8268.1
7685.8
7169.6
7050.5
6732.9
6177.1
5283.8
4552.6
4304.4
4102.6
3996.7
3765.1
3497.1
3172.9
2842.0
2517.8
2183.6
1727.1
1287.0
923.1
476.4
188.6
0.0

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