

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: P957291

Luminaire Tested: **GALN-SB9C-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957291
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-SB9C-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 48310 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

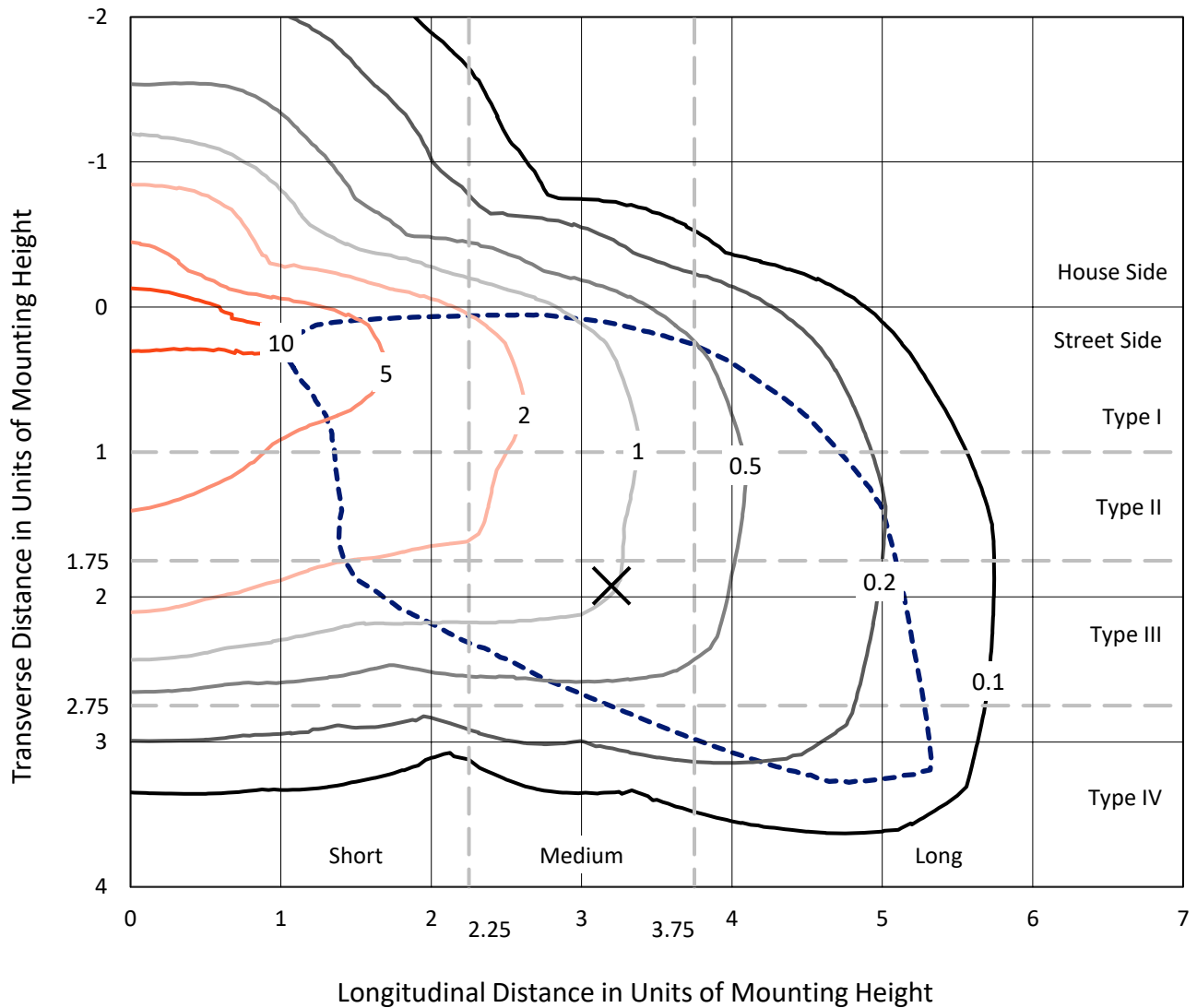
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

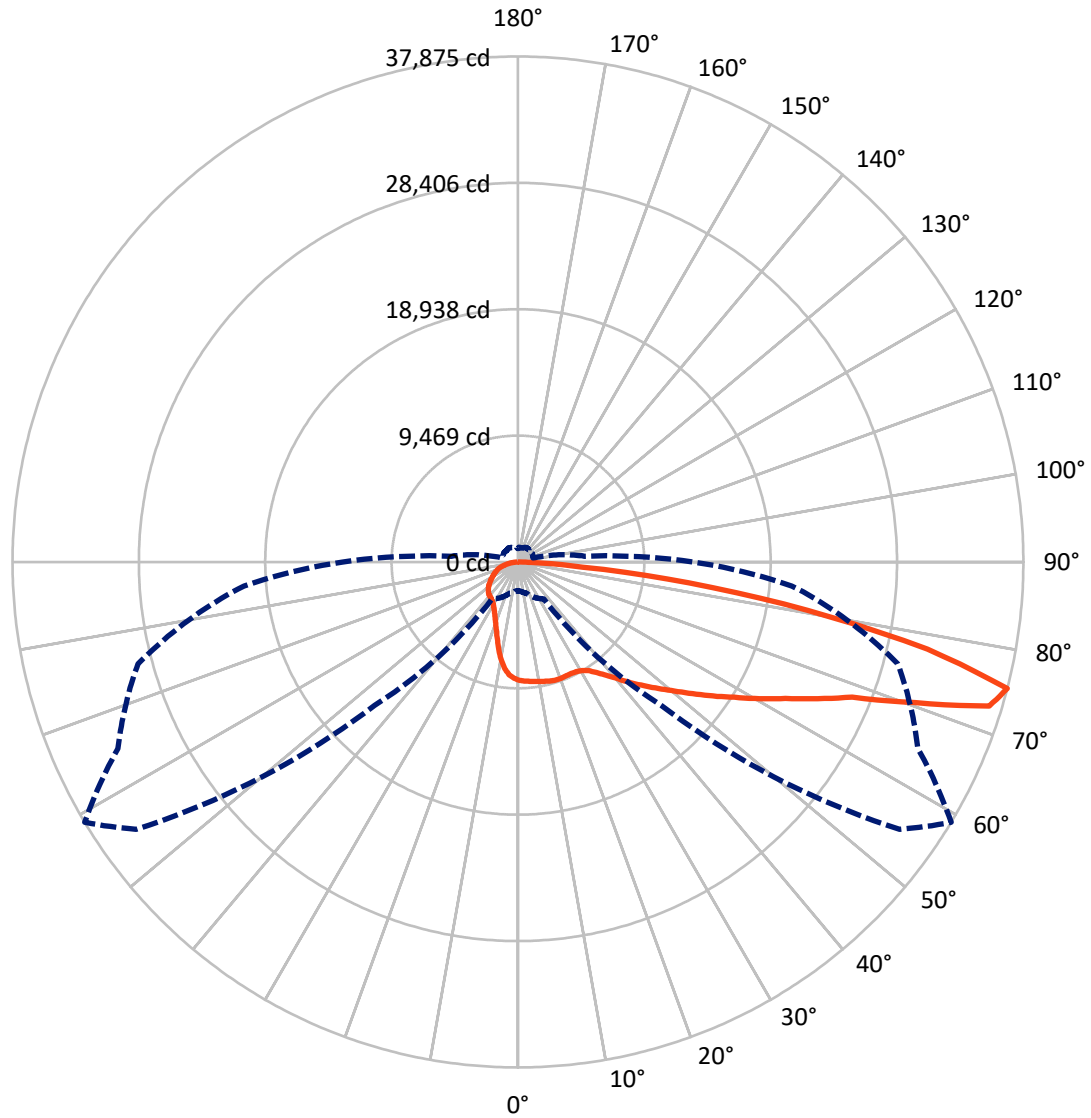
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	9060.9	0.0	9060.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39249.1	0.0	39249.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	48310.0	0.0	48310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.1	1.6
10°-20°	2032.3	4.2
20°-30°	3086.9	6.4
30°-40°	4588.6	9.5
40°-50°	6824.0	14.1
50°-60°	9262.8	19.2
60°-70°	11308.4	23.4
70°-80°	8874.7	18.4
80°-90°	1537.3	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°	48310.0	100.0
0°-180°	48310.0	100.0

Coefficient of Utilization



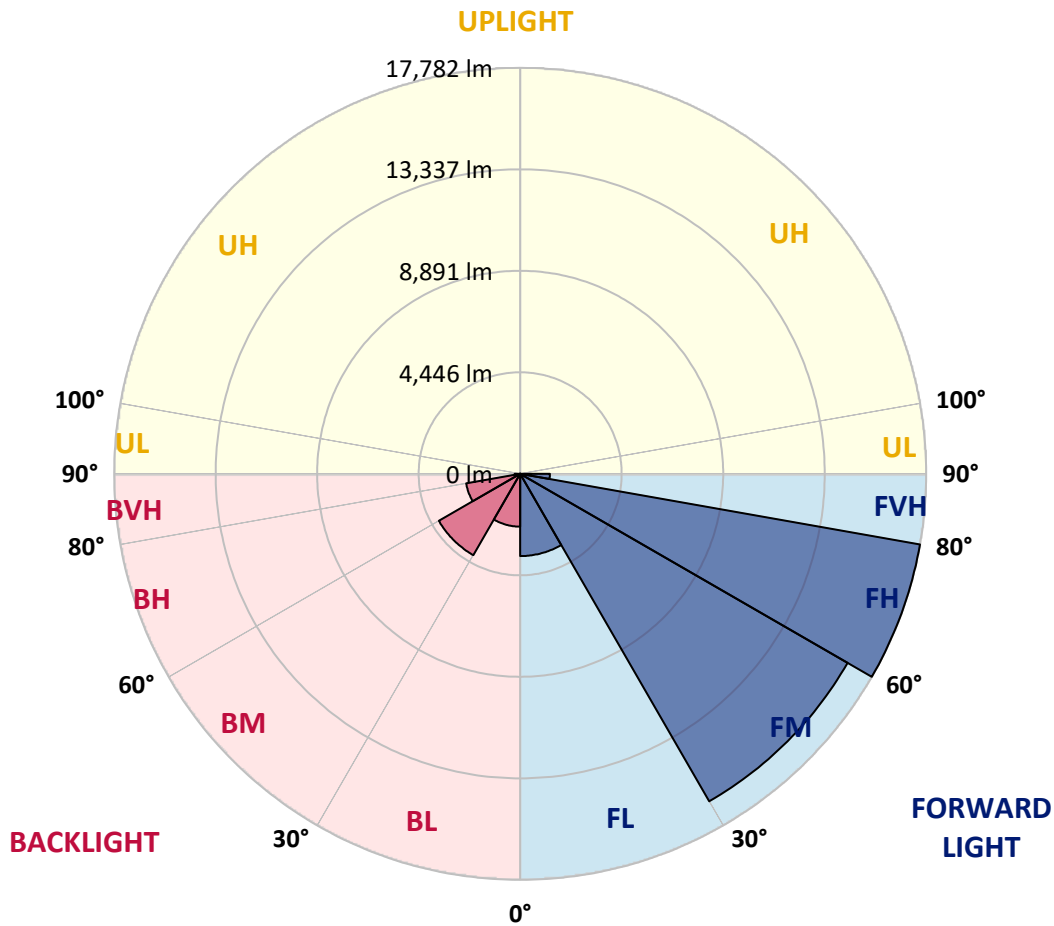
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3602.0	7.5			
FM (30°-60°)	16562.7	34.3			
FH (60°-80°)	17782.4	36.8			G5
FVH (80°-90°)	1302.0	2.7			G5
BL (0°-30°)	2312.2	4.8	B3/2500		
BM (30°-60°)	4112.7	8.5	B3/5000		
BH (60°-80°)	2400.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	235.3	0.5			G3/500
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°	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2
2.5°	8942.6	8911.4	8942.6	8929.6	8924.4	8914.0	8916.6	8934.8	8924.4	8937.4
5°	8882.8	8864.6	8895.8	8888.0	8921.8	8927.0	8960.8	8981.5	8994.5	8997.1
7.5°	8784.0	8765.8	8810.0	8846.4	8919.2	8940.0	9010.1	9043.9	9062.1	9093.3
10°	8422.8	8415.0	8524.1	8661.9	8833.4	8940.0	9046.5	9103.7	9132.3	9215.4
12.5°	7783.5	7793.9	7936.8	8201.9	8544.9	8888.0	9088.1	9171.3	9215.4	9319.4
15°	7172.8	7170.2	7326.1	7609.4	8090.1	8659.3	9108.9	9251.8	9327.2	9480.5
17.5°	6819.3	6808.9	6918.1	7133.8	7580.8	8308.4	9056.9	9296.0	9457.1	9649.4
20°	6754.3	6733.6	6790.7	6897.3	7214.3	7923.8	8921.8	9296.0	9561.1	9810.6
22.5°	6990.8	6957.1	6933.7	6920.7	7061.0	7606.8	8768.4	9264.8	9714.4	10041.9
25°	7466.4	7414.4	7294.9	7178.0	7136.4	7463.8	8633.3	9257.0	9943.1	10353.7
27.5°	8235.7	8170.7	7929.0	7648.3	7396.3	7536.6	8573.5	9303.8	10195.2	10683.8
30°	9189.4	9119.3	8815.2	8383.8	7931.6	7806.9	8648.9	9441.5	10517.4	11123.0
32.5°	10044.5	9966.5	9706.6	9267.4	8656.7	8274.7	8888.0	9704.0	11024.2	11733.7
35°	10803.3	10712.4	10478.5	10073.0	9545.5	8932.2	9319.4	10169.2	11744.1	12726.4
37.5°	11546.6	11440.0	11185.3	10756.5	10387.5	9808.0	9914.5	10766.9	12700.5	13932.3
40°	12378.2	12224.9	11915.6	11492.0	11133.4	10834.5	10696.8	11499.8	13672.4	15278.5
42.5°	13183.8	13038.3	12669.3	12308.0	11858.4	11772.7	11603.8	12357.4	14735.3	16757.2
45°	14051.8	13877.7	13430.7	12973.3	12690.1	12396.4	12482.2	13215.0	15777.5	18264.5
47.5°	14865.3	14670.4	14142.8	13633.4	13477.5	12921.4	13287.8	14158.4	16861.2	19792.7
50°	15304.5	15112.2	14673.0	14213.0	14090.8	13568.5	14161.0	15195.3	17996.9	21315.6
52.5°	15670.9	15463.0	14888.7	14634.0	14597.6	14272.8	15236.9	16380.4	19132.6	22661.8
55°	16060.7	15829.4	15096.6	14867.9	15034.2	15062.8	16512.9	17724.0	20333.2	23974.2
57.5°	16510.3	16216.7	15296.7	15065.4	15460.4	15988.0	17978.7	19117.0	21513.1	25190.4
60°	16933.9	16637.7	15681.3	15379.8	15920.4	17061.3	19660.1	20803.6	22848.9	26274.1
62.5°	17017.1	16772.8	15988.0	15985.4	16544.1	18313.9	21650.8	22505.8	24015.7	27344.8
65°	15577.4	15424.0	14958.8	15962.0	17438.1	20117.5	23867.6	24683.6	25499.7	28280.4
67.5°	11855.8	11876.6	11842.8	13779.0	16715.6	22708.5	27077.2	27014.8	27331.8	29330.3
70°	5421.2	5543.3	6338.5	9511.7	13391.7	23007.4	32384.0	31575.7	29631.8	30689.5
72.5°	2928.9	3022.4	3347.3	4607.7	8051.2	20455.4	36349.8	36924.1	32690.6	31604.3
75°	2149.2	2201.2	2427.3	2928.9	3381.1	15203.1	34928.2	37875.3	33072.7	29470.7
77.5°	1608.7	1632.1	1816.6	2320.8	1730.8	8014.8	27908.8	31367.8	28311.6	24213.3
80°	1166.9	1192.9	1330.6	1741.2	1213.7	2931.5	19163.7	22017.3	19389.8	15434.4
82.5°	805.6	816.0	875.8	1185.1	847.2	1138.3	10873.5	12911.0	10824.1	5416.0
85°	486.0	499.0	525.0	691.3	480.8	540.6	4693.5	4854.6	3235.5	1294.2
87.5°	200.1	213.1	233.9	291.1	189.7	150.7	774.5	972.0	605.5	379.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957291
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8867.2	0°	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2	8867.2
8893.2	2.5°	8880.2	8862.0	8812.6	8745.0	8682.7	8604.7	8570.9	8542.3	8516.4	8467.0
8963.3	5°	8934.8	8885.4	8752.8	8581.3	8386.4	8173.3	7965.4	7822.5	7700.3	7609.4
9043.9	7.5°	9017.9	8924.4	8682.7	8331.8	7884.8	7427.4	7014.2	6720.6	6499.7	6419.1
9158.3	10°	9103.7	8991.9	8570.9	7952.4	7180.6	6476.3	5927.9	5626.5	5449.7	5392.6
9293.4	12.5°	9205.0	9041.3	8396.8	7424.8	6393.1	5621.3	5143.1	4966.4	4875.4	4844.2
9459.7	15°	9353.2	9082.9	8134.3	6764.7	5642.1	4997.5	4688.3	4566.1	4519.4	4516.8
9631.2	17.5°	9464.9	9090.7	7726.3	6057.9	5065.1	4620.7	4366.0	4319.2	4350.4	4397.2
9800.2	20°	9589.7	9020.5	7191.0	5413.4	4659.7	4290.7	4184.1	4215.3	4290.7	4358.2
10023.7	22.5°	9678.0	8893.2	6543.8	4911.8	4308.9	4100.9	4095.7	4160.7	4202.3	4236.1
10286.2	25°	9756.0	8677.5	5857.8	4490.8	4020.4	3986.6	4043.8	4023.0	3994.4	4023.0
10548.6	27.5°	9813.2	8337.0	5244.4	4121.7	3817.7	3908.6	3874.8	3828.1	3825.5	3841.1
10857.9	30°	9795.0	7882.2	4740.3	3770.9	3674.7	3763.1	3682.5	3674.7	3666.9	3674.7
11323.1	32.5°	9795.0	7365.1	4353.0	3529.2	3583.8	3550.0	3542.2	3524.0	3492.8	3490.2
11954.6	35°	9849.5	6847.9	4020.4	3399.3	3508.4	3427.9	3433.0	3388.9	3323.9	3292.7
12791.4	37.5°	9961.3	6432.1	3690.3	3336.9	3375.9	3373.3	3352.5	3277.1	3162.8	3064.0
13836.1	40°	10231.6	6309.9	3464.2	3308.3	3313.5	3344.7	3290.1	3144.6	2884.7	2723.6
14896.5	42.5°	10655.2	6515.3	3414.9	3238.1	3271.9	3303.1	3196.6	2858.7	2674.2	2578.0
16008.8	45°	11193.1	6873.9	3521.4	3136.8	3173.2	3227.7	2910.7	2749.6	2666.4	2669.0
17110.7	47.5°	11874.0	7250.7	3718.9	3048.4	3030.2	3061.4	2721.0	2622.2	2507.9	2536.5
18168.4	50°	12661.5	7632.8	3906.0	2928.9	2871.7	2770.3	2598.8	2505.3	2359.7	2292.2
19189.7	52.5°	13513.9	8001.8	3981.4	2783.3	2700.2	2583.2	2515.7	2401.3	2224.6	2112.8
20153.9	55°	14322.1	8337.0	3898.2	2609.2	2528.7	2437.7	2427.3	2357.1	2167.4	2011.5
21011.5	57.5°	15086.2	8617.7	3690.3	2432.5	2354.5	2300.0	2370.1	2336.3	2097.3	1897.1
21822.3	60°	15733.3	8810.0	3388.9	2253.2	2198.6	2170.0	2276.6	2266.2	1998.5	1775.0
22550.0	62.5°	16247.9	8885.4	3056.2	2081.7	2068.7	2016.7	2146.6	2146.6	1873.8	1655.5
23189.3	65°	16650.7	8812.6	2718.4	1912.7	1938.7	1860.8	1988.1	1972.5	1741.2	1548.9
23924.8	67.5°	17006.7	8573.5	2344.1	1746.4	1806.2	1707.4	1821.8	1785.4	1595.7	1442.3
24561.5	70°	17165.2	8017.4	1917.9	1580.1	1652.9	1556.7	1655.5	1587.9	1432.0	1328.0
23862.4	72.5°	15891.8	6663.4	1509.9	1406.0	1468.3	1390.4	1476.1	1398.2	1255.2	1208.5
20606.1	75°	13147.5	5000.1	1161.7	1216.3	1263.0	1203.3	1260.4	1203.3	1073.3	1107.1
15221.3	77.5°	9548.1	3375.9	888.8	1016.1	1036.9	1005.7	1055.1	990.2	873.2	865.4
7586.0	80°	4748.1	1977.7	696.5	803.0	795.2	774.5	831.6	800.4	701.7	743.3
2047.9	82.5°	1374.8	847.2	506.8	563.9	548.4	553.5	595.1	610.7	914.8	907.0
636.7	85°	431.4	332.6	304.1	314.5	298.9	306.7	350.8	696.5	644.5	376.8
197.5	87.5°	111.7	114.3	75.4	80.6	83.2	98.8	111.7	423.6	202.7	132.5
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>
8867.2
8443.6
7534.0
6278.8
5304.2
4852.0
4527.2
4415.4
4381.6
4254.3
4041.2
3867.1
3703.3
3524.0
3323.9
3097.8
2744.4
2578.0
2682.0
2609.2
2310.4
2110.2
2011.5
1886.7
1767.2
1647.7
1538.5
1432.0
1307.2
1169.5
<i>1010.9</i>
826.4
735.5
927.8
408.0
140.3
0.0

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