

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: P942722

Luminaire Tested: **GALN-SB6D-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942722
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-SB6D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 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: 58509 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

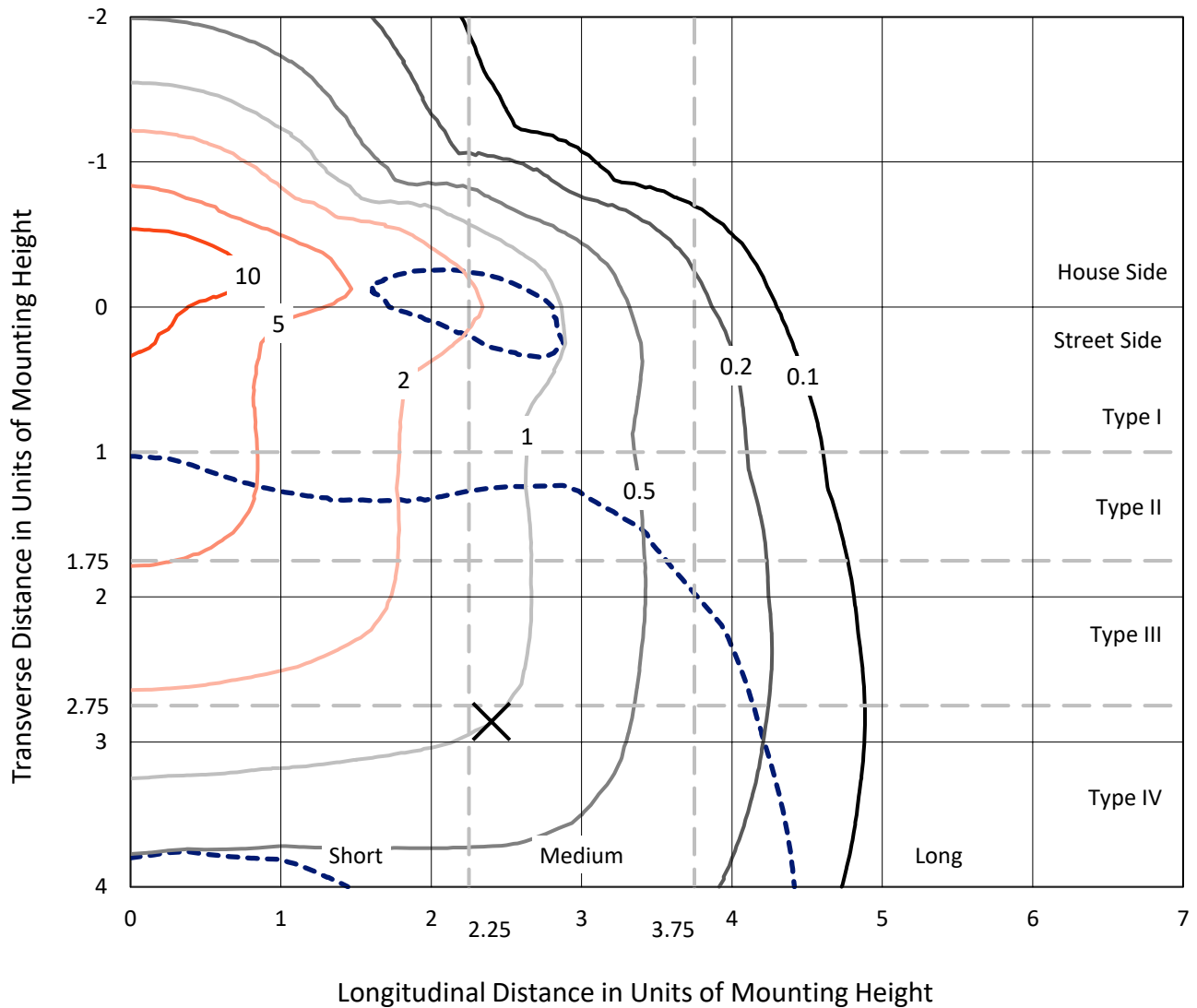
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

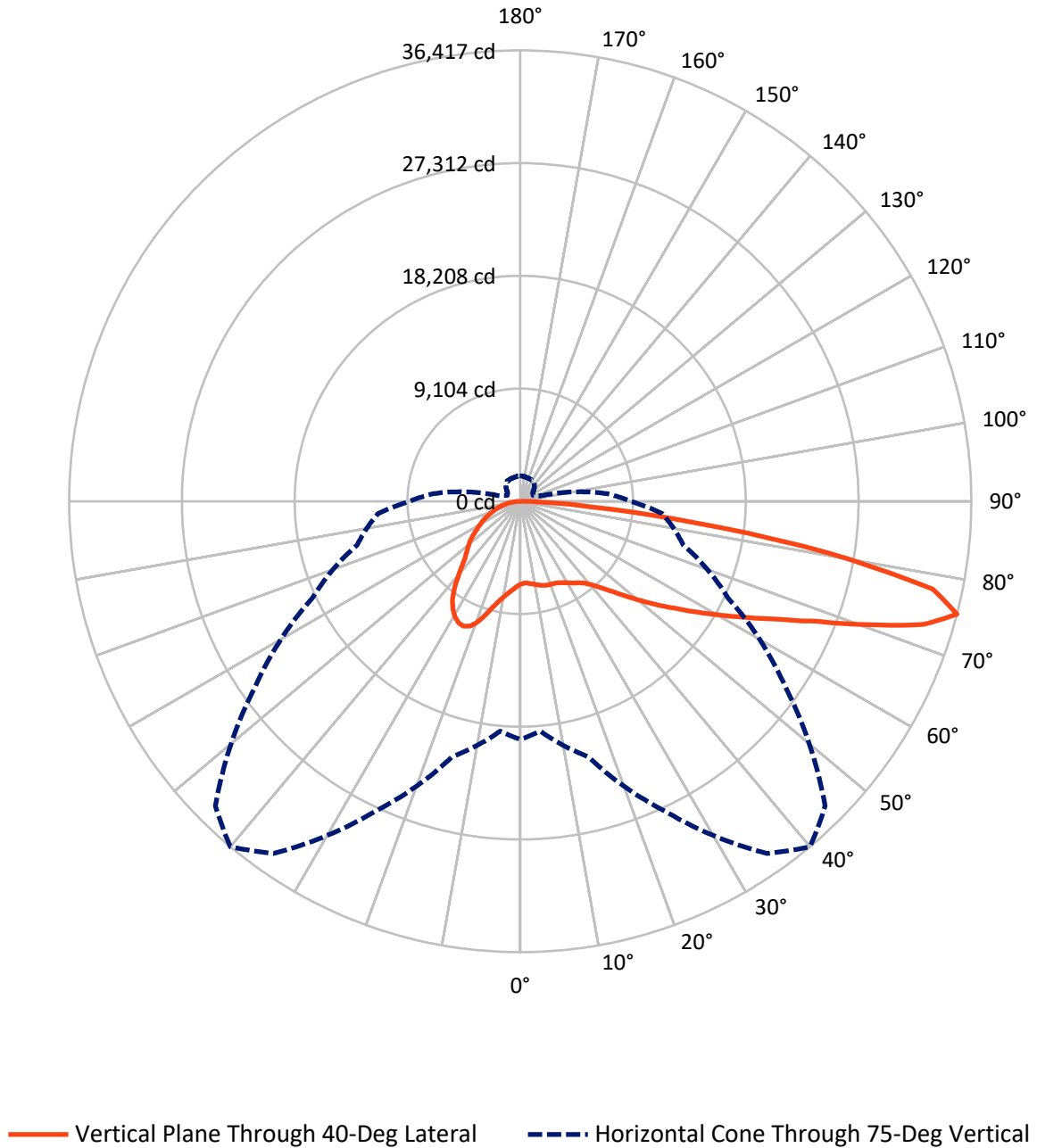
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	18128.0	0.0	18128.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	40381.0	0.0	40381.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	58509.0	0.0	58509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.9	1.1
10°-20°	2242.3	3.8
20°-30°	4094.2	7.0
30°-40°	5806.7	9.9
40°-50°	7840.8	13.4
50°-60°	10548.0	18.0
60°-70°	13387.8	22.9
70°-80°	12150.3	20.8
80°-90°	1771.1	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°	58509.0	100.0
0°-180°	58509.0	100.0

Coefficient of Utilization



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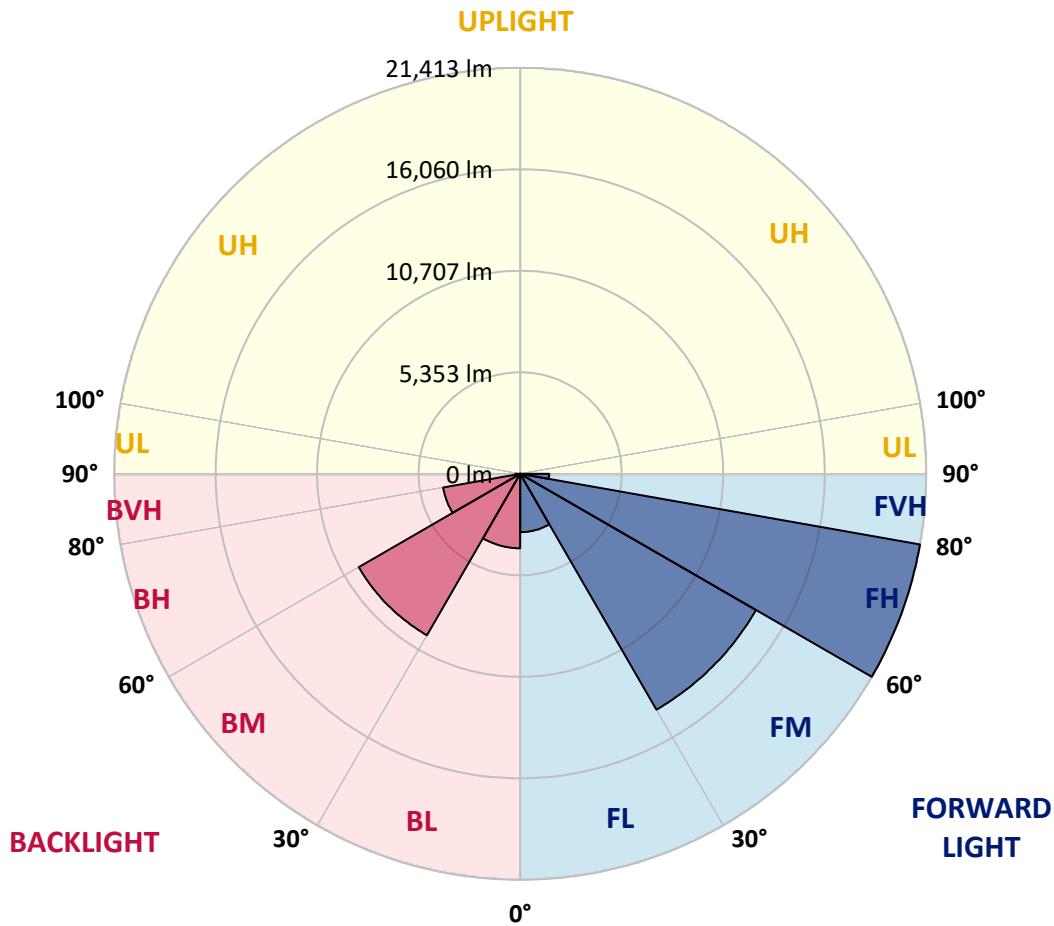
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3077.6	5.3			
FM (30°-60°)	14362.7	24.5			
FH (60°-80°)	21413.4	36.6			G5
FVH (80°-90°)	1527.3	2.6			G5
BL (0°-30°)	3926.7	6.7	B4/5000		
BM (30°-60°)	9832.8	16.8	B5		
BH (60°-80°)	4124.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	243.8	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°	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6
2.5°	6588.2	6625.4	6616.1	6603.7	6603.7	6606.8	6603.7	6625.4	6647.1	6668.9
5°	6656.4	6693.7	6675.1	6659.5	6647.1	6644.0	6634.7	6631.6	6644.0	6672.0
7.5°	6789.9	6827.1	6799.2	6771.3	6746.4	6734.0	6721.6	6703.0	6693.7	6709.2
10°	6938.8	6976.1	6941.9	6892.3	6852.0	6836.4	6824.0	6805.4	6793.0	6802.3
12.5°	7087.8	7125.0	7078.5	7010.2	6957.5	6948.2	6932.6	6926.4	6923.3	6920.2
15°	7227.4	7258.5	7199.5	7118.8	7063.0	7047.5	7031.9	7041.2	7056.8	7075.4
17.5°	7336.1	7367.1	7280.2	7174.7	7121.9	7115.7	7106.4	7137.4	7180.9	7227.4
20°	7435.4	7466.4	7354.7	7211.9	7149.9	7149.9	7153.0	7218.1	7280.2	7348.5
22.5°	7575.0	7599.8	7463.3	7267.8	7177.8	7184.0	7208.8	7274.0	7351.6	7444.7
25°	7782.9	7801.5	7634.0	7373.3	7270.9	7289.5	7311.2	7342.3	7416.7	7525.4
27.5°	8118.1	8133.6	7913.3	7559.5	7404.3	7435.4	7466.4	7444.7	7478.8	7571.9
30°	8589.8	8599.1	8319.8	7851.2	7630.9	7646.4	7652.6	7562.6	7497.4	7571.9
32.5°	9148.3	9145.2	8813.2	8205.0	7888.4	7872.9	7820.2	7643.3	7491.2	7556.4
35°	10014.2	9980.0	9551.8	8701.5	8180.1	8083.9	7959.8	7733.3	7522.3	7540.9
37.5°	11447.8	11342.3	10749.6	9514.5	8614.6	8369.4	8186.3	7879.1	7590.5	7534.7
40°	13064.6	12931.2	12279.5	10628.6	9266.3	8872.2	8577.4	8087.0	7702.2	7562.6
42.5°	14982.4	14793.1	14091.8	11941.3	10091.7	9520.7	9077.0	8350.8	7866.7	7652.6
45°	17337.8	17086.4	16093.4	13421.5	11131.3	10371.0	9778.3	8751.1	8118.1	7826.4
47.5°	19718.0	19780.0	18368.1	15115.9	12378.8	11419.9	10656.5	9353.2	8484.3	8105.7
50°	22247.1	22290.6	20630.3	16993.3	13793.9	12605.4	11643.4	10026.6	8993.2	8502.9
52.5°	24220.8	24227.0	22684.7	18957.7	15267.9	13908.7	12707.8	10796.2	9582.8	9030.4
55°	25455.9	25440.3	24124.6	20816.5	16962.3	15277.2	13887.0	11671.3	10302.8	9651.1
57.5°	26352.7	26306.2	25117.6	22414.7	18768.4	16894.0	15221.4	12664.3	11153.0	10389.6
60°	26694.1	26666.1	25791.0	23795.6	20667.6	18681.5	16760.6	13775.3	12118.1	11261.7
62.5°	26824.4	26877.1	26452.0	25133.1	22700.2	20661.4	18451.9	15103.5	13204.3	12248.5
65°	27283.7	27379.9	27293.0	26883.4	24996.6	22979.5	20695.5	16683.0	14389.7	13306.7
67.5°	28192.9	28289.1	28326.4	28978.0	27801.9	25868.6	23494.6	18650.5	15776.9	14405.2
70°	28171.2	28143.3	28801.2	30644.5	31314.8	29868.7	27268.2	21071.0	17430.9	15317.6
72.5°	25642.1	25418.6	26973.3	30625.9	34238.0	34045.6	31876.5	24192.8	18858.4	15429.3
75°	19237.0	18641.2	21387.5	27600.2	34725.2	36416.5	34805.9	26129.3	18520.1	13632.5
77.5°	8226.7	7627.8	10864.4	20431.7	31078.9	34042.5	32118.5	22796.4	14783.8	9014.9
80°	2153.6	2150.5	3283.2	9263.2	21136.2	25139.3	22054.7	14721.8	8447.0	3221.2
82.5°	890.6	868.9	1207.2	3602.9	10327.6	14107.3	11513.0	6566.5	3050.5	872.0
85°	332.0	328.9	586.5	1244.4	3643.2	5818.6	4211.1	1678.9	760.3	425.1
87.5°	93.1	90.0	127.2	431.4	887.5	1346.8	720.0	276.2	214.1	167.6
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°
6690.6	0°	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6	6690.6
6703.0	2.5°	6712.3	6727.8	6755.8	6777.5	6805.4	6836.4	6879.9	6907.8	6935.7	6954.4
6718.5	5°	6740.2	6774.4	6845.7	6917.1	7000.9	7078.5	7168.5	7233.6	7286.4	7301.9
6774.4	7.5°	6802.3	6858.2	6979.2	7100.2	7233.6	7360.9	7491.2	7602.9	7692.9	7727.1
6873.7	10°	6910.9	6985.4	7156.1	7326.7	7503.6	7699.1	7866.7	8028.1	8155.3	8208.1
6991.6	12.5°	7047.5	7140.6	7364.0	7599.8	7845.0	8115.0	8332.2	8530.8	8689.1	8760.4
7156.1	15°	7224.3	7345.4	7630.9	7947.4	8307.4	8682.9	8959.0	9179.4	9356.3	9443.2
7326.7	17.5°	7416.7	7578.1	7938.1	8416.0	8931.1	9424.5	9747.3	9908.6	10091.7	10175.5
7485.0	20°	7602.9	7801.5	8316.7	9011.8	9697.6	10222.1	10482.7	10526.2	10538.6	10547.9
7634.0	22.5°	7795.3	8062.2	8791.5	9762.8	10498.3	10861.3	10898.6	10712.4	10451.7	10330.7
7779.8	25°	8006.4	8360.1	9412.1	10591.4	11187.2	11230.6	10945.1	10492.0	9998.6	9772.1
7897.7	27.5°	8211.2	8704.6	10156.9	11382.7	11683.7	11302.0	10687.6	10045.2	9449.4	9210.4
7981.5	30°	8416.0	9098.7	10979.3	12074.7	11910.2	11125.1	10281.0	9564.2	8965.3	8713.9
8056.0	32.5°	8623.9	9558.0	11925.7	12574.3	11869.9	10749.6	9775.2	9024.2	8496.7	8232.9
8121.2	35°	8859.7	10122.8	12822.6	12847.4	11599.9	10197.2	9108.0	8378.7	7919.5	7708.4
8198.8	37.5°	9167.0	10839.6	13613.9	12915.7	11128.2	9387.3	8279.4	7615.3	7236.8	7140.6
8313.6	40°	9548.7	11702.3	14219.0	12807.1	10430.0	8403.6	7373.3	6842.6	6628.5	6650.2
8468.7	42.5°	10045.2	12667.4	14644.2	12527.8	9458.7	7388.8	6578.9	6343.0	6445.4	6532.3
8701.5	45°	10690.7	13669.8	14908.0	12053.0	8360.1	6529.2	6110.3	6166.1	6243.7	6253.0
9077.0	47.5°	11516.1	14684.5	15081.7	11336.1	7239.9	5924.1	5812.4	5824.8	5809.3	5744.1
9638.7	50°	12546.4	15671.4	15236.9	10386.5	6287.2	5545.5	5396.5	5353.1	5139.0	4927.9
10386.5	52.5°	13719.4	16577.5	15302.1	9207.3	5545.5	5229.0	4986.9	4713.8	4313.5	4248.3
11326.8	55°	15022.8	17415.4	15134.5	7758.1	4921.7	4822.4	4456.3	4127.3	4083.9	4028.0
12565.0	57.5°	16580.6	18318.4	14793.1	6141.3	4282.5	4347.6	3990.8	4028.0	3950.4	3863.5
14157.0	60°	18284.3	19252.5	14194.2	4667.3	3621.5	3754.9	3869.7	3866.6	3844.9	3773.5
15835.8	62.5°	19817.3	19866.9	13015.0	3574.9	3041.2	3295.6	3609.1	3606.0	3587.3	3547.0
17589.2	65°	20729.6	19773.8	11047.5	2814.6	2563.3	2917.0	3255.3	3280.1	3283.2	3280.1
18908.0	67.5°	20568.3	18684.6	8347.7	2240.5	2169.2	2532.2	2904.6	2938.8	2963.6	2969.8
19075.6	70°	18743.6	16292.0	5443.1	1787.5	1818.5	2194.0	2572.6	2606.7	2628.4	2653.3
16552.7	72.5°	14610.0	11978.5	3115.7	1446.1	1511.3	1902.3	2243.6	2284.0	2296.4	2342.9
11519.2	75°	8903.2	7044.4	1682.0	1138.9	1241.3	1626.1	1917.8	1964.3	1986.1	2041.9
5657.2	77.5°	4232.8	3050.5	958.9	887.5	999.2	1328.2	1619.9	1672.6	1613.7	1644.7
1560.9	80°	1430.6	1132.7	605.1	676.5	763.4	1036.5	1297.2	1349.9	1225.8	1219.6
518.2	82.5°	499.6	459.3	384.8	450.0	493.4	741.7	980.6	1048.9	912.4	909.2
232.7	85°	195.5	186.2	214.1	245.2	294.8	456.2	645.5	679.6	561.7	453.1
68.3	87.5°	40.3	43.4	52.8	55.9	90.0	158.3	232.7	285.5	226.5	192.4
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>
6690.6
6941.9
7308.1
7730.2
8211.2
8760.4
9436.9
10172.4
10572.7
10364.8
9806.2
9238.3
8741.8
8267.0
7755.0
7208.8
6724.7
6613.0
6315.1
5793.7
4955.9
4270.1
4037.3
3848.0
3748.7
3531.5
3280.1
2976.0
2665.7
2361.6
<i>2048.1</i>
1619.9
1207.2
865.8
446.9
176.9
0.0

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