

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: P941982

Luminaire Tested: **GALN-SB5D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941982
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 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: 53908 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

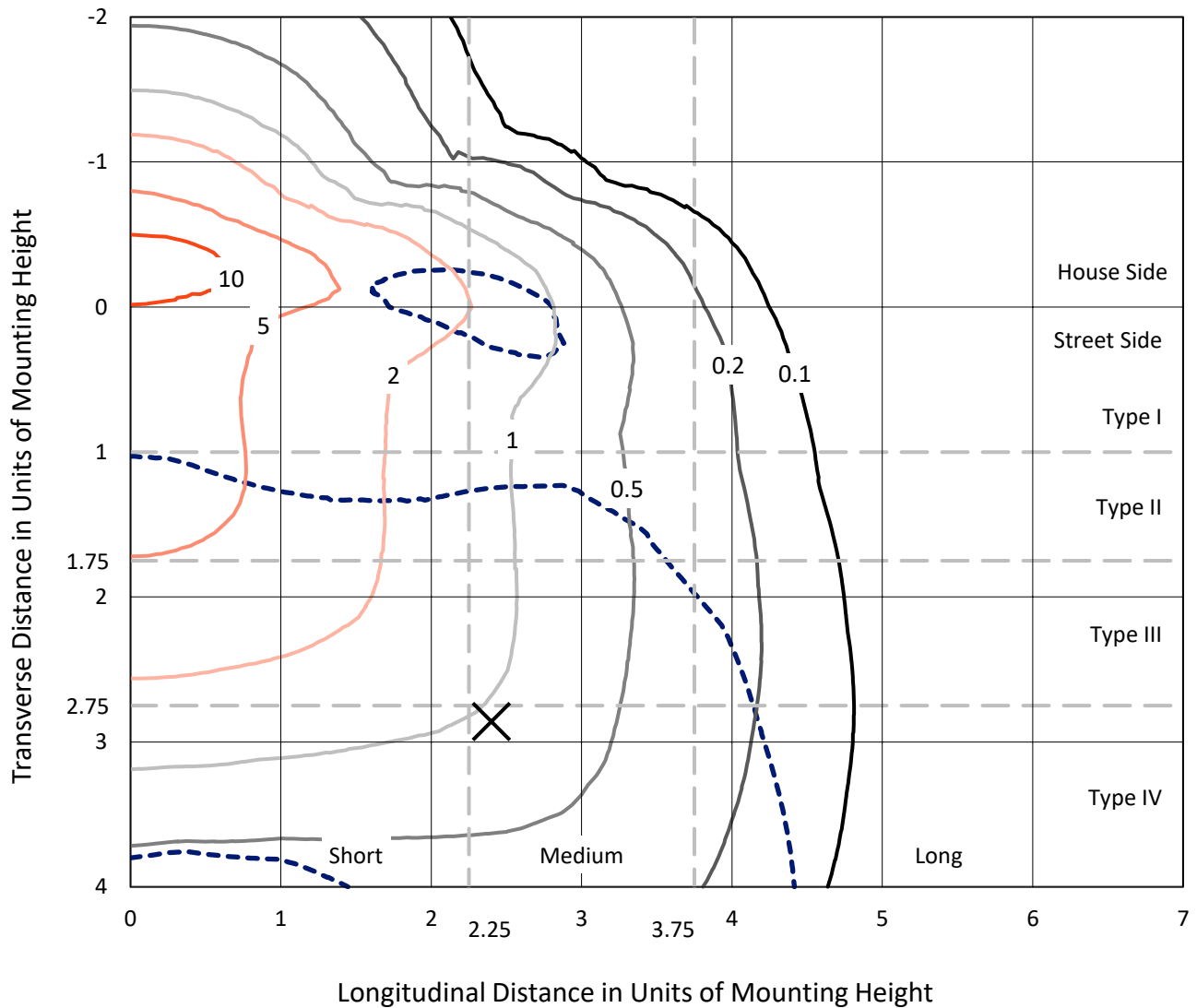
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

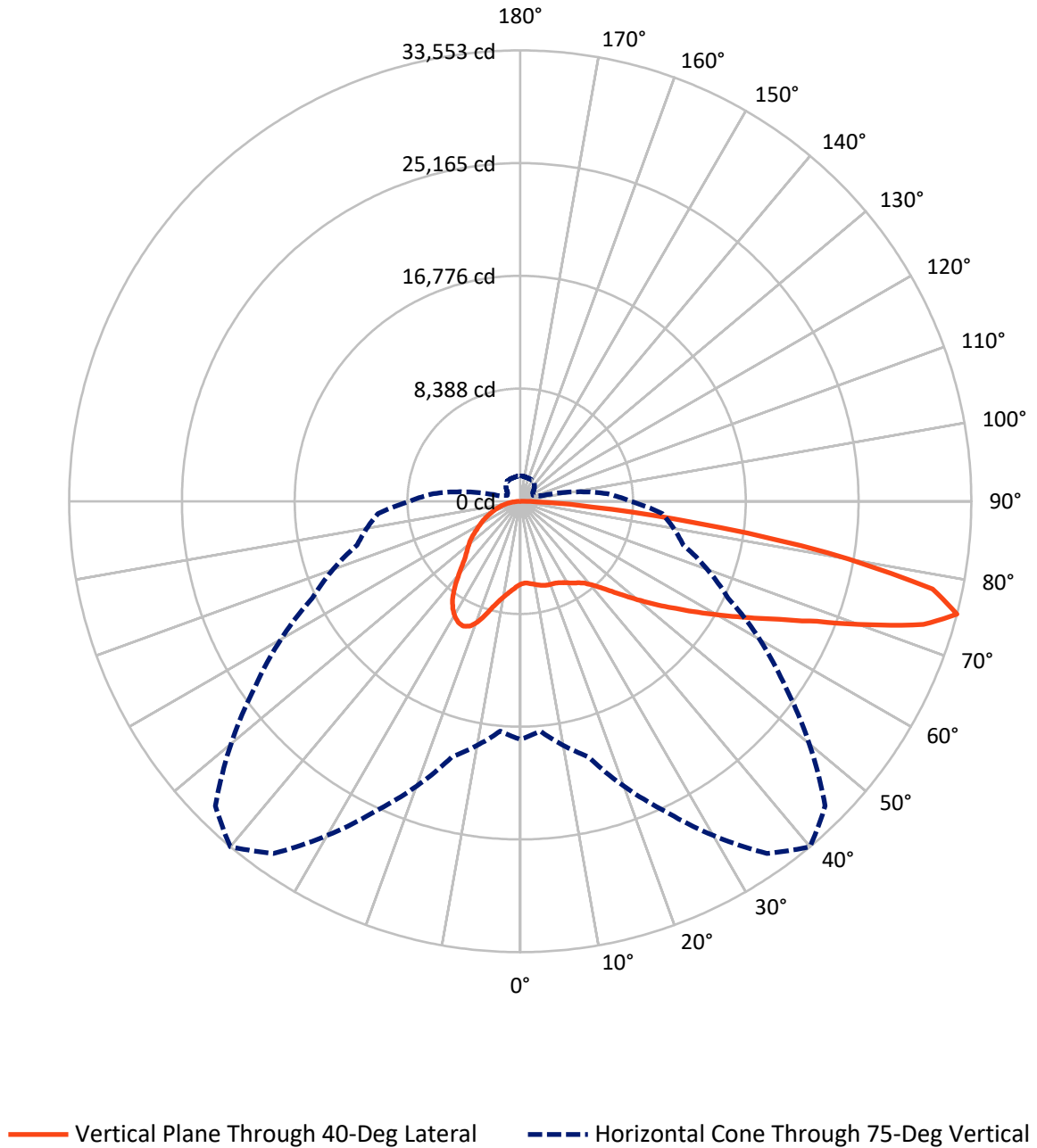
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	16702.5	0.0	16702.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	37205.5	0.0	37205.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	53908.0	0.0	53908.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.3	1.1
10°-20°	2065.9	3.8
20°-30°	3772.2	7.0
30°-40°	5350.1	9.9
40°-50°	7224.2	13.4
50°-60°	9718.5	18.0
60°-70°	12335.0	22.9
70°-80°	11194.8	20.8
80°-90°	1631.8	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°	53908.0	100.0
0°-180°	53908.0	100.0



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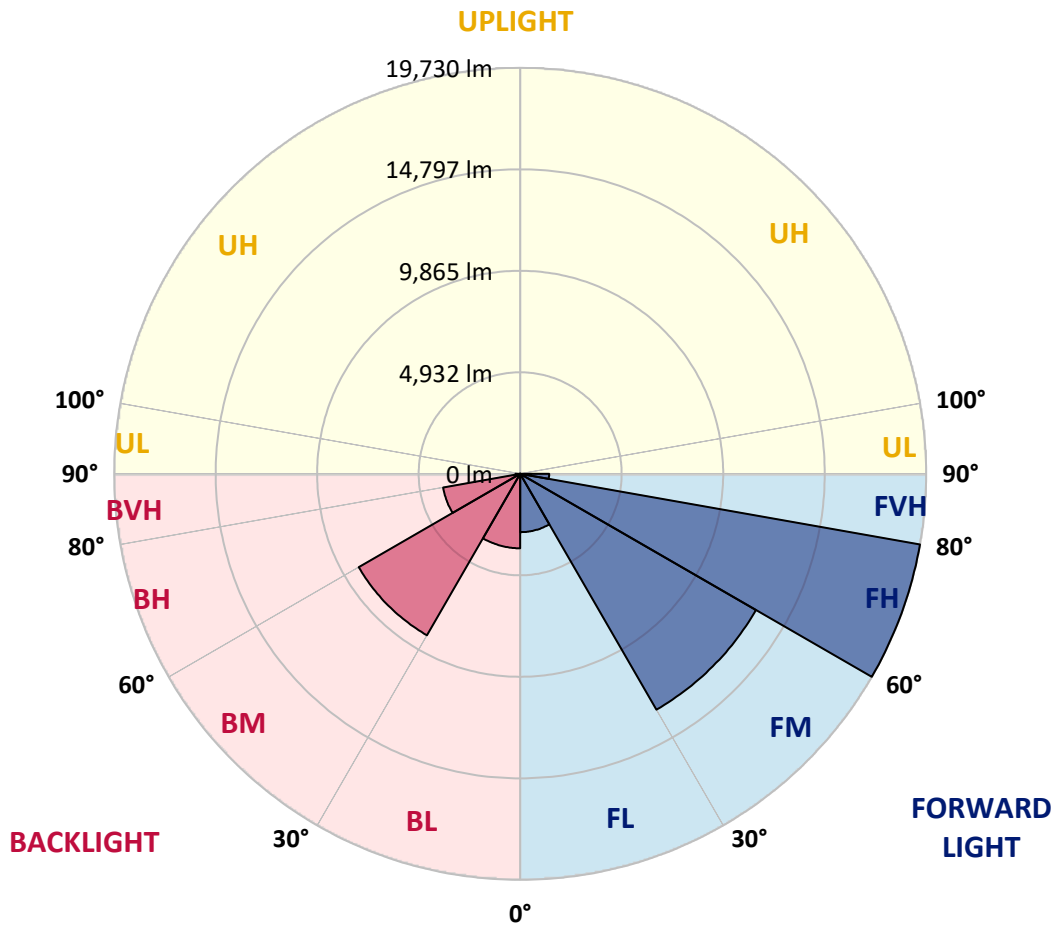
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2835.6	5.3			
FM (30°-60°)	13233.2	24.5			
FH (60°-80°)	19729.5	36.6			G5
FVH (80°-90°)	1407.2	2.6			G5
BL (0°-30°)	3617.9	6.7	B4/5000		
BM (30°-60°)	9059.6	16.8	B5		
BH (60°-80°)	3800.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	224.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5
2.5°	6070.1	6104.4	6095.8	6084.4	6084.4	6087.3	6084.4	6104.4	6124.4	6144.4
5°	6133.0	6167.3	6150.2	6135.9	6124.4	6121.6	6113.0	6110.1	6121.6	6147.3
7.5°	6255.9	6290.3	6264.5	6238.8	6215.9	6204.5	6193.0	6175.9	6167.3	6181.6
10°	6393.2	6427.5	6396.0	6350.3	6313.1	6298.8	6287.4	6270.2	6258.8	6267.4
12.5°	6530.4	6564.7	6521.9	6459.0	6410.3	6401.8	6387.5	6381.8	6378.9	6376.0
15°	6659.1	6687.7	6633.4	6559.0	6507.6	6493.3	6479.0	6487.5	6501.8	6519.0
17.5°	6759.2	6787.8	6707.7	6610.5	6561.9	6556.2	6547.6	6576.2	6616.2	6659.1
20°	6850.7	6879.3	6776.3	6644.8	6587.6	6587.6	6590.5	6650.5	6707.7	6770.6
22.5°	6979.3	7002.2	6876.4	6696.3	6613.3	6619.1	6641.9	6702.0	6773.5	6859.2
25°	7170.9	7188.0	7033.7	6793.5	6699.1	6716.3	6736.3	6764.9	6833.5	6933.6
27.5°	7479.7	7494.0	7291.0	6965.0	6822.1	6850.7	6879.3	6859.2	6890.7	6976.5
30°	7914.3	7922.9	7665.5	7233.8	7030.8	7045.1	7050.8	6967.9	6907.8	6976.5
32.5°	8428.9	8426.1	8120.1	7559.7	7268.1	7253.8	7205.2	7042.2	6902.1	6962.2
35°	9226.7	9195.2	8800.6	8017.2	7536.9	7448.2	7333.9	7125.1	6930.7	6947.9
37.5°	10547.6	10450.4	9904.3	8766.3	7937.2	7711.3	7542.6	7259.5	6993.6	6942.2
40°	12037.3	11914.3	11313.9	9792.8	8537.6	8174.5	7902.8	7451.1	7096.6	6967.9
42.5°	13804.3	13629.8	12983.7	11002.2	9298.1	8772.0	8363.2	7694.1	7248.1	7050.8
45°	15974.4	15742.8	14827.9	12366.1	10256.0	9555.5	9009.4	8063.0	7479.7	7210.9
47.5°	18167.4	18224.6	16923.6	13927.2	11405.4	10521.9	9818.5	8617.7	7817.1	7468.3
50°	20497.7	20537.7	19008.0	15657.0	12709.2	11614.1	10727.7	9238.1	8286.0	7834.2
52.5°	22316.1	22321.8	20900.8	17466.9	14067.3	12815.0	11708.5	9947.2	8829.2	8320.3
55°	23454.1	23439.8	22227.5	19179.6	15628.4	14075.9	12795.0	10753.5	9492.6	8892.1
57.5°	24280.4	24237.5	23142.4	20652.1	17292.5	15565.5	14024.4	11668.4	10276.0	9572.6
60°	24594.9	24569.2	23762.9	21924.4	19042.3	17212.4	15442.6	12692.0	11165.2	10376.1
62.5°	24715.0	24763.6	24371.9	23156.7	20915.1	19036.6	17000.8	13915.8	12165.9	11285.3
65°	25138.2	25226.8	25146.7	24769.3	23030.9	21172.4	19068.1	15371.1	13258.1	12260.3
67.5°	25975.9	26064.5	26098.8	26699.3	25615.6	23834.4	21647.1	17183.8	14536.2	13272.4
70°	25955.9	25930.2	26536.3	28234.7	28852.3	27519.9	25123.9	19414.0	16060.2	14113.0
72.5°	23625.6	23419.8	24852.2	28217.5	31545.6	31368.4	29369.8	22290.4	17375.4	14216.0
75°	17724.2	17175.3	19705.7	25429.8	31994.5	33552.8	32068.9	24074.5	17063.8	12560.5
77.5°	7579.8	7027.9	10010.1	18825.0	28635.0	31365.5	29592.8	21003.7	13621.3	8306.0
80°	1984.3	1981.4	3025.0	8534.7	19474.1	23162.4	20320.4	13564.1	7782.8	2967.9
82.5°	820.6	800.6	1112.2	3319.5	9515.4	12998.0	10607.7	6050.1	2810.6	803.4
85°	305.9	303.1	540.4	1146.5	3356.7	5361.0	3879.9	1546.8	700.5	391.7
87.5°	85.8	82.9	117.2	397.4	817.7	1240.9	663.3	254.5	197.3	154.4
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°
6164.5	0°	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5	6164.5
6175.9	2.5°	6184.5	6198.8	6224.5	6244.5	6270.2	6298.8	6338.9	6364.6	6390.3	6407.5
6190.2	5°	6210.2	6241.7	6307.4	6373.2	6450.4	6521.9	6604.8	6664.8	6713.4	6727.7
6241.7	7.5°	6267.4	6318.8	6430.4	6541.9	6664.8	6782.0	6902.1	7005.1	7088.0	7119.4
6333.1	10°	6367.5	6436.1	6593.3	6750.6	6913.6	7093.7	7248.1	7396.8	7514.0	7562.6
6441.8	12.5°	6493.3	6579.0	6784.9	7002.2	7228.1	7476.8	7677.0	7860.0	8005.8	8071.5
6593.3	15°	6656.2	6767.7	7030.8	7322.4	7654.1	8000.1	8254.5	8457.5	8620.5	8700.6
6750.6	17.5°	6833.5	6982.2	7313.9	7754.2	8228.8	8683.4	8980.8	9129.4	9298.1	9375.3
6896.4	20°	7005.1	7188.0	7662.7	8303.1	8935.0	9418.2	9658.4	9698.4	9709.9	9718.4
7033.7	22.5°	7182.3	7428.2	8100.1	8995.1	9672.7	10007.2	10041.5	9870.0	9629.8	9518.3
7168.0	25°	7376.8	7702.7	8672.0	9758.5	10307.4	10347.5	10084.4	9667.0	9212.4	9003.6
7276.7	27.5°	7565.5	8020.1	9358.2	10487.6	10764.9	10413.2	9847.1	9255.3	8706.3	8486.1
7353.9	30°	7754.2	8383.2	10115.9	11125.2	10973.6	10250.3	9472.6	8812.1	8260.3	8028.7
7422.5	32.5°	7945.7	8806.4	10987.9	11585.5	10936.5	9904.3	9006.5	8314.6	7828.5	7585.5
7482.5	35°	8163.0	9326.7	11814.2	11837.1	10687.7	9395.4	8391.8	7719.9	7296.7	7102.3
7554.0	37.5°	8446.1	9987.2	12543.3	11900.0	10253.1	8649.1	7628.4	7016.5	6667.7	6579.0
7659.8	40°	8797.8	10782.1	13100.9	11799.9	9609.8	7742.7	6793.5	6304.6	6107.3	6127.3
7802.8	42.5°	9255.3	11671.3	13492.6	11542.6	8714.9	6807.8	6061.5	5844.2	5938.6	6018.6
8017.2	45°	9850.0	12594.8	13735.6	11105.2	7702.7	6015.8	5629.8	5681.2	5752.7	5761.3
8363.2	47.5°	10610.5	13529.8	13895.7	10444.7	6670.5	5458.2	5355.3	5366.7	5352.4	5292.4
8880.7	50°	11559.8	14439.0	14038.7	9569.8	5792.8	5109.4	4972.2	4932.1	4734.8	4540.4
9569.8	52.5°	12640.6	15273.9	14098.8	8483.3	5109.4	4817.8	4594.7	4343.1	3974.3	3914.3
10436.1	55°	13841.4	16045.9	13944.4	7148.0	4534.7	4443.2	4105.8	3802.7	3762.7	3711.3
11576.9	57.5°	15276.7	16877.9	13629.8	5658.4	3945.7	4005.7	3676.9	3711.3	3639.8	3559.7
13043.7	60°	16846.5	17738.5	13078.0	4300.2	3336.7	3459.6	3565.4	3562.6	3542.6	3476.8
14590.5	62.5°	18258.9	18304.6	11991.5	3293.8	2802.0	3036.5	3325.3	3322.4	3305.2	3268.1
16206.0	65°	19099.5	18218.9	10178.8	2593.3	2361.7	2687.7	2999.3	3022.2	3025.0	3022.2
17421.2	67.5°	18950.8	17215.3	7691.3	2064.3	1998.6	2333.1	2676.2	2707.7	2730.5	2736.3
17575.5	70°	17269.6	15010.8	5015.1	1646.9	1675.5	2021.5	2370.3	2401.7	2421.7	2444.6
15251.0	72.5°	13461.1	11036.5	2870.6	1332.4	1392.4	1752.7	2067.2	2104.4	2115.8	2158.7
10613.4	75°	8203.1	6490.4	1549.7	1049.3	1143.7	1498.2	1767.0	1809.9	1829.9	1881.4
5212.3	77.5°	3900.0	2810.6	883.5	817.7	920.7	1223.7	1492.5	1541.1	1486.8	1515.4
1438.2	80°	1318.1	1043.6	557.5	623.3	703.4	955.0	1195.1	1243.8	1129.4	1123.7
477.5	82.5°	460.3	423.2	354.5	414.6	454.6	683.4	903.5	966.4	840.6	837.7
214.4	85°	180.1	171.6	197.3	225.9	271.6	420.3	594.7	626.2	517.5	417.4
62.9	87.5°	37.2	40.0	48.6	51.5	82.9	145.8	214.4	263.0	208.7	177.3
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>
6164.5
6396.0
6733.4
7122.3
7565.5
8071.5
8694.9
9372.5
9741.3
9549.8
9035.1
8511.9
8054.4
7616.9
7145.2
6641.9
6195.9
6093.0
5818.5
5338.1
4566.2
3934.3
3719.8
3545.4
3453.9
3253.8
3022.2
2742.0
2456.1
2175.9
<i>1887.1</i>
1492.5
1112.2
797.7
411.7
163.0
0.0

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