

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: P956031

Luminaire Tested: **GALN-SB8D-760-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956031
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-SB8D-760-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85082 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

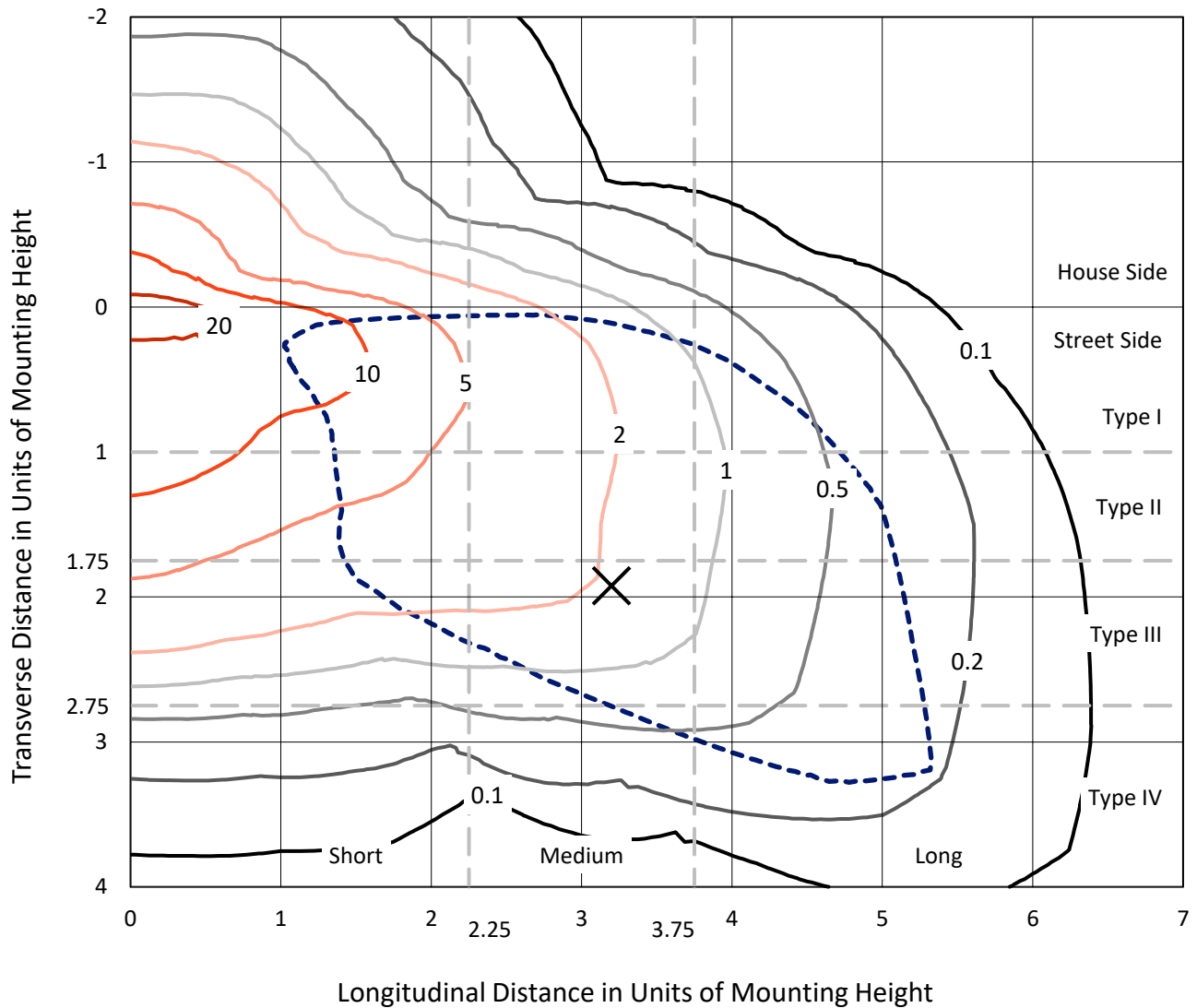
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

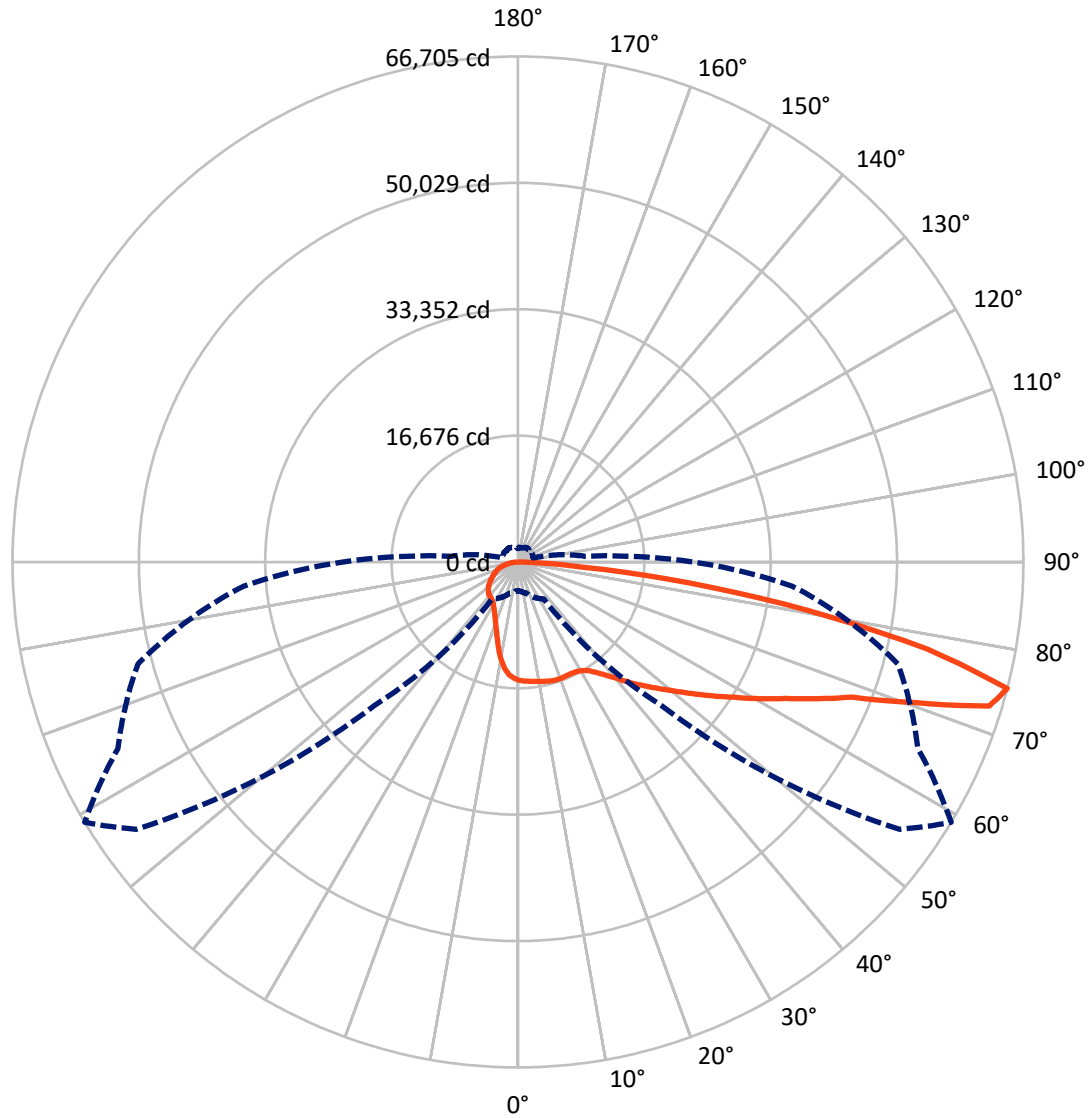
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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	15957.7	0.0	15957.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	69124.3	0.0	69124.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	85082.0	0.0	85082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1400.3	1.6
10°-20°	3579.2	4.2
20°-30°	5436.5	6.4
30°-40°	8081.3	9.5
40°-50°	12018.3	14.1
50°-60°	16313.3	19.2
60°-70°	19915.9	23.4
70°-80°	15629.7	18.4
80°-90°	2707.5	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°	85082.0	100.0
0°-180°	85082.0	100.0

Coefficient of Utilization



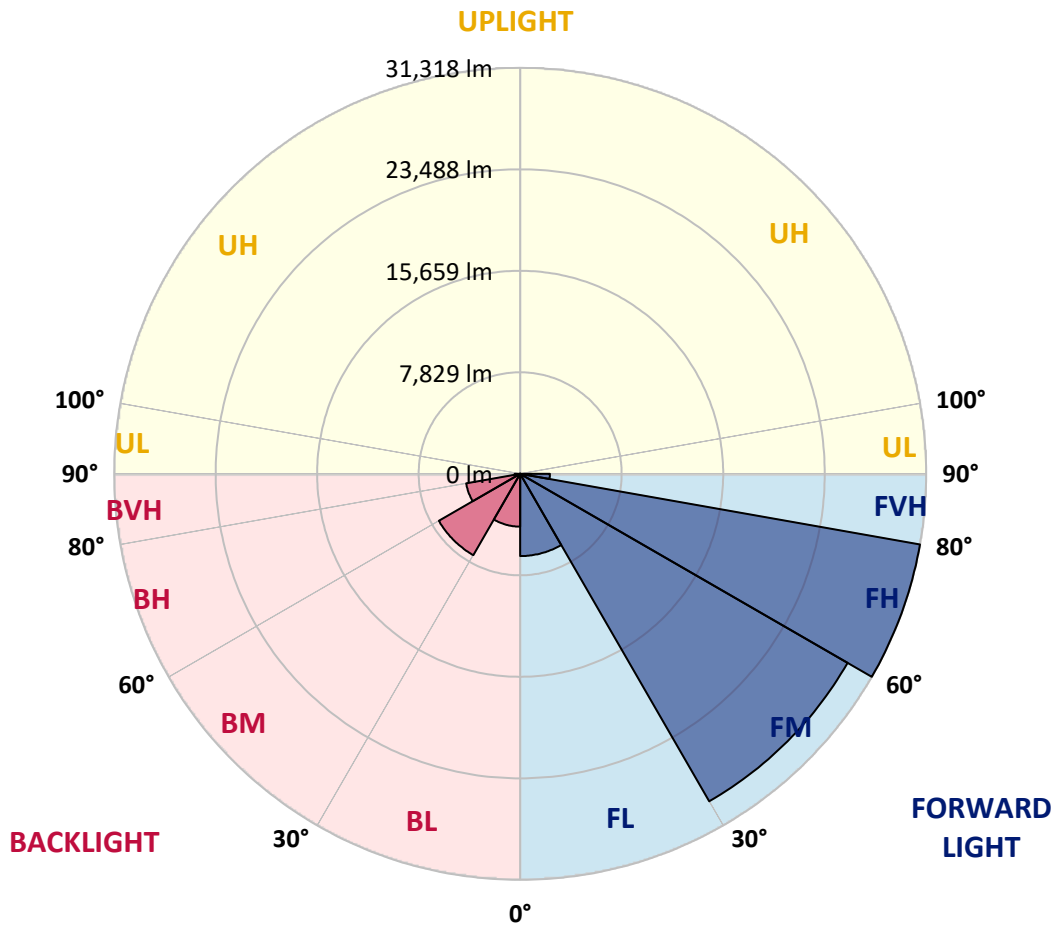
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6343.8	7.5			
FM (30°-60°)	29169.6	34.3			
FH (60°-80°)	31317.8	36.8			G5
FVH (80°-90°)	2293.0	2.7			G5
BL (0°-30°)	4072.2	4.8	B4/5000		
BM (30°-60°)	7243.2	8.5	B4/8500		
BH (60°-80°)	4227.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	414.4	0.5			G3/500
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°	45°	55°	59°	65°	75°
0°	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6
2.5°	15749.3	15694.4	15749.3	15726.5	15717.3	15699.0	15703.6	15735.6	15717.3	15740.2
5°	15644.1	15612.0	15667.0	15653.2	15712.7	15721.9	15781.4	15818.0	15840.9	15845.5
7.5°	15470.1	15438.1	15515.9	15580.0	15708.2	15744.8	15868.3	15927.8	15959.9	16014.8
10°	14834.0	14820.2	15012.5	15255.0	15557.1	15744.8	15932.4	16033.1	16083.5	16229.9
12.5°	13708.0	13726.3	13978.1	14444.9	15049.1	15653.2	16005.7	16152.1	16229.9	16413.0
15°	12632.4	12627.9	12902.5	13401.4	14248.1	15250.5	16042.3	16294.0	16426.7	16696.8
17.5°	12010.0	11991.7	12183.9	12563.8	13351.0	14632.6	15950.7	16371.8	16655.6	16994.3
20°	11895.5	11858.9	11959.6	12147.3	12705.7	13955.2	15712.7	16371.8	16838.7	17278.1
22.5°	12312.0	12252.5	12211.3	12188.5	12435.6	13396.8	15442.7	16316.9	17108.7	17685.4
25°	13149.6	13058.1	12847.5	12641.6	12568.4	13145.0	15204.7	16303.2	17511.5	18234.6
27.5°	14504.4	14390.0	13964.3	13470.0	13026.0	13273.2	15099.4	16385.5	17955.4	18815.9
30°	16184.2	16060.6	15525.1	14765.3	13968.9	13749.2	15232.1	16628.1	18523.0	19589.4
32.5°	17690.0	17552.7	17095.0	16321.5	15245.9	14573.1	15653.2	17090.4	19415.5	20665.0
35°	19026.5	18866.3	18454.3	17740.3	16811.2	15731.0	16413.0	17909.7	20683.3	22413.4
37.5°	20335.5	20147.8	19699.3	18944.1	18294.1	17273.5	17461.1	18962.4	22367.6	24537.1
40°	21800.1	21530.1	20985.4	20239.3	19607.7	19081.4	18838.8	20253.1	24079.4	26908.0
42.5°	23219.0	22962.6	22312.7	21676.5	20884.7	20733.7	20436.2	21763.5	25951.4	29512.3
45°	24747.7	24441.0	23653.8	22848.2	22349.3	21832.1	21983.2	23273.9	27786.8	32166.9
47.5°	26180.3	25837.0	24907.9	24010.8	23736.2	22756.7	23402.0	24935.3	29695.4	34858.2
50°	26953.8	26615.1	25841.6	25031.4	24816.3	23896.3	24939.9	26761.5	31695.5	37540.3
52.5°	27599.1	27233.0	26221.4	25772.9	25708.8	25136.7	26834.8	28848.6	33695.6	39911.2
55°	28285.7	27878.3	26587.6	26184.8	26477.8	26528.1	29082.0	31214.9	35810.2	42222.5
57.5°	29077.5	28560.3	26940.0	26532.7	27228.4	28157.5	31663.5	33668.2	37888.1	44364.5
60°	29823.5	29301.7	27617.4	27086.5	28038.5	30047.8	34624.8	36638.6	40240.7	46273.1
62.5°	29970.0	29539.7	28157.5	28152.9	29137.0	32253.9	38130.7	39636.5	42295.8	48158.8
65°	27434.3	27164.3	26345.0	28111.7	30711.4	35430.3	42034.9	43472.0	44909.2	49806.6
67.5°	20880.1	20916.7	20857.2	24267.1	29439.1	39993.5	47687.4	47577.6	48136.0	51655.6
70°	9547.6	9762.7	11163.2	16751.7	23585.1	40519.9	57033.6	55610.1	52186.6	54049.4
72.5°	5158.2	5323.0	5895.1	8115.0	14179.4	36025.3	64018.0	65029.5	57573.7	55660.5
75°	3785.2	3876.7	4274.9	5158.2	5954.6	26775.3	61514.4	66704.7	58246.5	51902.8
77.5°	2833.1	2874.3	3199.3	4087.2	3048.3	14115.4	49152.0	55244.0	49861.5	42643.6
80°	2055.1	2100.8	2343.4	3066.6	2137.4	5162.8	33750.6	38776.1	34148.8	27182.6
82.5°	1418.9	1437.2	1542.4	2087.1	1492.1	2004.7	19150.0	22738.4	19063.1	9538.4
85°	855.9	878.8	924.5	1217.5	846.7	952.0	8266.0	8549.8	5698.3	2279.3
87.5°	352.4	375.3	411.9	512.6	334.1	265.5	1363.9	1711.8	1066.4	668.2
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°
15616.6	0°	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6	15616.6
15662.4	2.5°	15639.5	15607.5	15520.5	15401.5	15291.6	15154.3	15094.8	15044.5	14998.7	14911.8
15786.0	5°	15735.6	15648.7	15415.2	15113.1	14769.9	14394.6	14028.4	13776.7	13561.6	13401.4
15927.8	7.5°	15882.1	15717.3	15291.6	14673.8	13886.5	13081.0	12353.2	11836.0	11447.0	11305.1
16129.2	10°	16033.1	15836.3	15094.8	14005.5	12646.2	11405.8	10440.1	9909.1	9597.9	9497.2
16367.2	12.5°	16211.6	15923.3	14788.2	13076.4	11259.3	9900.0	9057.8	8746.6	8586.4	8531.5
16660.2	15°	16472.5	15996.5	14325.9	11913.8	9936.6	8801.5	8256.8	8041.7	7959.3	7954.8
16962.2	17.5°	16669.3	16010.2	13607.3	10668.9	8920.5	8137.8	7689.3	7606.9	7661.8	7744.2
17259.7	20°	16889.0	15886.7	12664.5	9533.8	8206.5	7556.6	7368.9	7423.8	7556.6	7675.6
17653.4	22.5°	17044.6	15662.4	11524.8	8650.5	7588.6	7222.5	7213.3	7327.7	7401.0	7460.5
18115.6	25°	17181.9	15282.5	10316.5	7909.0	7080.6	7021.1	7121.8	7085.1	7034.8	7085.1
18577.9	27.5°	17282.6	14682.9	9236.3	7259.1	6723.6	6883.8	6824.3	6741.9	6737.3	6764.8
19122.6	30°	17250.6	13881.9	8348.4	6641.2	6471.8	6627.4	6485.6	6471.8	6458.1	6471.8
19941.8	32.5°	17250.6	12971.1	7666.4	6215.5	6311.6	6252.1	6238.4	6206.4	6151.4	6146.9
21054.0	35°	17346.7	12060.3	7080.6	5986.7	6178.9	6037.0	6046.2	5968.4	5853.9	5799.0
22527.8	37.5°	17543.5	11328.0	6499.3	5876.8	5945.5	5940.9	5904.3	5771.6	5570.2	5396.2
24367.8	40°	18019.5	11112.9	6101.1	5826.5	5835.6	5890.6	5794.4	5538.1	5080.4	4796.7
26235.2	42.5°	18765.6	11474.5	6014.1	5702.9	5762.4	5817.3	5629.7	5034.7	4709.7	4540.4
28194.1	45°	19713.0	12106.1	6201.8	5524.4	5588.5	5684.6	5126.2	4842.4	4696.0	4700.5
30134.8	47.5°	20912.2	12769.7	6549.6	5368.8	5336.7	5391.7	4792.1	4618.2	4416.8	4467.1
31997.6	50°	22299.0	13442.6	6879.2	5158.2	5057.5	4879.0	4577.0	4412.2	4155.9	4036.9
33796.3	52.5°	23800.2	14092.5	7011.9	4901.9	4755.5	4549.5	4430.5	4229.1	3917.9	3721.1
35494.4	55°	25223.7	14682.9	6865.5	4595.3	4453.4	4293.2	4274.9	4151.3	3817.2	3542.6
37004.8	57.5°	26569.3	15177.2	6499.3	4284.0	4146.7	4050.6	4174.2	4114.7	3693.6	3341.2
38432.8	60°	27709.0	15515.9	5968.4	3968.2	3872.1	3821.8	4009.4	3991.1	3519.7	3126.1
39714.3	62.5°	28615.2	15648.7	5382.5	3666.2	3643.3	3551.7	3780.6	3780.6	3300.0	2915.5
40840.3	65°	29324.6	15520.5	4787.5	3368.6	3414.4	3277.1	3501.4	3473.9	3066.6	2727.9
42135.6	67.5°	29951.7	15099.4	4128.4	3075.7	3181.0	3007.1	3208.5	3144.4	2810.3	2540.2
43256.9	70°	30230.9	14119.9	3377.8	2782.8	2911.0	2741.6	2915.5	2796.5	2521.9	2338.8
42025.7	72.5°	27988.2	11735.3	2659.2	2476.1	2586.0	2448.7	2599.7	2462.4	2210.7	2128.3
36290.8	75°	23154.9	8806.1	2045.9	2142.0	2224.4	2119.1	2219.8	2119.1	1890.3	1949.8
26807.3	77.5°	16815.8	5945.5	1565.3	1789.6	1826.2	1771.3	1858.2	1743.8	1537.9	1524.1
13360.2	80°	8362.1	3483.1	1226.6	1414.3	1400.6	1363.9	1464.6	1409.7	1235.8	1309.0
3606.7	82.5°	2421.2	1492.1	892.5	993.2	965.7	974.9	1048.1	1075.6	1611.1	1597.4
1121.4	85°	759.8	585.9	535.5	553.8	526.4	540.1	617.9	1226.6	1135.1	663.7
347.8	87.5°	196.8	201.4	132.7	141.9	146.5	173.9	196.8	746.0	357.0	233.4
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>
15616.6
14870.6
13268.6
11058.0
9341.6
8545.2
7973.1
7776.3
7716.8
7492.5
7117.2
6810.5
6522.2
6206.4
5853.9
5455.7
4833.3
4540.4
4723.4
4595.3
4068.9
3716.5
3542.6
3322.9
3112.3
2901.8
2709.6
2521.9
2302.2
2059.6
1780.4
1455.5
1295.3
1634.0
718.6
247.2
0.0

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