

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: P957417

Luminaire Tested: **GALN-SB9D-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957417
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-SB9D-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 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: 95837 lumens
Efficiency: N/A
Efficacy: 145.6 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

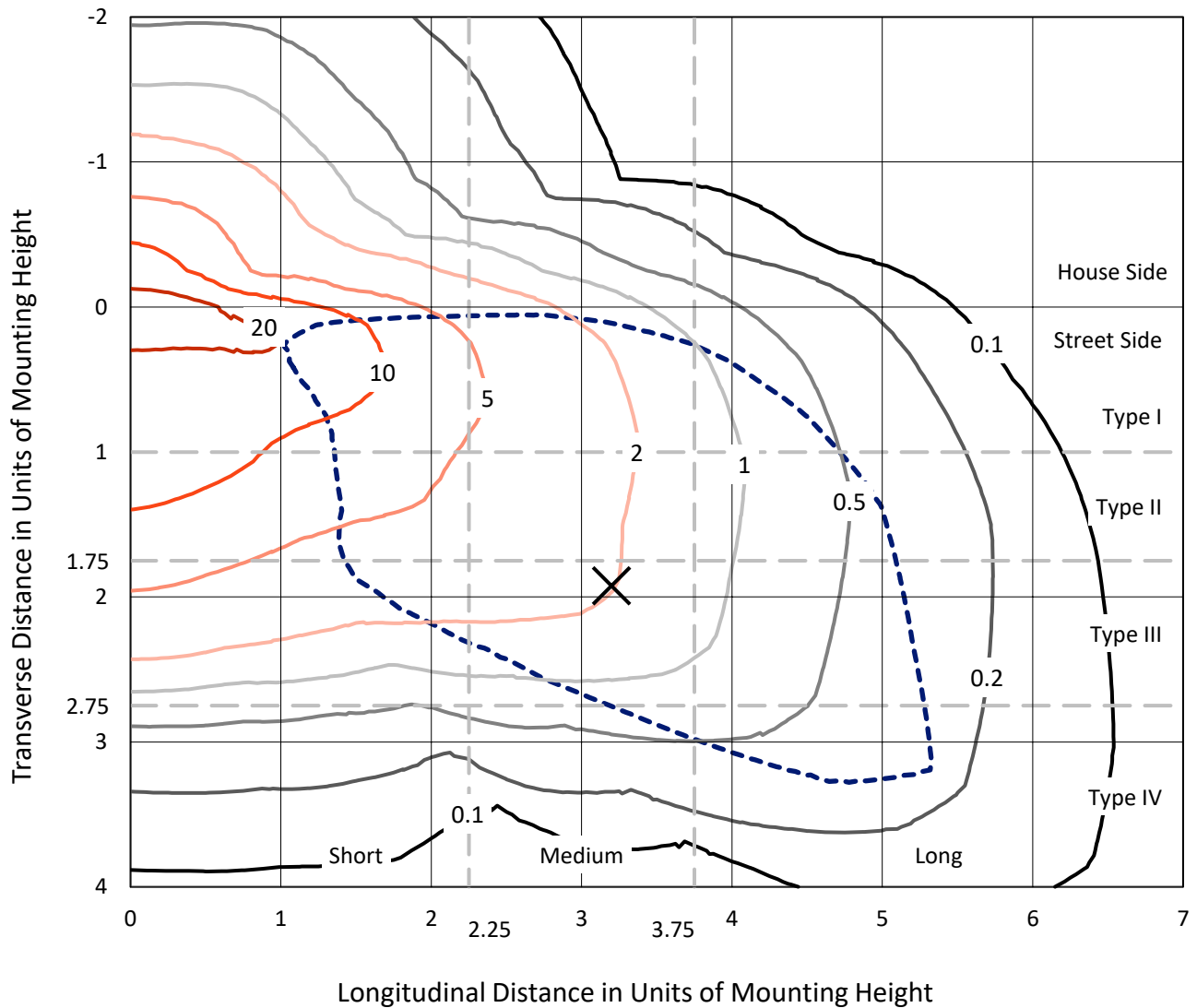
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

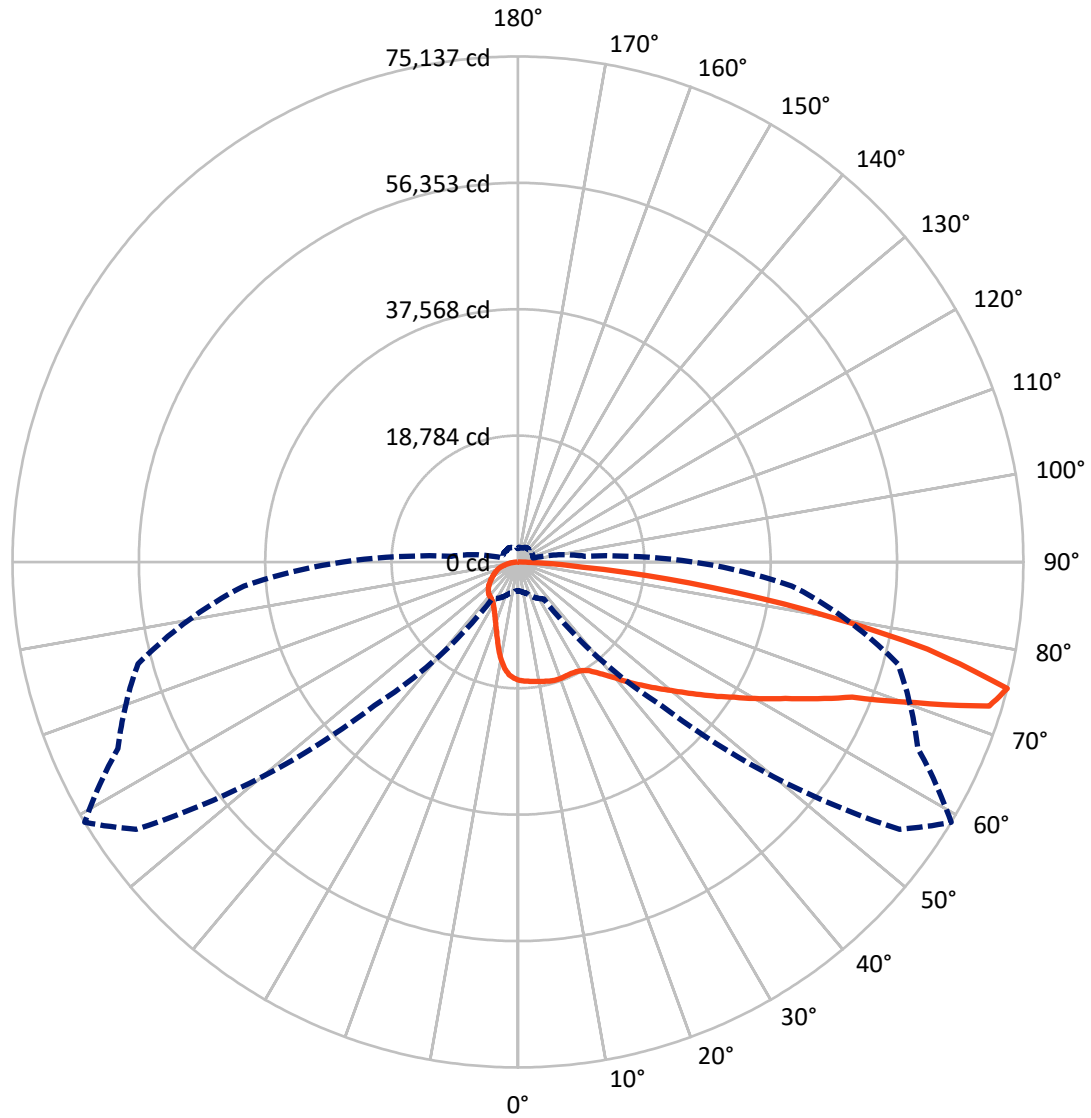
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 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	17974.9	0.0	17974.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	77862.1	0.0	77862.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	95837.0	0.0	95837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1577.3	1.6
10°-20°	4031.6	4.2
20°-30°	6123.8	6.4
30°-40°	9102.8	9.5
40°-50°	13537.5	14.1
50°-60°	18375.5	19.2
60°-70°	22433.4	23.4
70°-80°	17605.5	18.4
80°-90°	3049.7	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°	95837.0	100.0
0°-180°	95837.0	100.0

Coefficient of Utilization



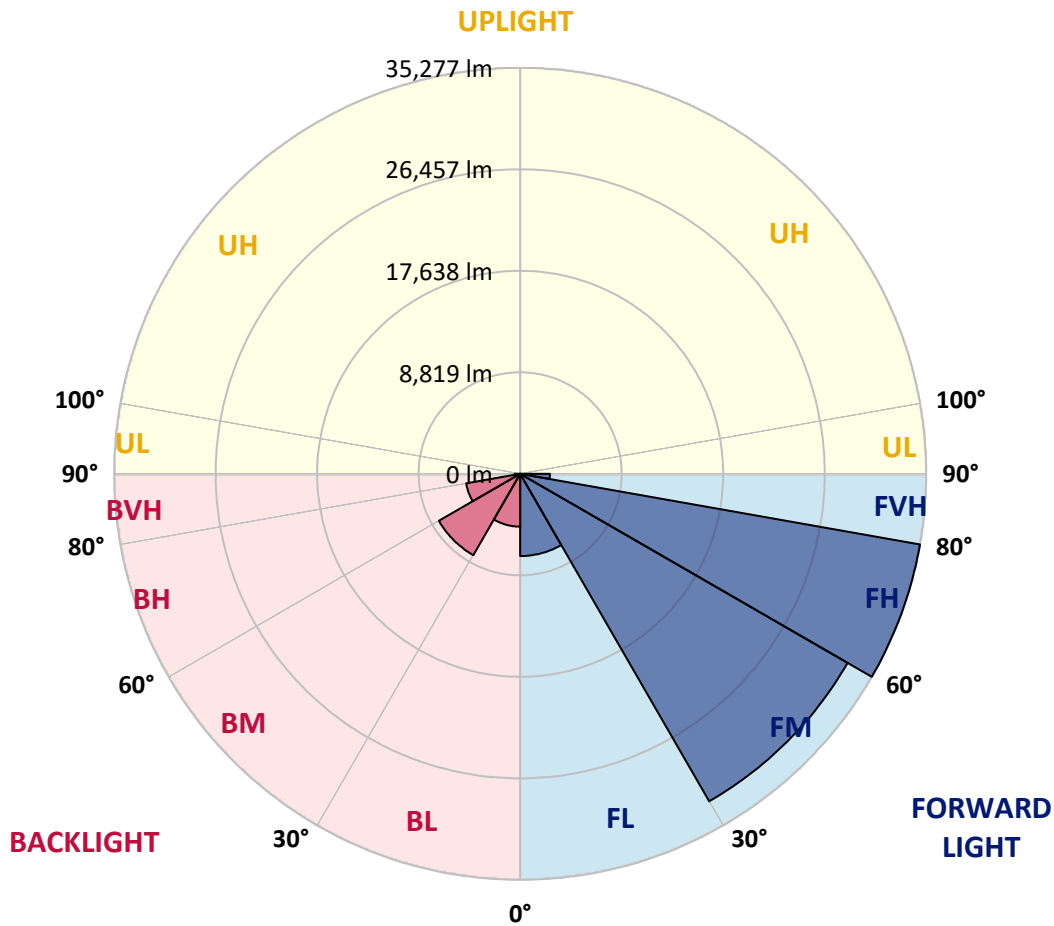
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7145.7	7.5			
FM (30°-60°)	32856.9	34.3			
FH (60°-80°)	35276.7	36.8			G5
FVH (80°-90°)	2582.9	2.7			G5
BL (0°-30°)	4587.0	4.8	B4/5000		
BM (30°-60°)	8158.8	8.5	B4/8500		
BH (60°-80°)	4762.2	5.0	B4/5000		G4/5000
BVH (80°-90°)	466.8	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°	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7
2.5°	17740.2	17678.3	17740.2	17714.4	17704.1	17683.5	17688.6	17724.7	17704.1	17729.9
5°	17621.6	17585.5	17647.4	17631.9	17698.9	17709.2	17776.3	17817.5	17843.3	17848.4
7.5°	17425.7	17389.6	17477.2	17549.4	17693.8	17735.0	17874.2	17941.2	17977.3	18039.2
10°	16709.1	16693.6	16910.1	17183.4	17523.6	17735.0	17946.4	18059.8	18116.5	18281.5
12.5°	15440.8	15461.4	15745.0	16270.9	16951.4	17631.9	18028.9	18193.9	18281.5	18487.7
15°	14229.3	14224.1	14533.4	15095.4	16049.2	17178.2	18070.1	18353.7	18503.2	18807.4
17.5°	13528.1	13507.5	13724.0	14151.9	15038.7	16482.2	17967.0	18441.3	18761.0	19142.5
20°	13399.2	13358.0	13471.4	13682.8	14311.8	15719.2	17698.9	18441.3	18967.2	19462.1
22.5°	13868.4	13801.4	13755.0	13729.2	14007.6	15090.2	17394.8	18379.5	19271.4	19921.0
25°	14811.8	14708.7	14471.6	14239.6	14157.1	14806.7	17126.7	18364.0	19725.1	20539.6
27.5°	16337.9	16209.0	15729.5	15172.7	14672.6	14951.0	17008.1	18456.8	20225.1	21194.4
30°	18230.0	18090.8	17487.6	16631.7	15734.7	15487.2	17157.6	18730.0	20864.4	22065.7
32.5°	19926.1	19771.5	19255.9	18384.6	17173.1	16415.2	17631.9	19250.7	21869.8	23277.2
35°	21431.5	21251.1	20787.1	19982.8	18936.3	17719.6	18487.7	20173.6	23297.8	25246.6
37.5°	22906.0	22694.6	22189.4	21338.7	20606.7	19457.0	19668.3	21359.4	25195.1	27638.8
40°	24555.8	24251.6	23638.1	22797.8	22086.3	21493.4	21220.2	22813.2	27123.2	30309.4
42.5°	26154.0	25865.3	25133.2	24416.6	23524.7	23354.6	23019.4	24514.5	29231.9	33242.9
45°	27875.9	27530.5	26643.8	25736.4	25174.5	24591.9	24762.0	26215.9	31299.2	36233.1
47.5°	29489.6	29103.0	28056.4	27045.9	26736.6	25633.3	26360.2	28087.3	33449.1	39264.5
50°	30360.9	29979.4	29108.1	28195.6	27953.3	26917.0	28092.5	30144.4	35702.0	42285.7
52.5°	31087.8	30675.4	29536.0	29030.8	28958.6	28314.2	30226.9	32495.3	37955.0	44956.2
55°	31861.2	31402.3	29948.5	29494.8	29824.7	29881.5	32758.2	35160.7	40336.9	47559.8
57.5°	32753.1	32170.5	30345.4	29886.6	30670.2	31716.8	35666.0	37924.1	42677.5	49972.6
60°	33593.4	33005.7	31108.5	30510.4	31582.8	33846.1	39001.6	41270.0	45327.4	52122.4
62.5°	33758.4	33273.8	31716.8	31711.7	32820.1	36331.0	42950.7	44646.9	47642.3	54246.5
65°	30902.2	30598.1	29675.2	31665.3	34593.6	39909.0	47348.4	48967.2	50586.1	56102.5
67.5°	23519.5	23560.8	23493.7	27334.6	33160.4	45049.0	53715.5	53591.7	54220.7	58185.3
70°	10754.4	10996.7	12574.3	18869.2	26566.4	45641.9	64243.1	62639.7	58783.4	60881.7
72.5°	5810.3	5995.9	6640.3	9140.8	15971.8	40579.2	72110.4	73249.8	64851.4	62696.4
75°	4263.6	4366.7	4815.3	5810.3	6707.3	30159.8	69290.3	75136.7	65609.3	58463.7
77.5°	3191.3	3237.7	3603.7	4603.9	3433.6	15899.7	55365.2	62227.2	56164.3	48034.1
80°	2314.8	2366.4	2639.6	3454.2	2407.6	5815.4	38016.9	43677.6	38465.4	30618.7
82.5°	1598.2	1618.8	1737.4	2350.9	1680.7	2258.1	21570.7	25612.7	21472.8	10744.1
85°	964.1	989.9	1041.4	1371.4	953.8	1072.4	9310.9	9630.5	6418.6	2567.5
87.5°	397.0	422.8	464.0	577.4	376.4	299.0	1536.3	1928.2	1201.2	752.7
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°
17590.7	0°	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7	17590.7
17642.2	2.5°	17616.4	17580.4	17482.4	17348.4	17224.6	17070.0	17002.9	16946.2	16894.7	16796.7
17781.4	5°	17724.7	17626.8	17363.8	17023.6	16636.9	16214.1	15801.7	15518.1	15275.8	15095.4
17941.2	7.5°	17889.7	17704.1	17224.6	16528.6	15641.9	14734.5	13914.8	13332.2	12894.0	12734.2
18168.1	10°	18059.8	17838.1	17002.9	15775.9	14244.7	12847.6	11759.8	11161.7	10811.1	10697.7
18436.2	12.5°	18260.9	17936.1	16657.5	14729.3	12682.6	11151.4	10202.8	9852.2	9671.8	9609.9
18766.1	15°	18554.8	18018.6	16136.8	13419.8	11192.7	9914.1	9300.6	9058.3	8965.5	8960.3
19106.4	17.5°	18776.4	18034.0	15327.4	12017.5	10048.1	9166.5	8661.3	8568.5	8630.4	8723.2
19441.5	20°	19023.9	17894.8	14265.4	10739.0	9243.9	8511.8	8300.4	8362.3	8511.8	8645.8
19884.9	22.5°	19199.2	17642.2	12981.6	9744.0	8547.9	8135.4	8125.1	8254.0	8336.5	8403.5
20405.6	25°	19353.9	17214.3	11620.6	8908.8	7975.6	7908.6	8022.0	7980.8	7924.0	7980.8
20926.3	27.5°	19467.3	16538.9	10403.9	8176.7	7573.5	7753.9	7686.9	7594.1	7588.9	7619.9
21539.8	30°	19431.2	15636.7	9403.7	7480.7	7289.9	7465.2	7305.4	7289.9	7274.5	7289.9
22462.6	32.5°	19431.2	14610.8	8635.5	7001.2	7109.5	7042.5	7027.0	6990.9	6929.0	6923.9
23715.4	35°	19539.5	13584.8	7975.6	6743.4	6960.0	6800.1	6810.5	6722.8	6593.9	6532.1
25375.5	37.5°	19761.1	12759.9	7320.9	6619.7	6697.0	6691.9	6650.6	6501.1	6274.3	6078.4
27448.0	40°	20297.3	12517.6	6872.3	6563.0	6573.3	6635.2	6526.9	6238.2	5722.6	5403.0
29551.5	42.5°	21137.7	12924.9	6774.4	6423.8	6490.8	6552.7	6341.3	5671.1	5305.0	5114.3
31758.1	45°	22204.9	13636.4	6985.7	6222.7	6294.9	6403.2	5774.2	5454.6	5289.6	5294.7
33944.0	47.5°	23555.6	14383.9	7377.6	6047.4	6011.3	6073.2	5397.8	5201.9	4975.1	5031.8
36042.3	50°	25117.7	15141.8	7748.8	5810.3	5696.9	5495.8	5155.5	4969.9	4681.2	4547.2
38068.4	52.5°	26808.8	15873.9	7898.3	5521.6	5356.6	5124.6	4990.6	4763.7	4413.1	4191.4
39981.1	55°	28412.1	16538.9	7733.3	5176.2	5016.3	4835.9	4815.3	4676.1	4299.7	3990.4
41682.5	57.5°	29927.9	17095.7	7320.9	4825.6	4670.9	4562.6	4701.8	4634.8	4160.5	3763.5
43291.0	60°	31211.6	17477.2	6722.8	4469.8	4361.6	4304.9	4516.2	4495.6	3964.6	3521.2
44734.5	62.5°	32232.4	17626.8	6062.9	4129.6	4103.8	4000.7	4258.5	4258.5	3717.1	3284.1
46002.8	65°	33031.5	17482.4	5392.7	3794.5	3846.0	3691.4	3944.0	3913.0	3454.2	3072.7
47461.8	67.5°	33737.8	17008.1	4650.3	3464.5	3583.1	3387.2	3614.0	3541.8	3165.5	2861.3
48724.9	70°	34052.3	15904.8	3804.8	3134.6	3278.9	3088.2	3284.1	3150.0	2840.7	2634.5
47338.1	72.5°	31526.1	13218.8	2995.4	2789.1	2912.9	2758.2	2928.3	2773.7	2490.1	2397.3
40878.2	75°	26081.8	9919.2	2304.5	2412.8	2505.6	2387.0	2500.4	2387.0	2129.2	2196.3
30195.9	77.5°	18941.4	6697.0	1763.2	2015.8	2057.1	1995.2	2093.1	1964.3	1732.3	1716.8
15049.0	80°	9419.2	3923.4	1381.7	1593.1	1577.6	1536.3	1649.8	1587.9	1392.0	1474.5
4062.6	82.5°	2727.3	1680.7	1005.3	1118.7	1087.8	1098.1	1180.6	1211.5	1814.7	1799.3
1263.1	85°	855.8	659.9	603.2	623.8	592.9	608.4	696.0	1381.7	1278.6	747.6
391.8	87.5°	221.7	226.8	149.5	159.8	165.0	195.9	221.7	840.4	402.1	262.9
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>
17590.7
16750.3
14945.9
12455.8
10522.4
9625.4
8980.9
8759.2
8692.2
8439.6
8016.8
7671.4
7346.6
6990.9
6593.9
6145.4
5444.2
5114.3
5320.5
5176.2
4583.3
4186.3
3990.4
3742.9
3505.8
3268.6
3052.1
2840.7
2593.2
2320.0
2005.5
1639.5
1459.0
1840.5
809.4
278.4
0.0

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