

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: P955684

Luminaire Tested: **GALN-SB8C-760-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-760-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65773 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

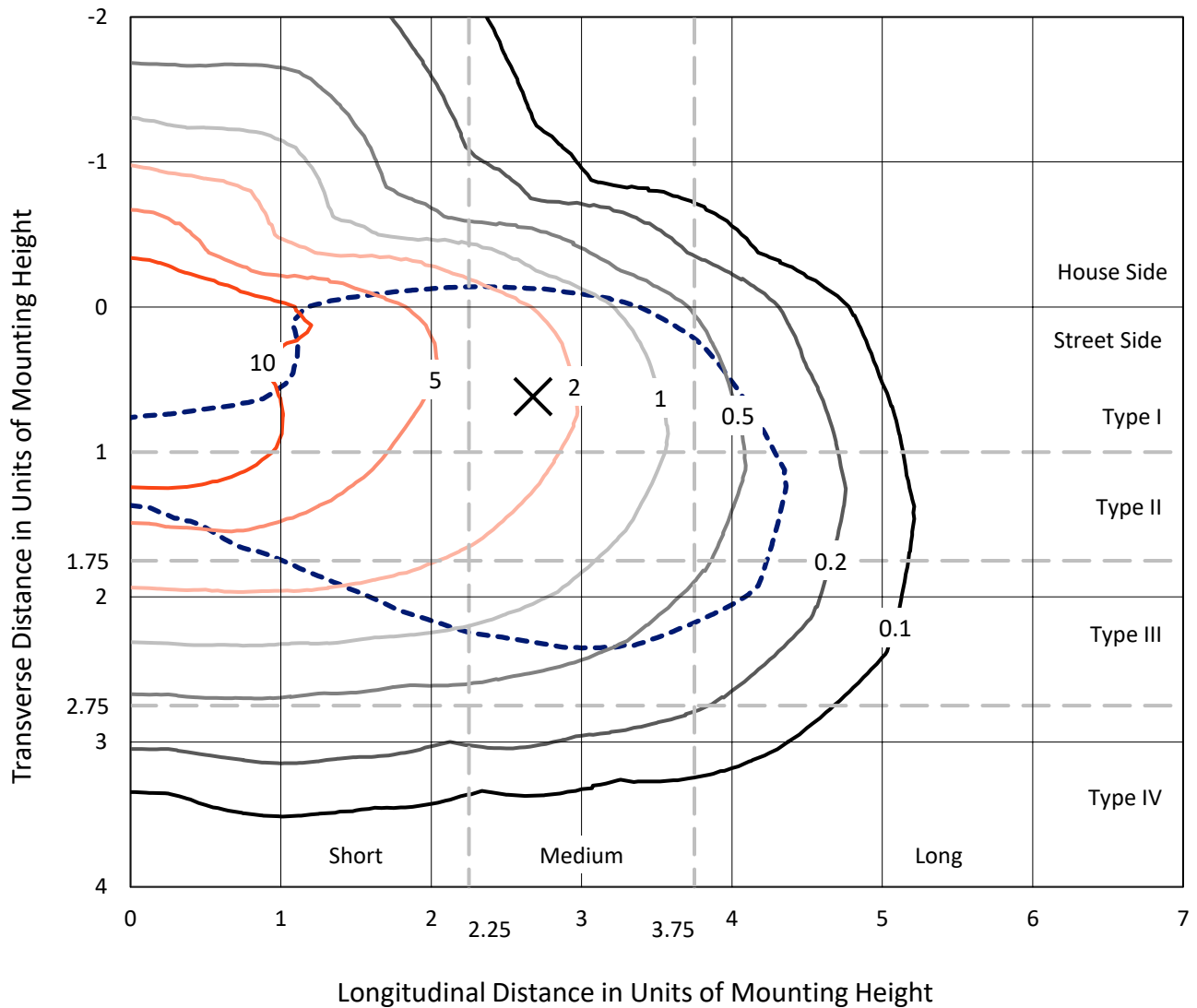
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

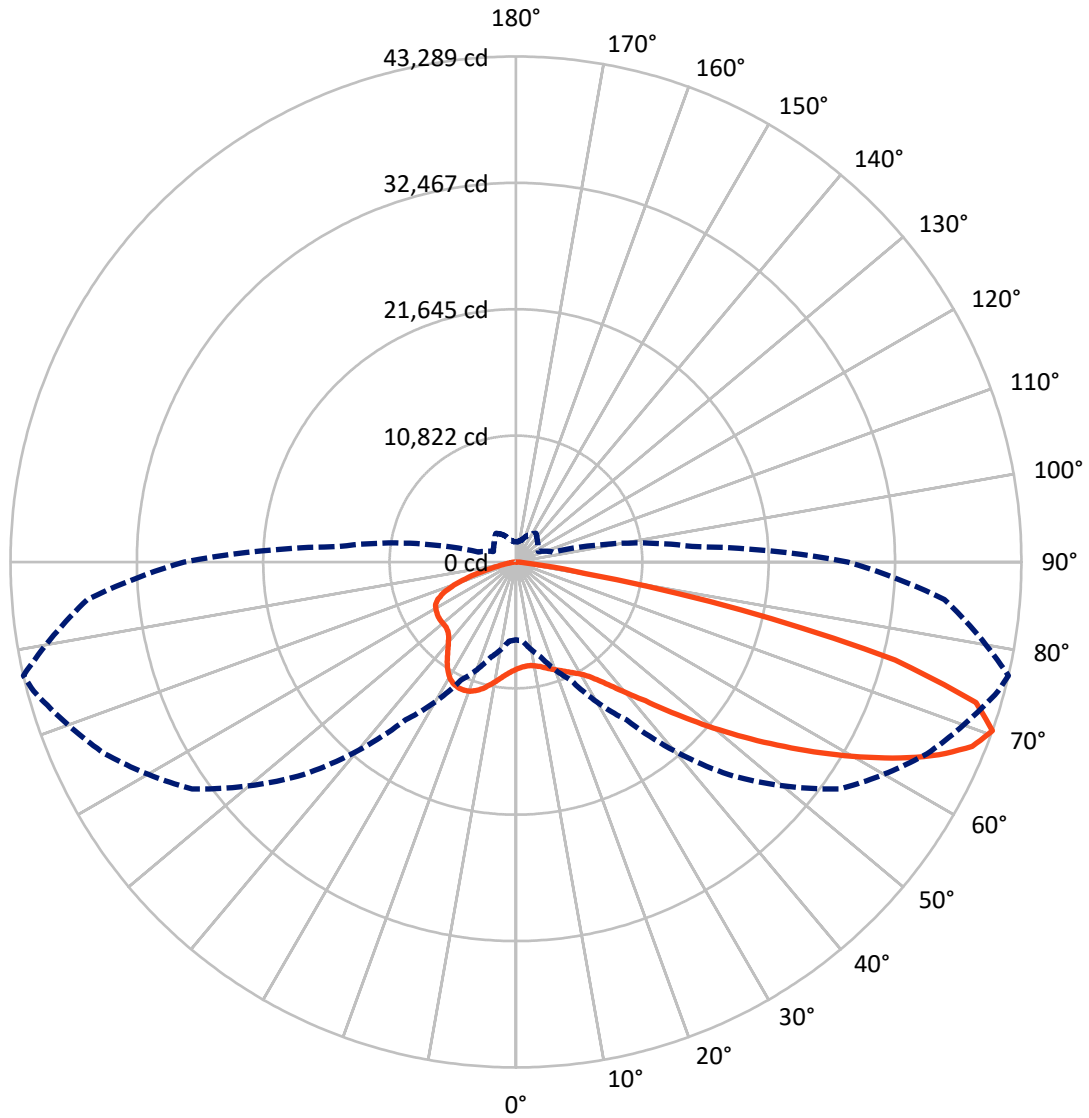
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14403.3	0.0	14403.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	51369.7	0.0	51369.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	65773.0	0.0	65773.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.1	1.3
10°-20°	2525.7	3.8
20°-30°	4319.4	6.6
30°-40°	6946.0	10.6
40°-50°	10844.5	16.5
50°-60°	14485.6	22.0
60°-70°	15439.4	23.5
70°-80°	9504.4	14.5
80°-90°	832.9	1.3
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°	65773.0	100.0
0°-180°	65773.0	100.0



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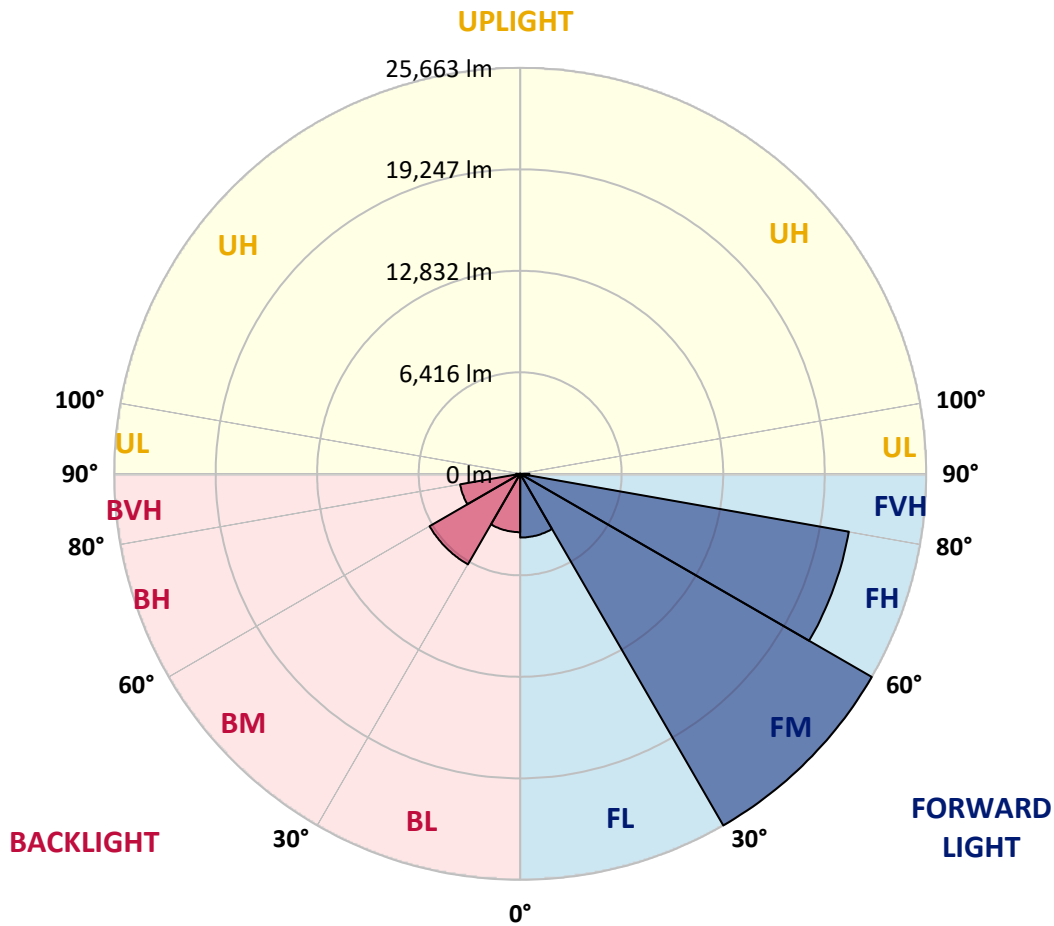
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4029.7	6.1			
FM (30°-60°)	25663.2	39.0			
FH (60°-80°)	21094.5	32.1			G5
FVH (80°-90°)	582.4	0.9			G4/750
BL (0°-30°)	3690.6	5.6	B4/5000		
BM (30°-60°)	6612.9	10.1	B4/8500		
BH (60°-80°)	3849.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	250.5	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9
2.5°	8458.4	8455.1	8498.9	8512.3	8593.2	8650.4	8758.2	8872.8	9021.0	9037.8
5°	7970.0	7970.0	8020.5	8074.4	8178.8	8293.4	8458.4	8657.2	8913.2	8953.6
7.5°	7555.7	7582.6	7626.4	7730.8	7852.1	8017.2	8269.8	8552.8	8889.6	8953.6
10°	7222.2	7252.5	7306.4	7390.6	7572.5	7801.6	8131.7	8495.5	8946.9	9047.9
12.5°	7117.7	7148.1	7178.4	7242.4	7410.8	7680.3	8074.4	8522.4	9085.0	9186.0
15°	7360.3	7397.3	7373.8	7356.9	7444.5	7690.4	8101.4	8620.1	9256.8	9401.6
17.5°	7919.5	7932.9	7879.0	7720.7	7707.2	7838.6	8229.4	8754.9	9472.4	9630.7
20°	8822.2	8798.7	8687.5	8374.2	8195.7	8168.7	8448.3	8957.0	9694.7	9863.1
22.5°	10048.4	10021.4	9799.1	9303.9	8906.4	8643.7	8765.0	9219.7	9944.0	10132.6
25°	11577.7	11540.7	11213.9	10540.2	9923.8	9273.6	9196.1	9566.7	10250.5	10425.7
27.5°	13363.0	13332.7	12979.0	12089.7	11200.4	10136.0	9731.7	9974.3	10570.5	10769.3
30°	15283.1	15370.7	14744.1	13787.5	12662.4	11261.1	10452.6	10476.2	10984.8	11163.4
32.5°	17540.0	17691.6	16937.1	15724.4	14188.3	12483.9	11362.1	11176.9	11587.8	11736.0
35°	19776.8	19948.6	19322.0	17981.3	16212.8	13925.6	12312.1	11981.9	12389.5	12551.2
37.5°	21710.3	21939.4	21616.0	20450.5	18378.8	15663.8	13551.7	12928.5	13376.5	13578.6
40°	23236.3	23586.6	23563.0	22835.4	20932.2	17772.5	15124.8	14097.4	14602.7	14821.6
42.5°	24475.9	24779.1	25041.8	25004.8	23596.7	20167.5	16974.1	15616.6	16000.6	16253.3
45°	25331.5	25654.9	26220.8	26830.5	26160.2	22731.0	19092.9	17418.8	17769.1	18149.8
47.5°	26096.2	26463.3	27197.7	28164.5	28336.3	25304.6	21413.9	19517.4	19837.4	20231.5
50°	26163.5	26480.2	27618.8	28989.8	29882.4	27777.1	23906.6	21872.0	22171.8	22592.9
52.5°	24536.5	25035.1	27022.5	28966.2	30593.2	29845.4	26382.5	24320.9	24657.8	25163.1
55°	19045.8	19776.8	25274.2	28063.4	30340.5	31182.7	28737.1	26924.8	27356.0	27884.9
57.5°	16404.8	16724.9	20063.1	26419.5	29188.5	31529.6	30724.6	29555.7	30249.6	30829.0
60°	14744.1	15010.3	16984.2	23862.8	27672.6	30980.6	32260.6	32008.0	33207.2	33897.7
62.5°	12965.6	13218.2	15013.6	19925.0	25732.4	30067.7	33230.8	34271.6	36238.9	36993.4
65°	11200.4	11416.0	13137.3	16741.7	23266.6	29154.8	33732.7	36228.8	39044.9	39826.4
67.5°	9233.2	9411.7	11038.7	14124.3	20268.6	27905.1	33981.9	37768.2	41487.1	42157.4
70°	6663.0	6801.1	8482.0	11170.1	16505.9	25755.9	33880.9	38859.6	42753.7	43289.3
72.5°	3149.6	3274.2	5248.2	7252.5	11658.6	21572.2	31836.2	37993.9	41466.9	41200.7
75°	1680.9	1788.7	3014.9	3978.3	6157.7	14787.9	26052.4	32728.8	34820.7	33527.2
77.5°	1138.6	1222.8	1866.2	2388.3	2812.7	7020.1	16745.1	22660.2	21801.3	19665.6
80°	902.8	990.4	1529.3	1616.9	1360.9	2536.5	6919.0	10489.7	7535.4	6026.3
82.5°	693.9	791.6	1286.8	1172.3	741.1	1040.9	2014.4	3318.0	1930.2	1468.7
85°	424.4	528.9	1010.6	747.8	417.7	475.0	683.8	923.0	589.5	491.8
87.5°	215.6	303.2	512.0	272.9	188.6	111.2	181.9	181.9	155.0	134.7
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°
9175.9	0°	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9	9175.9
9128.8	2.5°	9209.6	9277.0	9391.5	9499.3	9583.5	9664.4	9745.2	9789.0	9802.5	9856.4
9179.3	5°	9317.4	9442.0	9664.4	9873.2	10004.6	10085.4	10142.7	10176.4	10183.1	10200.0
9317.4	7.5°	9516.2	9714.9	10024.8	10233.7	10331.3	10324.6	10301.0	10216.8	10183.1	10152.8
9519.5	10°	9795.7	10058.5	10439.1	10584.0	10523.4	10361.7	10152.8	9906.9	9792.4	9681.2
9795.7	12.5°	10142.7	10476.2	10850.1	10843.4	10543.6	10129.2	9644.2	9266.9	9027.7	8855.9
10136.0	15°	10563.8	10947.8	11234.1	11005.1	10348.2	9603.7	8893.0	8401.2	8185.6	7996.9
10479.6	17.5°	10998.3	11409.3	11540.7	10954.5	9856.4	8825.6	8020.5	7633.1	7420.9	7319.9
10850.1	20°	11422.8	11830.4	11722.6	10664.8	9108.6	7943.0	7225.5	7013.3	6969.5	6993.1
11210.5	22.5°	11870.8	12234.6	11759.6	10105.7	8155.3	7040.3	6646.2	6652.9	6750.6	6821.3
11587.8	25°	12328.9	12574.8	11661.9	9297.2	7131.2	6376.7	6279.0	6386.8	6578.8	6716.9
12012.3	27.5°	12770.2	12878.0	11449.7	8296.7	6252.0	5901.7	5918.5	6140.9	6430.6	6622.6
12527.6	30°	13268.7	13147.5	11042.1	7171.6	5642.3	5494.1	5635.6	5895.0	6184.7	6356.5
13177.8	32.5°	13831.3	13379.9	10395.3	6130.8	5211.1	5167.4	5399.8	5568.2	5696.2	5746.7
14040.1	35°	14531.9	13706.6	9566.7	5399.8	4823.8	4928.2	5150.5	5066.3	5015.8	4988.8
15198.9	37.5°	15441.4	14147.9	8596.5	4924.8	4510.5	4756.4	4847.3	4584.6	4385.9	4288.2
16603.6	40°	16536.2	14794.7	7663.5	4557.6	4311.7	4608.2	4449.9	4133.2	3880.6	3742.5
18183.4	42.5°	17752.3	15471.8	6878.6	4281.4	4200.6	4486.9	4156.8	3779.5	3371.9	3328.1
20066.5	45°	19028.9	16169.0	6343.0	4069.2	4146.7	4382.5	3988.4	3378.7	3089.0	3267.5
21956.2	47.5°	20305.6	16809.1	6019.6	3910.9	4119.7	4264.6	3840.1	3156.3	2950.9	3210.2
23980.7	50°	21727.2	17381.7	5874.8	3796.4	4089.4	4217.4	3617.8	3099.1	2806.0	2977.8
26076.0	52.5°	23138.6	17826.4	5767.0	3681.8	4045.6	4180.4	3510.0	3031.7	2630.8	2640.9
28184.7	55°	24546.6	18116.1	5649.1	3530.2	3947.9	4099.5	3499.9	2957.6	2499.5	2452.3
30414.6	57.5°	26049.0	18281.1	5504.2	3361.8	3779.5	3894.0	3489.8	2900.3	2459.0	2381.6
32695.2	60°	27578.3	18523.7	5315.6	3156.3	3553.8	3648.1	3466.2	2880.1	2435.5	2304.1
34844.3	62.5°	28949.3	18607.9	5089.9	2961.0	3264.1	3405.6	3415.7	2863.3	2371.5	2145.8
36629.6	65°	29848.7	18244.1	4695.8	2738.6	2950.9	3156.3	3318.0	2806.0	2256.9	2031.2
37512.2	67.5°	29811.7	17206.6	4079.3	2452.3	2647.7	2880.1	3176.5	2708.3	2118.8	1889.8
36845.2	70°	28423.8	15158.5	3297.8	2118.8	2314.2	2583.7	2994.6	2563.5	1953.8	1734.8
32762.5	72.5°	24378.2	11864.0	2395.0	1728.1	1926.8	2277.1	2758.8	2388.3	1785.3	1596.7
24213.1	75°	17415.4	7508.5	1623.6	1327.2	1499.0	1930.2	2465.8	2182.8	1630.4	1603.4
12126.8	77.5°	8896.3	3587.5	1074.6	970.1	1044.3	1522.6	2071.7	1950.4	1654.0	1323.8
3449.4	80°	2893.6	1323.8	677.1	660.2	693.9	1013.9	1603.4	1600.1	1253.1	899.4
835.4	82.5°	923.0	569.3	441.3	424.4	407.6	636.7	1118.4	1266.6	845.5	569.3
299.8	85°	367.2	340.2	259.4	239.2	171.8	299.8	586.1	842.1	629.9	411.0
77.5	87.5°	134.7	134.7	70.7	50.5	37.1	101.1	158.3	252.6	360.4	212.2
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>
9175.9
9886.7
10226.9
10159.6
9647.5
8815.5
7976.7
7350.2
6983.0
6838.2
6753.9
6669.7
6396.9
5773.7
5015.8
4311.7
3752.6
3371.9
3361.8
3331.5
3105.8
2711.7
2486.0
2391.7
2314.2
2145.8
2031.2
1899.9
<i>1755.0</i>
1586.6
1512.5
1179.0
795.0
565.9
421.1
208.9
0.0

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