

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: P954540

Luminaire Tested: **GALN-SB7D-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954540
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-SB7D-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 70728 lumens
Efficiency: N/A
Efficacy: 137.9 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

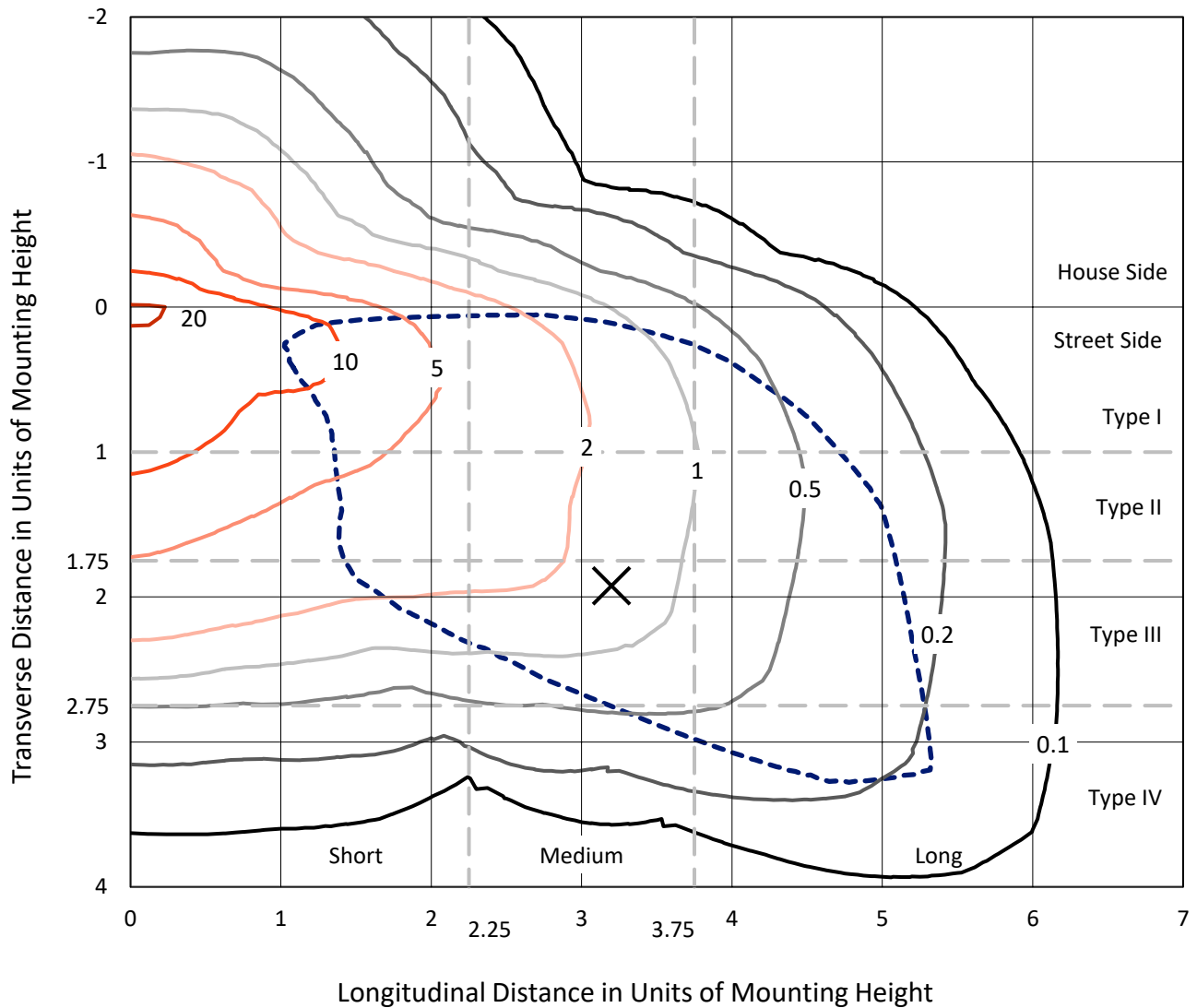
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

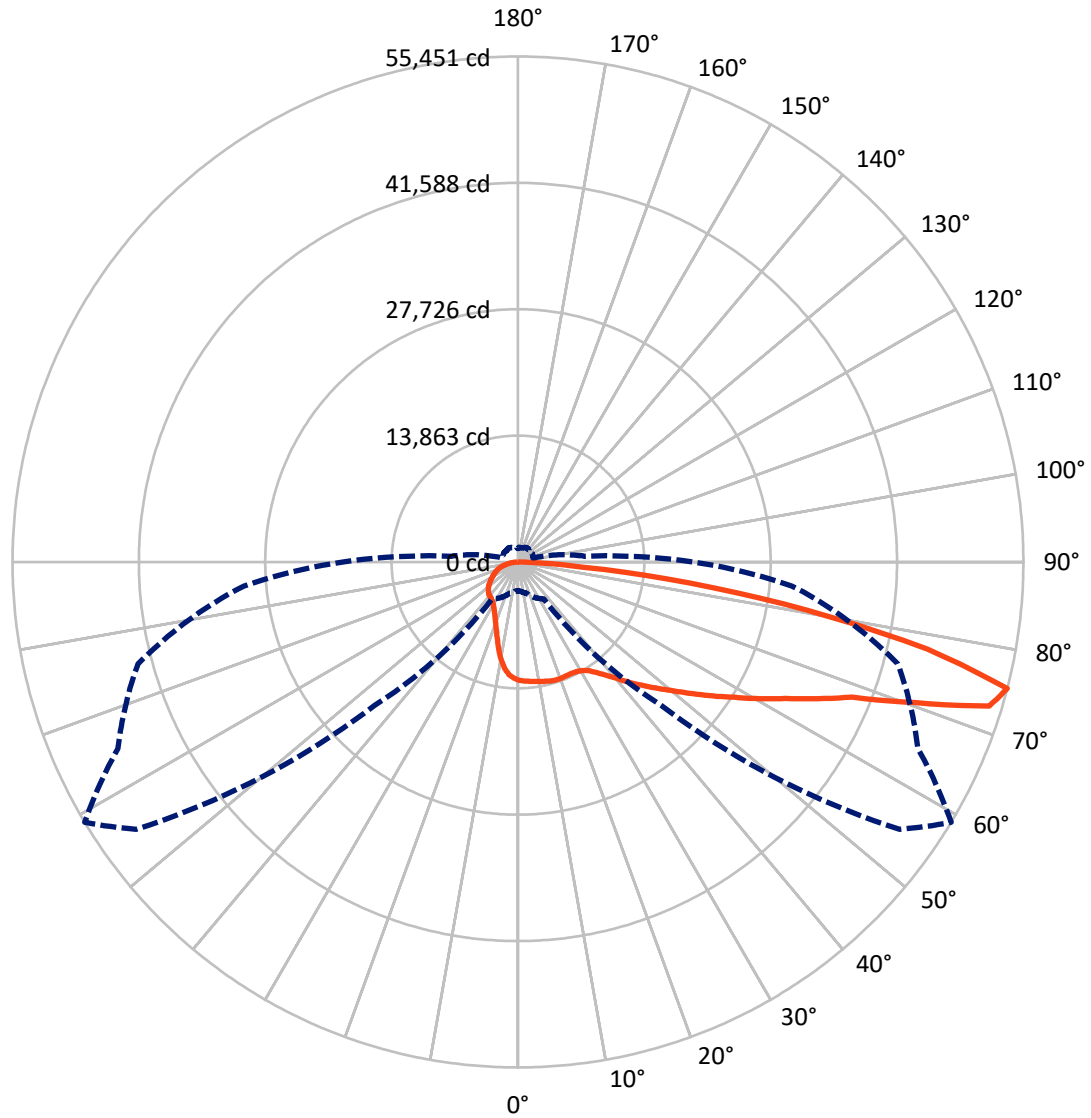
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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	13265.5	0.0	13265.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	57462.5	0.0	57462.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	70728.0	0.0	70728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.0	1.6
10°-20°	2975.4	4.2
20°-30°	4519.4	6.4
30°-40°	6717.9	9.5
40°-50°	9990.7	14.1
50°-60°	13561.2	19.2
60°-70°	16556.0	23.4
70°-80°	12992.9	18.4
80°-90°	2250.7	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°	70728.0	100.0
0°-180°	70728.0	100.0

Coefficient of Utilization

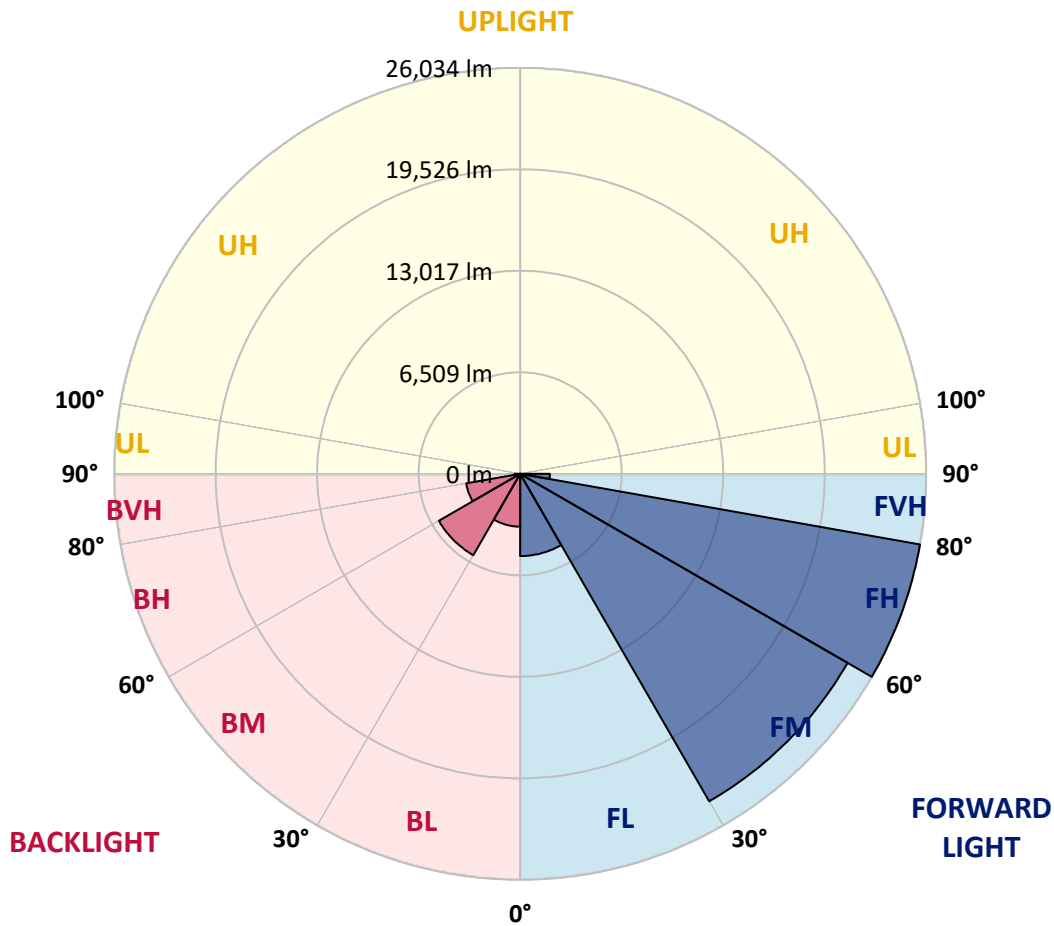


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5273.5	7.5			
FM (30°-60°)	24248.5	34.3			
FH (60°-80°)	26034.3	36.8			G5
FVH (80°-90°)	1906.2	2.7			G5
BL (0°-30°)	3385.2	4.8	B4/5000		
BM (30°-60°)	6021.2	8.5	B4/8500		
BH (60°-80°)	3514.6	5.0	B4/5000		G4/5000
BVH (80°-90°)	344.5	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°	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0
2.5°	13092.3	13046.6	13092.3	13073.3	13065.7	13050.5	13054.3	13080.9	13065.7	13084.7
5°	13004.8	12978.2	13023.8	13012.4	13061.9	13069.5	13118.9	13149.4	13168.4	13172.2
7.5°	12860.2	12833.6	12898.3	12951.5	13058.1	13088.5	13191.2	13240.7	13267.3	13313.0
10°	12331.3	12319.9	12479.7	12681.4	12932.5	13088.5	13244.5	13328.2	13370.1	13491.8
12.5°	11395.4	11410.6	11619.8	12007.9	12510.2	13012.4	13305.4	13427.1	13491.8	13644.0
15°	10501.2	10497.4	10725.7	11140.4	11844.3	12677.6	13335.8	13545.1	13655.4	13879.9
17.5°	9983.8	9968.6	10128.4	10444.2	11098.6	12163.9	13259.7	13609.8	13845.7	14127.2
20°	9888.7	9858.2	9941.9	10097.9	10562.1	11600.8	13061.9	13609.8	13997.8	14363.1
22.5°	10234.9	10185.4	10151.2	10132.2	10337.6	11136.6	12837.4	13564.1	14222.3	14701.7
25°	10931.2	10855.1	10680.1	10508.8	10448.0	10927.4	12639.5	13552.7	14557.2	15158.3
27.5°	12057.4	11962.3	11608.4	11197.5	10828.5	11033.9	12552.0	13621.2	14926.2	15641.5
30°	13453.8	13351.0	12905.9	12274.3	11612.2	11429.6	12662.4	13822.8	15398.0	16284.5
32.5°	14705.5	14591.4	14210.9	13567.9	12673.8	12114.5	13012.4	14207.1	16139.9	17178.7
35°	15816.5	15683.4	15340.9	14747.4	13975.0	13077.1	13644.0	14888.2	17193.9	18632.1
37.5°	16904.7	16748.7	16375.8	15748.1	15207.8	14359.3	14515.3	15763.3	18594.0	20397.5
40°	18122.2	17897.8	17445.0	16824.8	16299.7	15862.2	15660.5	16836.2	20017.0	22368.4
42.5°	19301.7	19088.7	18548.4	18019.5	17361.3	17235.7	16988.4	18091.8	21573.2	24533.3
45°	20572.5	20317.6	19663.2	18993.5	18578.8	18148.9	18274.4	19347.4	23098.9	26740.1
47.5°	21763.4	21478.1	20705.7	19960.0	19731.7	18917.4	19453.9	20728.5	24685.5	28977.3
50°	22406.4	22124.9	21481.9	20808.4	20629.6	19864.8	20732.3	22246.6	26348.2	31206.9
52.5°	22942.9	22638.5	21797.7	21424.8	21371.5	20895.9	22307.5	23981.6	28010.9	33177.8
55°	23513.6	23175.0	22102.1	21767.2	22010.7	22052.6	24175.7	25948.7	29768.7	35099.3
57.5°	24171.9	23741.9	22395.0	22056.4	22634.7	23407.1	26321.6	27988.1	31496.1	36879.9
60°	24792.1	24358.3	22958.1	22516.8	23308.2	24978.5	28783.3	30457.4	33451.8	38466.5
62.5°	24913.8	24556.2	23407.1	23403.3	24221.3	26812.4	31697.8	32949.5	35160.1	40034.1
65°	22806.0	22581.5	21900.4	23369.1	25530.2	29452.9	34943.3	36138.0	37332.7	41403.8
67.5°	17357.5	17387.9	17338.5	20173.0	24472.5	33246.3	39642.2	39550.9	40015.0	42940.9
70°	7936.8	8115.6	9279.9	13925.6	19606.1	33683.9	47411.6	46228.3	43382.3	44930.8
72.5°	4288.0	4425.0	4900.6	6745.9	11787.3	29947.6	53217.7	54058.6	47860.5	46270.1
75°	3146.6	3222.7	3553.7	4288.0	4950.0	22258.1	51136.5	55451.1	48419.8	43146.4
77.5°	2355.2	2389.4	2659.6	3397.7	2534.0	11734.0	40859.7	45923.9	41449.5	35449.3
80°	1708.4	1746.4	1948.1	2549.2	1776.8	4291.8	28056.6	32234.2	28387.6	22596.7
82.5°	1179.5	1194.7	1282.2	1735.0	1240.4	1666.5	15919.3	18902.2	15847.0	7929.2
85°	711.5	730.5	768.6	1012.1	703.9	791.4	6871.5	7107.4	4737.0	1894.8
87.5°	293.0	312.0	342.4	426.1	277.8	220.7	1133.8	1423.0	886.5	555.5
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°
12982.0	0°	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0	12982.0
13020.0	2.5°	13001.0	12974.4	12902.1	12803.1	12711.8	12597.7	12548.2	12506.4	12468.3	12396.0
13122.7	5°	13080.9	13008.6	12814.6	12563.4	12278.1	11966.1	11661.7	11452.4	11273.6	11140.4
13240.7	7.5°	13202.6	13065.7	12711.8	12198.2	11543.8	10874.1	10269.1	9839.2	9515.8	9397.8
13408.1	10°	13328.2	13164.6	12548.2	11642.7	10512.7	9481.6	8678.7	8237.4	7978.7	7895.0
13606.0	12.5°	13476.6	13236.9	12293.3	10870.3	9359.8	8229.8	7529.7	7271.0	7137.8	7092.1
13849.5	15°	13693.5	13297.8	11909.0	9903.9	8260.2	7316.6	6863.9	6685.0	6616.5	6612.7
14100.6	17.5°	13857.1	13309.2	11311.7	8869.0	7415.5	6764.9	6392.1	6323.6	6369.2	6437.7
14347.9	20°	14039.7	13206.4	10527.9	7925.4	6822.0	6281.7	6125.7	6171.4	6281.7	6380.6
14675.1	22.5°	14169.1	13020.0	9580.5	7191.1	6308.4	6004.0	5996.4	6091.5	6152.4	6201.8
15059.4	25°	14283.2	12704.2	8576.0	6574.7	5886.0	5836.6	5920.3	5889.8	5848.0	5889.8
15443.7	27.5°	14366.9	12205.8	7678.1	6034.4	5589.2	5722.4	5673.0	5604.5	5600.7	5623.5
15896.4	30°	14340.3	11539.9	6939.9	5520.8	5380.0	5509.3	5391.4	5380.0	5368.6	5380.0
16577.5	32.5°	14340.3	10782.8	6373.0	5166.9	5246.8	5197.4	5185.9	5159.3	5113.6	5109.8
17502.1	35°	14420.2	10025.6	5886.0	4976.7	5136.5	5018.5	5026.1	4961.5	4866.3	4820.7
18727.2	37.5°	14583.8	9416.9	5402.8	4885.4	4942.4	4938.6	4908.2	4797.8	4630.4	4485.9
20256.7	40°	14979.5	9238.0	5071.8	4843.5	4851.1	4896.8	4816.9	4603.8	4223.3	3987.4
21809.1	42.5°	15599.7	9538.6	4999.5	4740.8	4790.2	4835.9	4679.9	4185.3	3915.1	3774.4
23437.5	45°	16387.3	10063.7	5155.5	4592.4	4645.7	4725.6	4261.4	4025.5	3903.7	3907.5
25050.8	47.5°	17384.1	10615.4	5444.7	4463.0	4436.4	4482.1	3983.6	3839.0	3671.6	3713.5
26599.3	50°	18537.0	11174.7	5718.6	4288.0	4204.3	4055.9	3804.8	3667.8	3454.8	3355.8
28094.6	52.5°	19784.9	11715.0	5828.9	4074.9	3953.2	3782.0	3683.0	3515.6	3256.9	3093.3
29506.2	55°	20968.2	12205.8	5707.2	3820.0	3702.1	3568.9	3553.7	3451.0	3173.2	2944.9
30761.8	57.5°	22086.8	12616.7	5402.8	3561.3	3447.1	3367.2	3470.0	3420.5	3070.5	2777.5
31948.9	60°	23034.2	12898.3	4961.5	3298.8	3218.9	3177.0	3333.0	3317.8	2925.9	2598.7
33014.2	62.5°	23787.6	13008.6	4474.4	3047.6	3028.6	2952.5	3142.8	3142.8	2743.3	2423.7
33950.2	65°	24377.3	12902.1	3979.8	2800.3	2838.4	2724.2	2910.7	2887.8	2549.2	2267.7
35027.0	67.5°	24898.6	12552.0	3431.9	2556.8	2644.3	2499.8	2667.2	2613.9	2336.1	2111.7
35959.1	70°	25130.7	11737.8	2807.9	2313.3	2419.9	2279.1	2423.7	2324.7	2096.4	1944.3
34935.6	72.5°	23266.3	9755.5	2210.6	2058.4	2149.7	2035.6	2161.1	2047.0	1837.7	1769.2
30168.2	75°	19248.5	7320.4	1700.7	1780.6	1849.1	1761.6	1845.3	1761.6	1571.4	1620.8
22284.7	77.5°	13978.8	4942.4	1301.2	1487.7	1518.1	1472.5	1544.7	1449.6	1278.4	1267.0
11106.2	80°	6951.4	2895.5	1019.7	1175.7	1164.3	1133.8	1217.5	1171.9	1027.3	1088.2
2998.2	82.5°	2012.7	1240.4	741.9	825.6	802.8	810.4	871.3	894.1	1339.3	1327.9
932.2	85°	631.6	487.0	445.2	460.4	437.6	449.0	513.6	1019.7	943.6	551.7
289.2	87.5°	163.6	167.4	110.3	117.9	121.8	144.6	163.6	620.2	296.8	194.0
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>
12982.0
12361.8
11030.1
9192.4
7765.6
7103.6
6628.0
6464.3
6414.9
6228.5
5916.5
5661.5
5421.8
5159.3
4866.3
4535.3
4017.9
3774.4
3926.6
3820.0
3382.5
3089.5
2944.9
2762.3
2587.3
2412.2
2252.4
2096.4
1913.8
1712.2
<i>1480.1</i>
1209.9
1076.8
1358.3
597.4
205.5
0.0

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