

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: P953110

Luminaire Tested: **GALN-SB6D-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6D-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

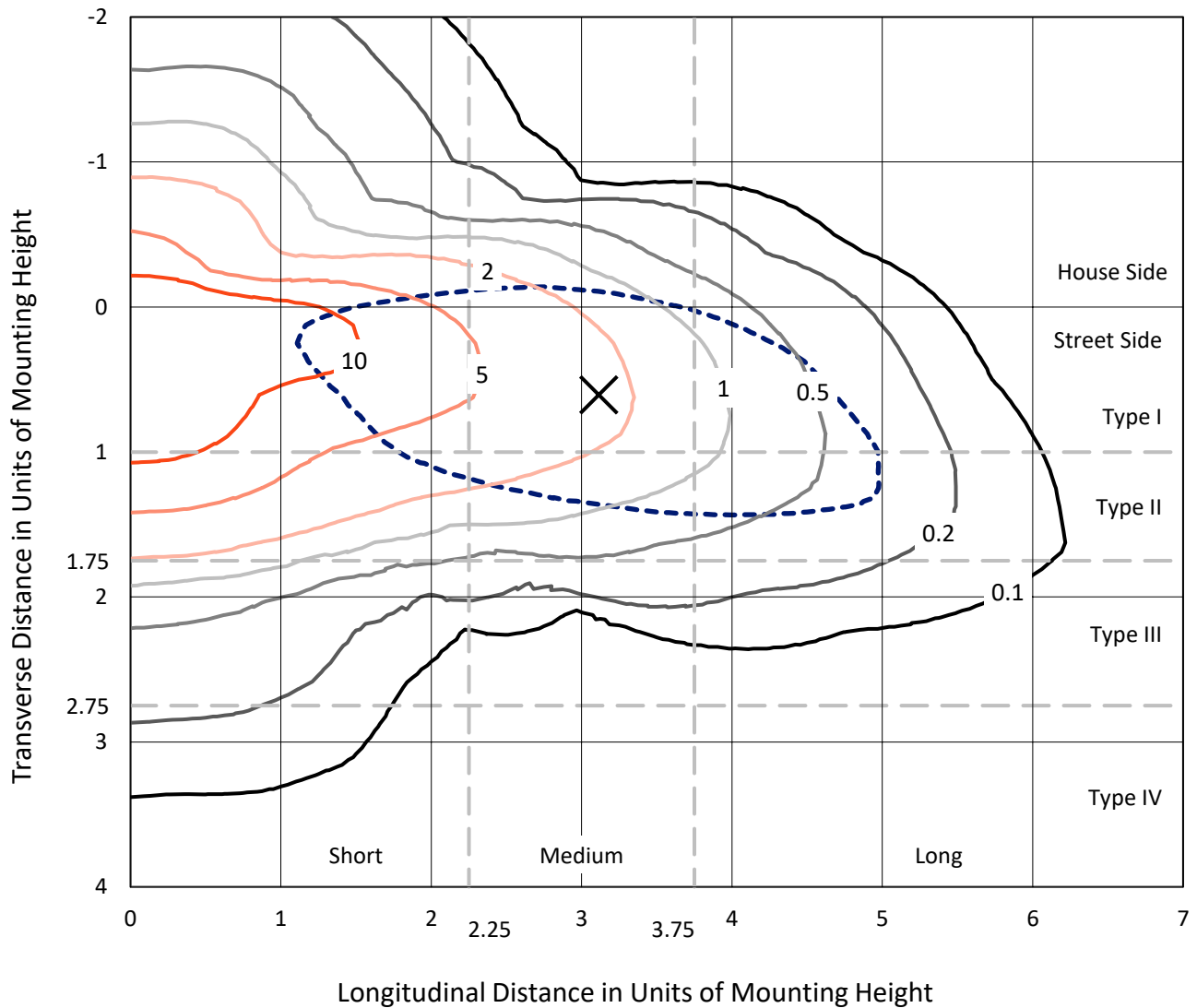
Lumens per Lamp: N/A  
Luminaire Lumens: 61334 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

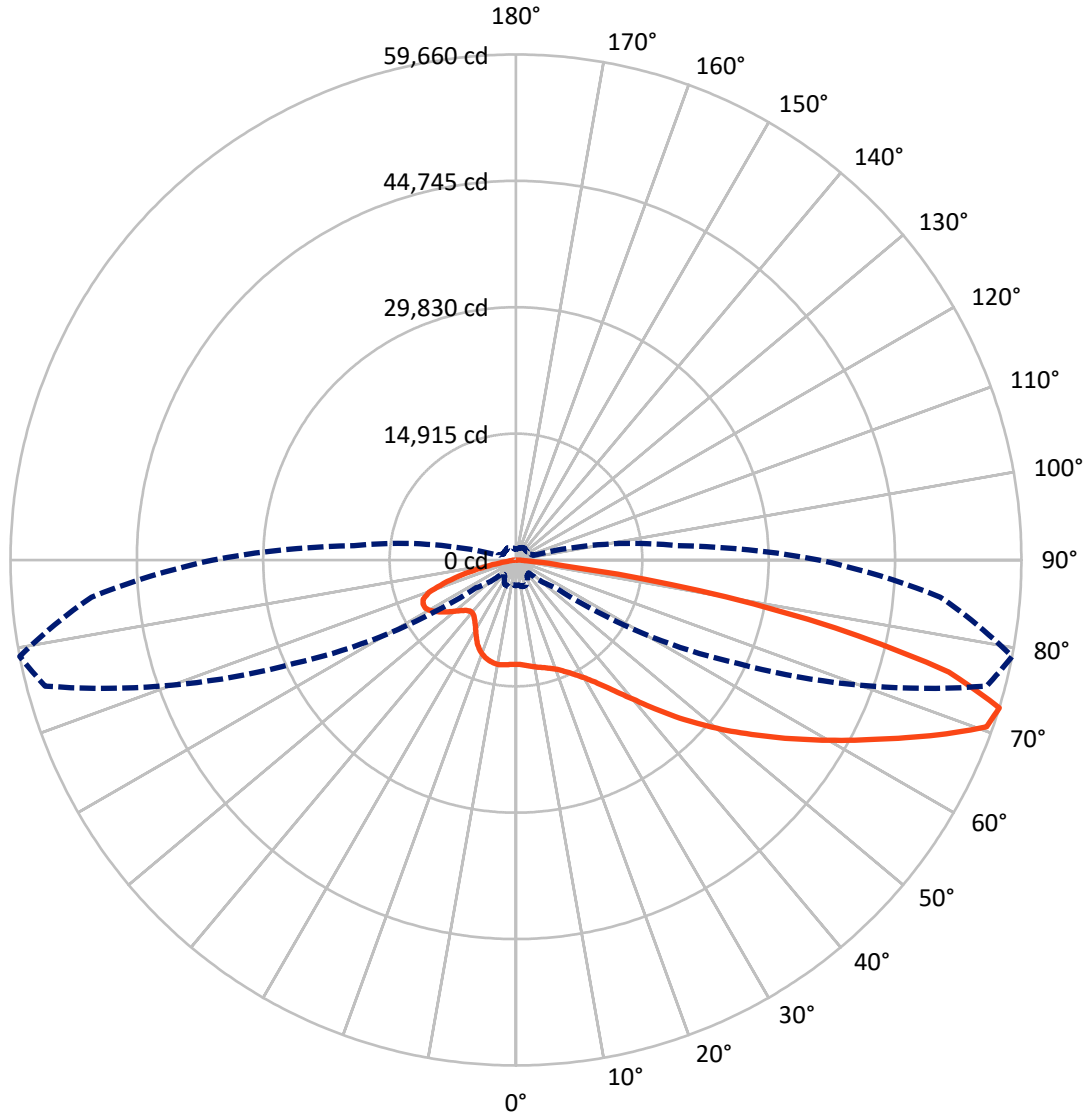
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13496.8	0.0	13496.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	47837.1	0.0	47837.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	61334.0	0.0	61334.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1117.6	1.8
10°-20°	2922.0	4.8
20°-30°	4714.8	7.7
30°-40°	7076.3	11.5
40°-50°	10038.1	16.4
50°-60°	12676.8	20.7
60°-70°	12875.0	21.0
70°-80°	8774.9	14.3
80°-90°	1138.5	1.9
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°	61334.0	100.0
0°-180°	61334.0	100.0

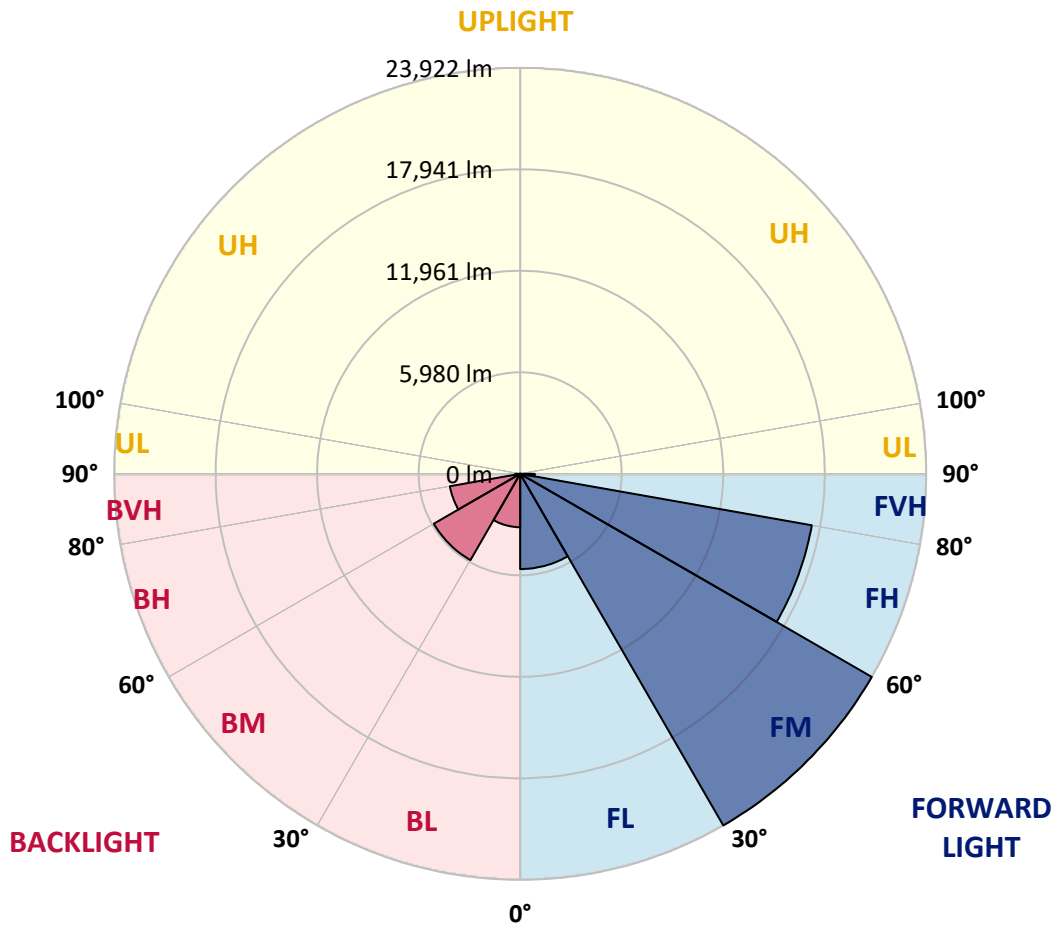


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5610.6	9.1			
FM (30°-60°)	23921.5	39.0			
FH (60°-80°)	17447.4	28.4			G5
FVH (80°-90°)	857.6	1.4			G5
BL (0°-30°)	3143.8	5.1	B4/5000		
BM (30°-60°)	5869.7	9.6	B4/8500		
BH (60°-80°)	4202.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	280.8	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2
2.5°	12318.7	12260.3	12296.0	12283.0	12299.2	12318.7	12325.2	12334.9	12367.4	12364.1
5°	12292.8	12234.4	12283.0	12266.8	12309.0	12354.4	12393.3	12429.0	12480.9	12503.6
7.5°	12237.6	12198.7	12247.3	12296.0	12373.9	12442.0	12497.1	12578.3	12652.9	12665.8
10°	11916.4	11887.2	12000.8	12127.3	12341.4	12526.3	12646.4	12740.5	12821.6	12834.6
12.5°	11582.2	11546.6	11673.1	11845.0	12192.2	12526.3	12779.4	12902.7	12974.1	13016.2
15°	11527.1	11497.9	11569.3	11718.5	12007.3	12438.7	12870.2	13097.3	13159.0	13207.7
17.5°	11793.1	11738.0	11767.2	11819.1	11987.8	12357.6	12941.6	13318.0	13412.0	13464.0
20°	12409.5	12331.7	12286.3	12182.4	12153.2	12370.6	12935.1	13584.0	13707.3	13772.2
22.5°	13230.4	13178.5	13081.1	12818.3	12532.8	12529.6	13058.4	13924.6	14155.0	14216.6
25°	14223.1	14145.3	14022.0	13665.1	13116.8	12844.3	13266.0	14359.4	14745.5	14761.7
27.5°	15365.1	15248.3	15079.6	14609.2	13869.5	13337.4	13584.0	14859.0	15423.5	15417.0
30°	16568.8	16452.0	16273.5	15702.5	14771.4	14002.5	14025.2	15397.6	16228.1	16192.4
32.5°	17448.0	17360.4	17324.7	16883.5	15809.6	14787.6	14531.3	15994.5	17220.9	17188.4
35°	18122.8	18009.3	18051.4	17827.6	16941.9	15666.9	15151.0	16705.0	18427.8	18424.5
37.5°	18791.1	18690.6	18726.2	18577.0	17989.8	16782.9	15906.9	17574.5	19923.4	19994.8
40°	19401.1	19294.0	19436.8	19297.3	18804.1	17970.3	16766.7	18557.5	21655.9	21792.1
42.5°	19767.7	19683.3	19920.2	19923.4	19511.4	18972.8	17710.8	19641.1	23660.9	23965.8
45°	19894.2	19865.0	20221.9	20296.5	20137.5	19553.6	18560.8	20822.1	25821.6	26366.6
47.5°	19757.9	19702.8	20195.9	20471.7	20598.2	19826.1	19264.8	22100.3	28027.7	28825.8
50°	19070.1	18963.1	19696.3	20277.0	20728.0	20004.5	19975.3	23576.5	30535.6	31408.3
52.5°	17834.1	17753.0	18586.7	19595.7	20442.5	20092.1	20773.4	25188.9	32916.9	34046.0
55°	16254.1	16147.0	17065.2	18382.4	19732.0	20062.9	21571.5	26992.8	35726.5	36871.8
57.5°	13749.5	13535.3	14696.8	16254.1	18573.8	20027.2	22402.1	28786.9	38581.5	39953.9
60°	10096.3	9778.4	11202.7	13048.7	16309.2	19680.1	23430.5	30798.4	42007.5	43243.6
62.5°	5878.7	5693.8	6624.9	8347.7	12292.8	17636.2	24008.0	33137.5	45375.1	46672.9
65°	4564.8	4512.9	4594.0	4727.0	6842.3	13204.4	22226.9	35418.3	49657.7	50566.1
67.5°	4175.4	4136.5	4172.2	3922.4	3471.4	7354.9	17584.2	35995.8	54245.1	54796.7
70°	3711.5	3666.1	3782.9	3568.8	2731.7	3344.9	11361.6	33900.0	57895.0	58929.9
72.5°	3023.7	2971.8	3244.3	3147.0	2300.2	2147.7	5706.8	28919.9	57512.2	59659.9
75°	2322.9	2293.7	2618.2	2699.3	1875.2	1690.3	2738.2	21496.9	50611.5	52775.5
77.5°	1803.8	1781.1	1946.6	2241.8	1511.9	1310.7	1683.8	13635.9	38140.3	38519.9
80°	1352.9	1288.0	1440.5	1735.7	1177.7	957.1	1142.0	7951.8	24108.6	21853.8
82.5°	846.8	814.3	940.9	1158.2	830.5	658.6	743.0	4392.8	9661.6	5690.5
85°	483.4	470.4	512.6	661.8	451.0	379.6	425.0	1940.1	1764.9	1213.4
87.5°	194.7	188.2	233.6	295.2	165.5	139.5	149.2	467.2	389.3	360.1
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°
12312.2	0°	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2	12312.2
12360.9	2.5°	12347.9	12347.9	12302.5	12231.1	12150.0	12098.1	12013.7	11991.0	11903.4	11877.5
12471.2	5°	12497.1	12471.2	12331.7	12130.5	11854.8	11601.7	11322.7	11147.5	10900.9	10813.3
12688.6	7.5°	12685.3	12613.9	12373.9	11932.6	11355.1	10787.4	10196.9	9749.2	9320.9	9168.5
12867.0	10°	12857.3	12756.7	12347.9	11575.8	10576.5	9593.5	8652.6	7994.0	7494.4	7290.0
13064.9	12.5°	13029.2	12844.3	12176.0	10982.0	9470.2	8136.8	7134.3	6621.7	6313.5	6066.9
13227.1	15°	13191.4	12931.9	11909.9	10187.2	8256.8	6903.9	6164.2	5755.4	5508.9	5346.6
13464.0	17.5°	13379.6	13006.5	11510.9	9178.2	7101.8	6050.7	5447.2	5200.7	5152.0	5132.5
13788.4	20°	13642.4	13074.6	10985.3	8049.2	6251.8	5369.4	5057.9	5035.2	5031.9	5022.2
14177.7	22.5°	13924.6	13155.7	10291.0	7024.0	5528.3	4944.4	4889.2	4843.8	4814.6	4811.3
14648.1	25°	14258.8	13181.7	9421.5	6183.7	4911.9	4743.2	4678.3	4610.2	4590.7	4590.7
15183.4	27.5°	14583.2	13094.1	8409.3	5453.7	4564.8	4558.3	4473.9	4451.2	4448.0	4457.7
15793.4	30°	14907.7	12928.6	7403.6	4778.9	4363.6	4363.6	4334.4	4350.6	4363.6	4396.1
16630.4	32.5°	15345.7	12753.4	6563.3	4279.3	4188.4	4156.0	4185.2	4217.6	4230.6	4272.8
17730.2	35°	15988.0	12630.2	5894.9	4006.7	4006.7	3964.6	3980.8	3974.3	3945.1	3925.6
19060.4	37.5°	16838.1	12623.7	5343.4	3880.2	3854.3	3847.8	3851.0	3808.8	3695.3	3559.0
20669.6	40°	17860.0	12798.9	4918.4	3792.6	3773.2	3812.1	3792.6	3679.1	3367.6	3130.8
22648.6	42.5°	19232.4	13298.5	4645.9	3685.6	3744.0	3792.6	3714.8	3322.2	3111.3	2952.3
24903.4	45°	20848.0	14109.6	4506.4	3572.0	3688.8	3747.2	3370.9	3198.9	3030.2	2838.8
27362.6	47.5°	22677.8	15131.5	4473.9	3464.9	3565.5	3601.2	3224.9	3147.0	2955.6	2747.9
29834.8	50°	24669.9	16341.7	4561.5	3338.4	3387.1	3263.8	3176.2	3104.8	2906.9	2702.5
32368.6	52.5°	26730.0	17675.1	4736.7	3166.5	3208.6	3072.4	3156.7	3095.1	2877.7	2601.9
34986.8	55°	28754.5	19018.2	4905.4	2965.3	3027.0	2900.4	3101.6	3056.2	2744.7	2433.2
37780.2	57.5°	30811.4	20354.9	5070.9	2786.9	2851.8	2735.0	3014.0	2952.3	2595.5	2277.5
40829.8	60°	32949.4	21652.6	5148.7	2614.9	2660.3	2582.5	2881.0	2773.9	2426.8	2118.5
43827.6	62.5°	34951.1	22733.0	5022.2	2443.0	2472.2	2439.7	2705.8	2563.0	2258.1	1940.1
46951.9	65°	36959.4	23375.4	4632.9	2274.3	2280.8	2264.5	2459.2	2335.9	2060.1	1784.4
49686.9	67.5°	38779.4	23735.5	4013.2	2092.6	2076.4	2069.9	2228.9	2089.3	1868.7	1628.7
51766.5	70°	39165.5	22820.6	3065.9	1878.5	1878.5	1862.2	1975.8	1833.0	1657.9	1463.2
50277.3	72.5°	35771.9	19196.7	2176.9	1635.1	1661.1	1628.7	1722.7	1602.7	1443.7	1314.0
43331.2	75°	28845.3	14077.1	1583.2	1385.3	1430.7	1375.6	1463.2	1378.8	1242.6	1239.3
29860.8	77.5°	19819.6	8704.5	1148.5	1142.0	1174.4	1103.1	1203.6	1158.2	1034.9	979.8
12996.8	80°	8458.0	3471.4	837.0	882.5	882.5	817.6	934.4	947.3	840.3	814.3
2507.9	82.5°	1683.8	986.3	587.2	606.7	571.0	551.5	661.8	733.2	1012.2	1125.8
755.9	85°	506.1	363.4	353.6	330.9	292.0	295.2	389.3	736.5	908.4	519.1
249.8	87.5°	139.5	90.8	94.1	74.6	61.6	81.1	133.0	558.0	305.0	129.8
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>
12312.2
11919.7
10878.2
9187.9
7335.4
6148.0
5375.8
5145.5
5054.7
4847.0
4610.2
4483.7
4418.8
4308.5
3971.1
3562.3
3124.3
2945.8
2825.8
2731.7
2679.8
2582.5
2417.0
2271.0
2108.8
1936.9
1764.9
1609.2
1456.7
1275.0
1116.0
918.1
814.3
1129.0
447.7
110.3
0.0

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