

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: P953112

Luminaire Tested: **GALN-SB6D-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953112
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-SB6D-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 60309 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

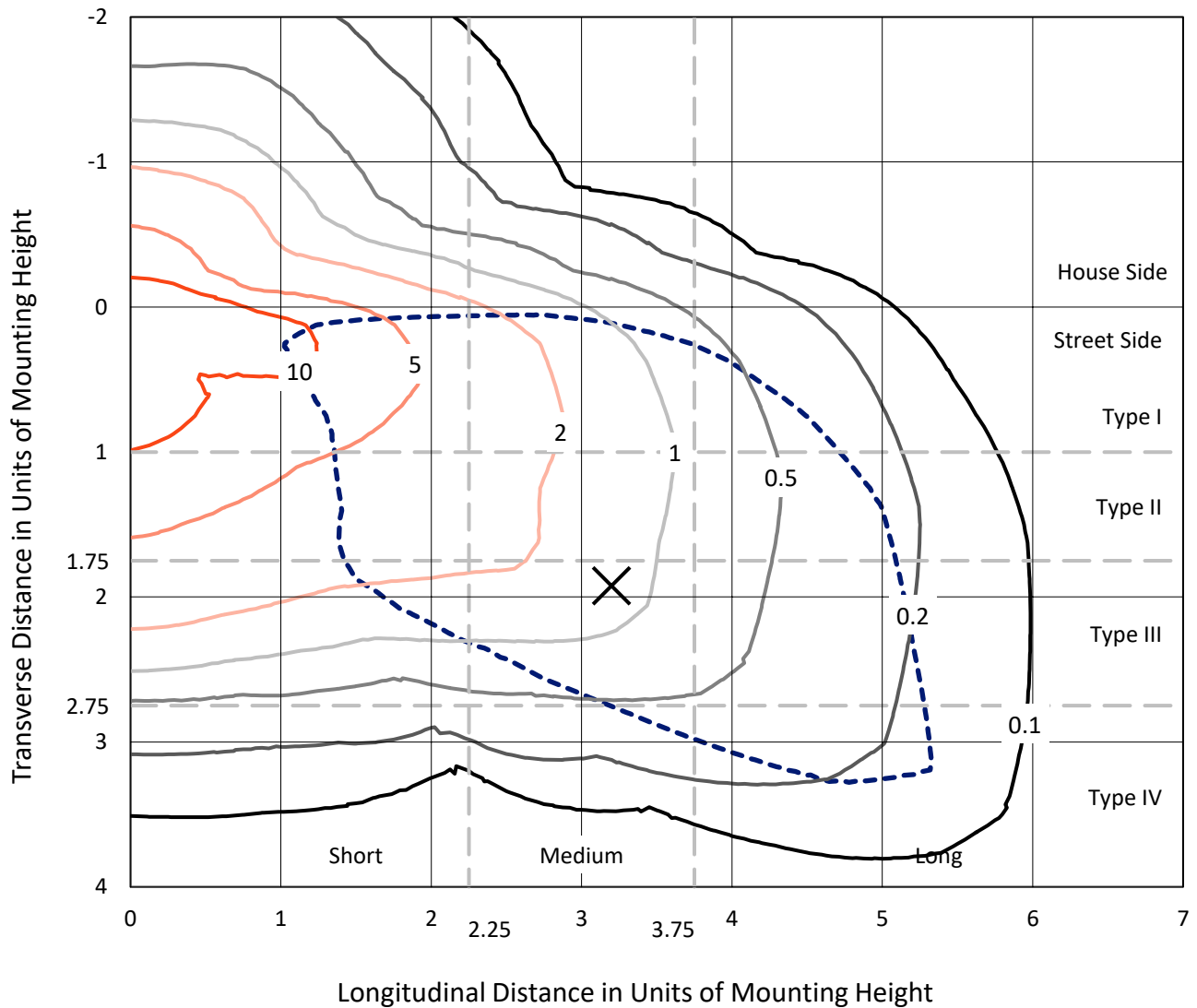
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

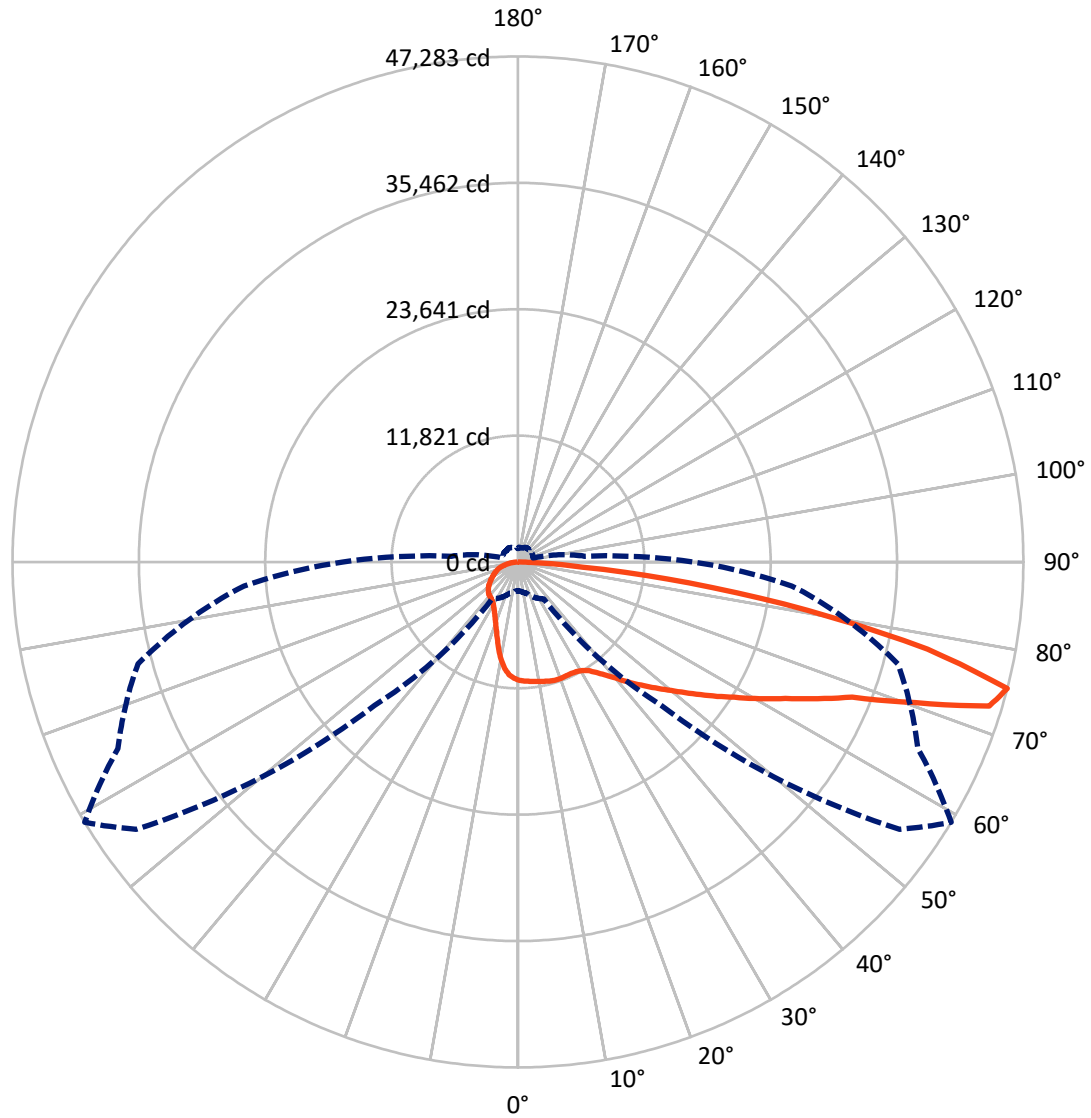
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	11311.4	0.0	11311.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	48997.6	0.0	48997.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	60309.0	0.0	60309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.6	1.6
10°-20°	2537.1	4.2
20°-30°	3853.6	6.4
30°-40°	5728.3	9.5
40°-50°	8518.9	14.1
50°-60°	11563.4	19.2
60°-70°	14117.1	23.4
70°-80°	11078.9	18.4
80°-90°	1919.1	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°	60309.0	100.0
0°-180°	60309.0	100.0

Coefficient of Utilization



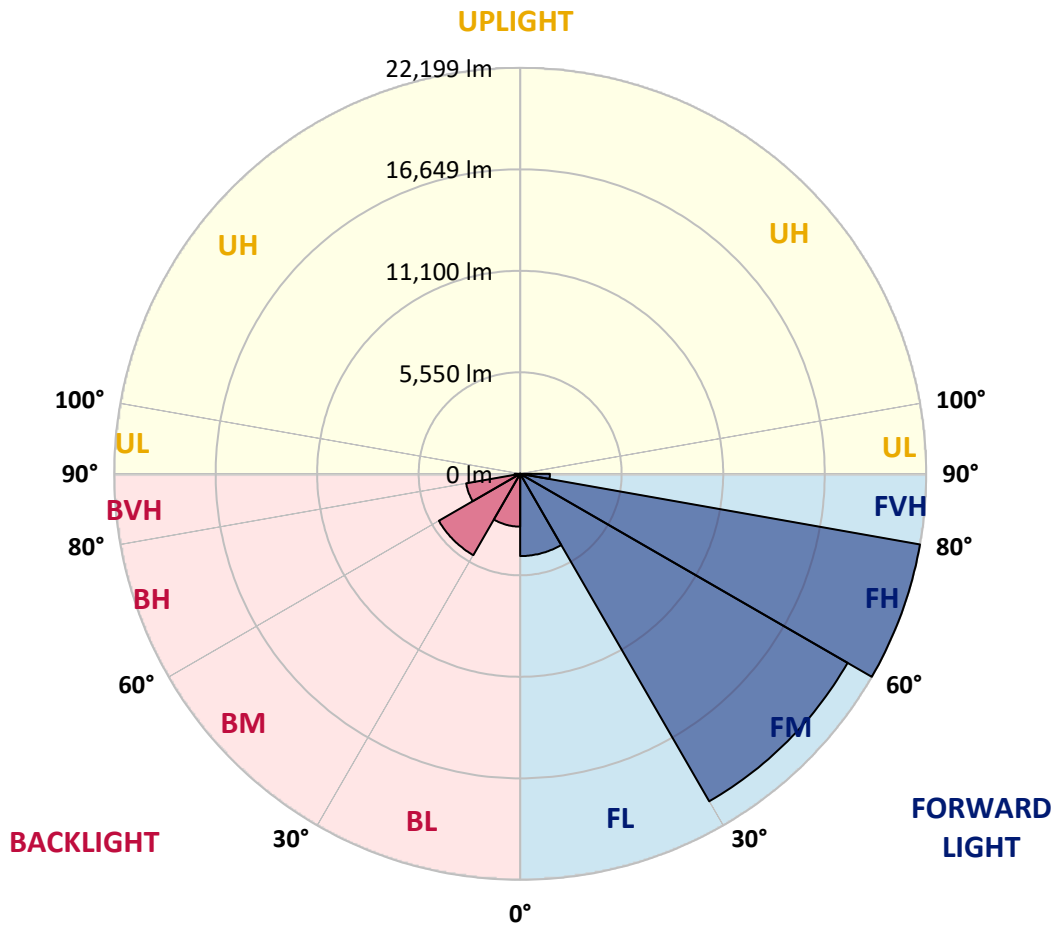
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4496.7	7.5			
FM (30°-60°)	20676.4	34.3			
FH (60°-80°)	22199.1	36.8			G5
FVH (80°-90°)	1625.4	2.7			G5
BL (0°-30°)	2886.5	4.8	B4/5000		
BM (30°-60°)	5134.2	8.5	B4/8500		
BH (60°-80°)	2996.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	293.8	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°	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6
2.5°	11163.7	11124.7	11163.7	11147.4	11141.0	11128.0	11131.2	11153.9	11141.0	11157.2
5°	11089.0	11066.3	11105.3	11095.5	11137.7	11144.2	11186.4	11212.3	11228.6	11231.8
7.5°	10965.8	10943.1	10998.2	11043.6	11134.5	11160.4	11248.0	11290.2	11312.9	11351.8
10°	10514.8	10505.1	10641.3	10813.3	11027.4	11160.4	11293.4	11364.8	11400.5	11504.3
12.5°	9716.7	9729.7	9908.1	10239.0	10667.3	11095.5	11345.3	11449.2	11504.3	11634.1
15°	8954.3	8951.0	9145.7	9499.3	10099.5	10810.0	11371.3	11549.7	11643.8	11835.2
17.5°	8513.1	8500.1	8636.4	8905.6	9463.6	10372.1	11306.4	11604.9	11806.0	12046.1
20°	8432.0	8406.0	8477.4	8610.4	9006.2	9891.9	11137.7	11604.9	11935.8	12247.3
22.5°	8727.2	8685.0	8655.8	8639.6	8814.8	9496.1	10946.3	11566.0	12127.2	12536.0
25°	9320.9	9256.0	9106.8	8960.8	8908.9	9317.7	10777.6	11556.2	12412.7	12925.3
27.5°	10281.2	10200.1	9898.4	9548.0	9233.3	9408.5	10703.0	11614.6	12727.4	13337.4
30°	11471.9	11384.3	11004.7	10466.1	9901.6	9745.9	10797.1	11786.6	13129.7	13885.6
32.5°	12539.3	12441.9	12117.5	11569.2	10806.8	10329.9	11095.5	12114.3	13762.4	14648.1
35°	13486.6	13373.0	13081.1	12574.9	11916.3	11150.7	11634.1	12695.0	14661.0	15887.4
37.5°	14414.5	14281.4	13963.5	13428.2	12967.5	12244.0	12377.0	13441.2	15854.9	17392.7
40°	15452.6	15261.2	14875.2	14346.3	13898.6	13525.5	13353.6	14356.1	17068.3	19073.3
42.5°	16458.4	16276.7	15816.0	15365.0	14803.8	14696.7	14485.8	15426.7	18395.2	20919.3
45°	17542.0	17324.6	16766.6	16195.6	15842.0	15475.4	15582.4	16497.3	19696.2	22801.0
47.5°	18557.4	18314.1	17655.5	17019.6	16825.0	16130.7	16588.2	17675.0	21049.1	24708.7
50°	19105.7	18865.7	18317.4	17743.1	17590.6	16938.5	17678.2	18969.5	22466.8	26609.8
52.5°	19563.2	19303.6	18586.6	18268.7	18223.3	17817.7	19021.4	20448.9	23884.6	28290.4
55°	20049.8	19761.1	18846.2	18560.7	18768.3	18804.0	20614.3	22126.2	25383.5	29928.8
57.5°	20611.1	20244.5	19096.0	18807.3	19300.4	19959.0	22444.1	23865.1	26856.4	31447.1
60°	21139.9	20770.1	19576.2	19199.8	19874.6	21298.9	24543.2	25970.7	28524.0	32800.0
62.5°	21243.7	20938.8	19959.0	19955.7	20653.3	22862.6	27028.3	28095.7	29980.7	34136.6
65°	19446.4	19255.0	18674.2	19926.5	21769.3	25114.2	29795.7	30814.4	31833.2	35304.6
67.5°	14800.5	14826.5	14784.3	17201.3	20867.4	28348.8	33802.5	33724.6	34120.4	36615.3
70°	6767.6	6920.1	7912.9	11874.2	16717.9	28721.9	40427.3	39418.4	36991.6	38312.0
72.5°	3656.3	3773.1	4178.7	5752.2	10050.9	25536.0	45378.2	46095.1	40810.2	39454.0
75°	2683.0	2747.9	3030.2	3656.3	4220.8	18979.2	43603.5	47282.6	41287.1	36790.5
77.5°	2008.2	2037.4	2267.8	2897.2	2160.7	10005.4	34840.6	39158.8	35343.5	30227.2
80°	1456.7	1489.1	1661.1	2173.7	1515.1	3659.6	23923.5	27485.8	24205.8	19268.0
82.5°	1005.7	1018.7	1093.3	1479.4	1057.6	1421.0	13574.2	16117.7	13512.5	6761.1
85°	606.7	622.9	655.4	863.0	600.2	674.8	5859.2	6060.4	4039.2	1615.7
87.5°	249.8	266.0	292.0	363.4	236.8	188.2	966.8	1213.4	755.9	473.7
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°
11069.6	0°	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6	11069.6
11102.0	2.5°	11085.8	11063.1	11001.5	10917.1	10839.2	10741.9	10699.7	10664.0	10631.6	10570.0
11189.6	5°	11153.9	11092.3	10926.8	10712.7	10469.4	10203.4	9943.8	9765.4	9612.9	9499.3
11290.2	7.5°	11257.8	11141.0	10839.2	10401.3	9843.2	9272.2	8756.4	8389.8	8114.0	8013.4
11432.9	10°	11364.8	11225.3	10699.7	9927.6	8964.0	8084.8	7400.3	7023.9	6803.3	6731.9
11601.6	12.5°	11491.3	11287.0	10482.4	9269.0	7981.0	7017.4	6420.5	6199.9	6086.3	6047.4
11809.3	15°	11676.3	11338.9	10154.7	8444.9	7043.4	6238.8	5852.7	5700.3	5641.9	5638.6
12023.4	17.5°	11815.8	11348.6	9645.3	7562.5	6323.2	5768.4	5450.4	5392.0	5431.0	5489.4
12234.3	20°	11971.5	11261.0	8977.0	6757.9	5817.0	5356.4	5223.3	5262.3	5356.4	5440.7
12513.3	22.5°	12081.8	11102.0	8169.2	6131.7	5379.1	5119.5	5113.0	5194.1	5246.0	5288.2
12841.0	25°	12179.1	10832.7	7312.7	5606.2	5018.9	4976.8	5048.1	5022.2	4986.5	5022.2
13168.7	27.5°	12250.5	10407.7	6547.0	5145.5	4765.9	4879.4	4837.3	4778.9	4775.6	4795.1
13554.7	30°	12227.8	9840.0	5917.6	4707.5	4587.5	4697.8	4597.2	4587.5	4577.7	4587.5
14135.5	32.5°	12227.8	9194.4	5434.2	4405.8	4473.9	4431.7	4422.0	4399.3	4360.4	4357.1
14923.8	35°	12295.9	8548.8	5018.9	4243.6	4379.8	4279.2	4285.7	4230.6	4149.5	4110.5
15968.5	37.5°	12435.4	8029.7	4606.9	4165.7	4214.4	4211.1	4185.2	4091.1	3948.3	3825.0
17272.7	40°	12772.8	7877.2	4324.7	4130.0	4136.5	4175.4	4107.3	3925.6	3601.2	3400.0
18596.4	42.5°	13301.7	8133.5	4263.0	4042.4	4084.6	4123.5	3990.5	3568.7	3338.4	3218.4
19984.9	45°	13973.2	8581.2	4396.0	3915.9	3961.3	4029.4	3633.6	3432.5	3328.7	3331.9
21360.5	47.5°	14823.2	9051.6	4642.6	3805.6	3782.9	3821.8	3396.8	3273.5	3130.8	3166.4
22681.0	50°	15806.3	9528.5	4876.2	3656.3	3585.0	3458.4	3244.3	3127.5	2945.8	2861.5
23956.0	52.5°	16870.4	9989.2	4970.3	3474.7	3370.8	3224.8	3140.5	2997.7	2777.1	2637.6
25159.6	55°	17879.4	10407.7	4866.5	3257.3	3156.7	3043.2	3030.2	2942.6	2705.8	2511.1
26230.2	57.5°	18833.2	10758.1	4606.9	3036.7	2939.3	2871.2	2958.8	2916.6	2618.2	2368.3
27242.5	60°	19641.0	10998.2	4230.6	2812.8	2744.7	2709.0	2842.0	2829.0	2494.9	2215.9
28150.9	62.5°	20283.4	11092.3	3815.3	2598.7	2582.5	2517.6	2679.8	2679.8	2339.1	2066.6
28949.0	65°	20786.3	11001.5	3393.5	2387.8	2420.3	2322.9	2481.9	2462.4	2173.7	1933.6
29867.1	67.5°	21230.8	10703.0	2926.4	2180.2	2254.8	2131.5	2274.3	2228.8	1992.0	1800.6
30662.0	70°	21428.7	10008.7	2394.3	1972.5	2063.4	1943.3	2066.6	1982.3	1787.6	1657.8
29789.2	72.5°	19838.9	8318.4	1884.9	1755.2	1833.0	1735.7	1842.8	1745.4	1567.0	1508.6
25724.1	75°	16413.0	6242.1	1450.2	1518.3	1576.7	1502.1	1573.5	1502.1	1339.9	1382.1
19001.9	77.5°	11919.6	4214.4	1109.6	1268.5	1294.5	1255.5	1317.2	1236.1	1090.1	1080.4
9470.1	80°	5927.4	2468.9	869.5	1002.5	992.8	966.8	1038.2	999.2	876.0	927.9
2556.5	82.5°	1716.2	1057.6	632.6	704.0	684.5	691.0	742.9	762.4	1142.0	1132.3
794.9	85°	538.6	415.3	379.6	392.6	373.1	382.8	438.0	869.5	804.6	470.4
246.6	87.5°	139.5	142.7	94.1	100.6	103.8	123.3	139.5	528.8	253.1	165.5
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>
11069.6
10540.8
9405.3
7838.3
6621.6
6057.1
5651.6
5512.1
5469.9
5310.9
5044.9
4827.5
4623.1
4399.3
4149.5
3867.2
3426.0
3218.4
3348.1
3257.3
2884.2
2634.4
2511.1
2355.4
2206.1
2056.9
1920.6
1787.6
1631.9
1459.9
<i>1262.0</i>
1031.7
918.1
1158.2
509.4
175.2
0.0

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