

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: P953259

Luminaire Tested: **GALN-SB6D-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953259
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-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 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: 57687 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

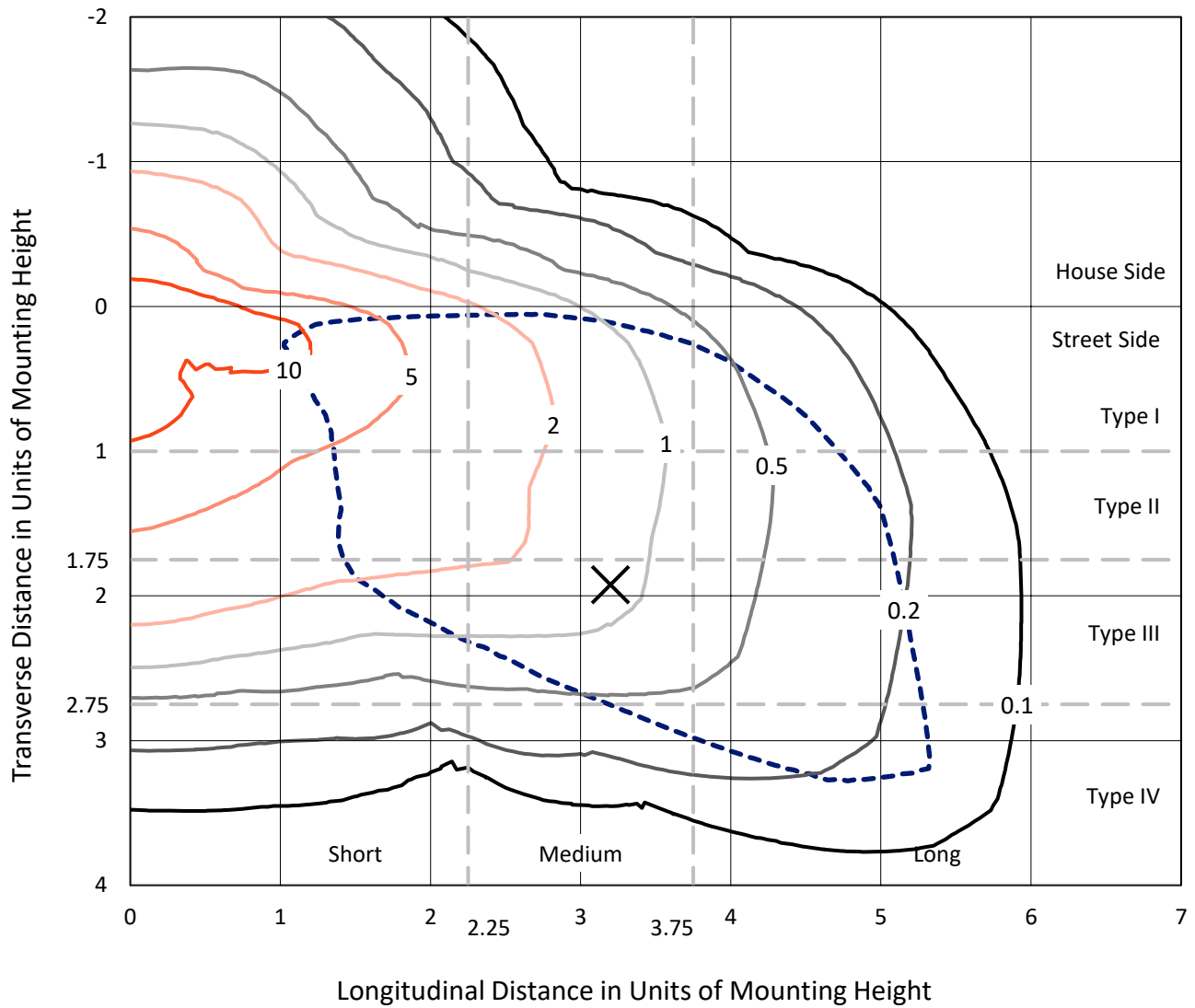
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

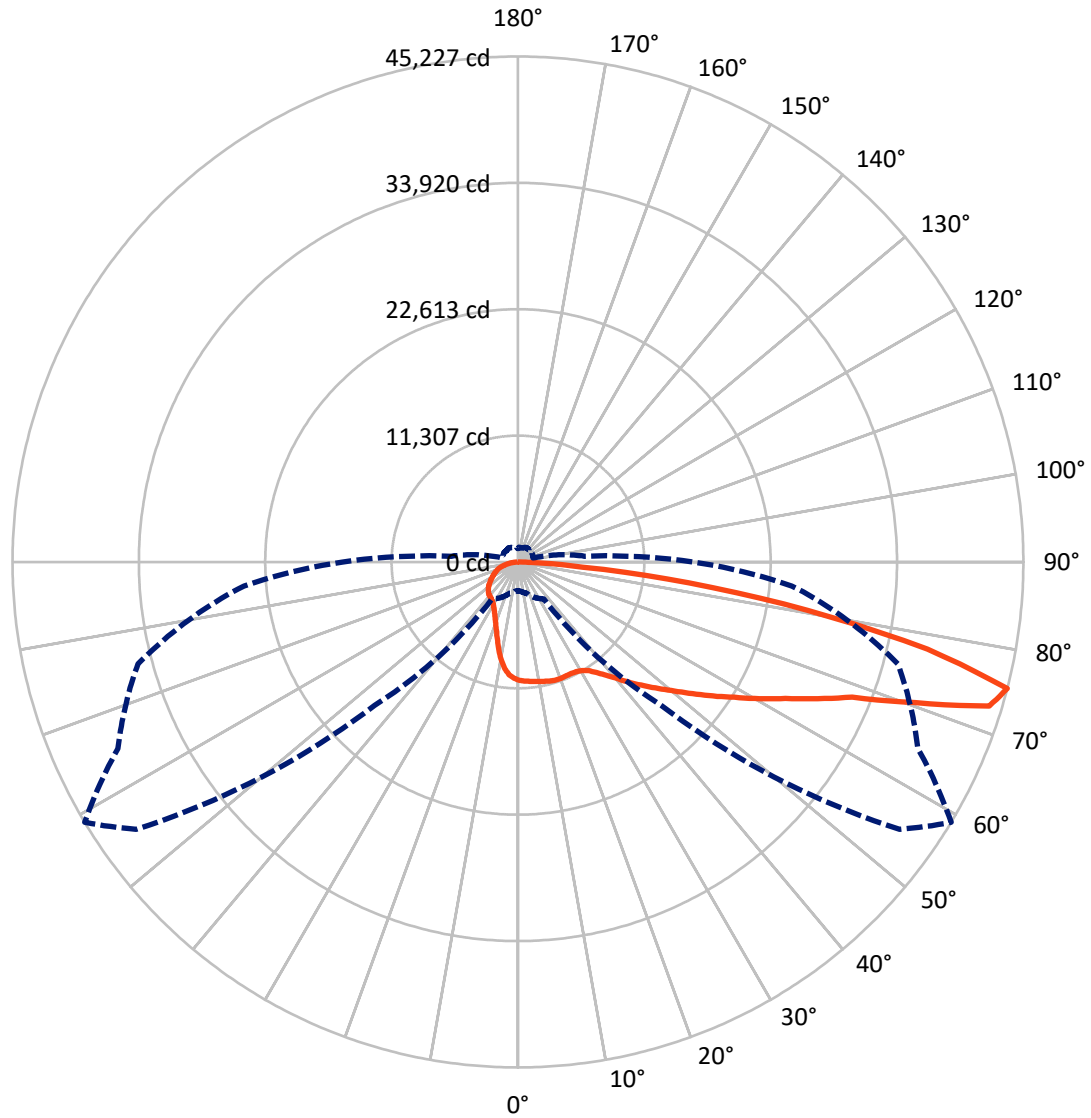
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	10819.6	0.0	10819.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46867.4	0.0	46867.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	57687.0	0.0	57687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.4	1.6
10°-20°	2426.8	4.2
20°-30°	3686.1	6.4
30°-40°	5479.2	9.5
40°-50°	8148.6	14.1
50°-60°	11060.7	19.2
60°-70°	13503.3	23.4
70°-80°	10597.2	18.4
80°-90°	1835.7	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°	57687.0	100.0
0°-180°	57687.0	100.0

Coefficient of Utilization



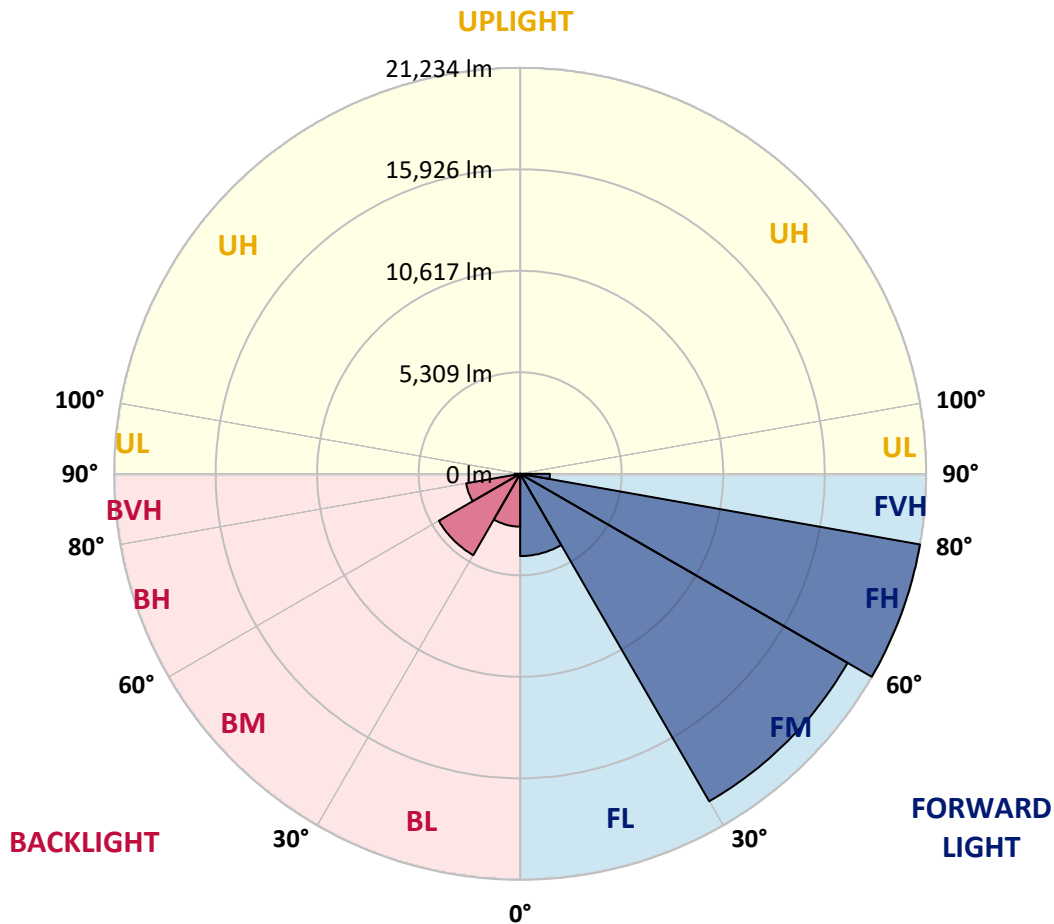
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4301.2	7.5			
FM (30°-60°)	19777.5	34.3			
FH (60°-80°)	21234.0	36.8			G5
FVH (80°-90°)	1554.7	2.7			G5
BL (0°-30°)	2761.0	4.8	B4/5000		
BM (30°-60°)	4911.0	8.5	B3/5000		
BH (60°-80°)	2866.5	5.0	B4/5000		G4/5000
BVH (80°-90°)	281.0	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°	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3
2.5°	10678.3	10641.1	10678.3	10662.8	10656.6	10644.2	10647.3	10669.0	10656.6	10672.1
5°	10606.9	10585.2	10622.5	10613.1	10653.5	10659.7	10700.0	10724.9	10740.4	10743.5
7.5°	10489.0	10467.3	10520.0	10563.5	10650.4	10675.2	10759.0	10799.3	10821.1	10858.3
10°	10057.7	10048.4	10178.7	10343.2	10548.0	10675.2	10802.4	10870.7	10904.9	11004.2
12.5°	9294.3	9306.7	9477.4	9793.9	10203.5	10613.1	10852.1	10951.4	11004.2	11128.3
15°	8565.0	8561.9	8748.1	9086.3	9660.4	10340.1	10876.9	11047.6	11137.6	11320.7
17.5°	8143.0	8130.5	8260.9	8518.4	9052.2	9921.1	10814.9	11100.4	11292.8	11522.4
20°	8065.4	8040.5	8108.8	8236.0	8614.6	9461.8	10653.5	11100.4	11416.9	11714.8
22.5°	8347.8	8307.4	8279.5	8264.0	8431.6	9083.2	10470.4	11063.1	11600.0	11991.0
25°	8915.7	8853.6	8710.8	8571.2	8521.5	8912.6	10309.0	11053.8	11873.1	12363.4
27.5°	9834.2	9756.6	9468.0	9132.9	8831.9	8999.5	10237.7	11109.7	12174.1	12757.5
30°	10973.1	10889.3	10526.3	10011.1	9471.1	9322.2	10327.6	11274.1	12558.9	13281.9
32.5°	11994.1	11901.0	11590.7	11066.2	10337.0	9880.8	10613.1	11587.6	13164.0	14011.2
35°	12900.2	12791.6	12512.3	12028.2	11398.3	10665.9	11128.3	12143.1	14023.6	15196.7
37.5°	13787.8	13660.5	13356.4	12844.4	12403.7	11711.7	11838.9	12856.8	15165.6	16636.6
40°	14780.8	14597.7	14228.4	13722.6	13294.4	12937.5	12773.0	13731.9	16326.2	18244.1
42.5°	15742.8	15569.1	15128.4	14697.0	14160.2	14057.8	13856.1	14756.0	17595.5	20009.8
45°	16779.3	16571.4	16037.6	15491.5	15153.2	14802.5	14905.0	15780.1	18839.9	21809.7
47.5°	17750.6	17517.9	16887.9	16279.7	16093.5	15429.4	15867.0	16906.6	20133.9	23634.4
50°	18275.1	18045.5	17521.0	16971.7	16825.9	16202.1	16909.7	18144.8	21490.1	25452.9
52.5°	18712.7	18464.4	17778.6	17474.5	17431.0	17043.1	18194.4	19559.8	22846.2	27060.4
55°	19178.1	18902.0	18026.8	17753.7	17952.4	17986.5	19718.1	21164.2	24279.9	28627.6
57.5°	19715.0	19364.3	18265.8	17989.6	18461.3	19091.3	21468.3	22827.6	25688.8	30079.9
60°	20220.8	19867.1	18725.1	18365.1	19010.6	20372.9	23476.2	24841.6	27283.9	31374.0
62.5°	20320.1	20028.4	19091.3	19088.1	19755.3	21868.7	25853.3	26874.2	28677.2	32652.5
65°	18600.9	18417.8	17862.4	19060.2	20822.9	24022.3	28500.3	29474.8	30449.2	33769.7
67.5°	14157.1	14181.9	14141.6	16453.5	19960.2	27116.3	32332.9	32258.4	32637.0	35023.4
70°	6473.4	6619.3	7568.8	11357.9	15991.1	27473.2	38669.7	37704.6	35383.4	36646.4
72.5°	3497.4	3609.1	3997.0	5502.1	9613.9	24425.8	43405.3	44091.1	39035.9	37738.7
75°	2566.4	2628.5	2898.4	3497.4	4037.3	18154.1	41707.8	45226.9	39492.1	35191.0
77.5°	1920.9	1948.8	2169.2	2771.2	2066.8	9570.5	33325.9	37456.3	33806.9	28913.1
80°	1393.4	1424.4	1588.9	2079.2	1449.2	3500.5	22883.4	26290.8	23153.4	18430.3
82.5°	962.0	974.4	1045.8	1415.1	1011.7	1359.2	12984.0	15417.0	12925.1	6467.2
85°	580.3	595.8	626.9	825.5	574.1	645.5	5604.5	5796.9	3863.6	1545.4
87.5°	239.0	254.5	279.3	347.6	226.5	180.0	924.8	1160.6	723.1	453.1
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°
10588.3	0°	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3	10588.3
10619.4	2.5°	10603.8	10582.1	10523.2	10442.5	10368.0	10274.9	10234.5	10200.4	10169.4	10110.4
10703.1	5°	10669.0	10610.0	10451.8	10247.0	10014.2	9759.8	9511.5	9340.8	9195.0	9086.3
10799.3	7.5°	10768.3	10656.6	10368.0	9949.0	9415.3	8869.1	8375.7	8025.0	7761.3	7665.1
10935.9	10°	10870.7	10737.3	10234.5	9496.0	8574.3	7733.3	7078.5	6718.6	6507.5	6439.3
11097.3	12.5°	10991.7	10796.2	10026.6	8866.0	7634.0	6712.3	6141.3	5930.3	5821.7	5784.5
11295.9	15°	11168.6	10845.9	9713.2	8077.8	6737.2	5967.6	5598.3	5452.4	5396.6	5393.5
11500.7	17.5°	11302.1	10855.2	9226.0	7233.7	6048.3	5517.6	5213.5	5157.6	5194.9	5250.7
11702.4	20°	11451.0	10771.4	8586.7	6464.1	5564.1	5123.5	4996.2	5033.5	5123.5	5204.2
11969.3	22.5°	11556.5	10619.4	7814.0	5865.2	5145.2	4896.9	4890.7	4968.3	5018.0	5058.3
12282.7	25°	11649.6	10361.8	6994.7	5362.4	4800.7	4760.4	4828.7	4803.8	4769.7	4803.8
12596.1	27.5°	11717.9	9955.3	6262.4	4921.8	4558.7	4667.3	4627.0	4571.1	4568.0	4586.6
12965.4	30°	11696.2	9412.2	5660.3	4502.8	4388.0	4493.5	4397.3	4388.0	4378.7	4388.0
13520.9	32.5°	11696.2	8794.6	5198.0	4214.2	4279.4	4239.1	4229.7	4208.0	4170.8	4167.7
14275.0	35°	11761.4	8177.1	4800.7	4059.1	4189.4	4093.2	4099.4	4046.6	3969.1	3931.8
15274.2	37.5°	11894.8	7680.6	4406.6	3984.6	4031.1	4028.0	4003.2	3913.2	3776.7	3658.7
16521.8	40°	12217.5	7534.7	4136.6	3950.4	3956.7	3993.9	3928.7	3754.9	3444.6	3252.2
17787.9	42.5°	12723.4	7779.9	4077.7	3866.7	3907.0	3944.2	3817.0	3413.6	3193.3	3078.4
19116.1	45°	13365.7	8208.1	4204.9	3745.6	3789.1	3854.2	3475.7	3283.2	3183.9	3187.0
20431.9	47.5°	14178.8	8658.1	4440.8	3640.1	3618.4	3655.6	3249.1	3131.2	2994.6	3028.8
21694.9	50°	15119.1	9114.3	4664.2	3497.4	3429.1	3308.1	3103.3	2991.5	2817.8	2737.1
22914.5	52.5°	16136.9	9554.9	4754.2	3323.6	3224.3	3084.6	3004.0	2867.4	2656.4	2522.9
24065.8	55°	17102.1	9955.3	4654.9	3115.7	3019.5	2910.9	2898.4	2814.7	2588.1	2401.9
25089.9	57.5°	18014.4	10290.4	4406.6	2904.7	2811.6	2746.4	2830.2	2789.8	2504.3	2265.4
26058.1	60°	18787.1	10520.0	4046.6	2690.5	2625.4	2591.2	2718.5	2706.0	2386.4	2119.5
26927.0	62.5°	19401.6	10610.0	3649.4	2485.7	2470.2	2408.1	2563.3	2563.3	2237.4	1976.8
27690.4	65°	19882.6	10523.2	3246.0	2284.0	2315.0	2221.9	2374.0	2355.4	2079.2	1849.5
28568.6	67.5°	20307.7	10237.7	2799.1	2085.4	2156.8	2038.8	2175.4	2131.9	1905.4	1722.3
29328.9	70°	20497.0	9573.6	2290.2	1886.8	1973.7	1858.9	1976.8	1896.1	1709.9	1585.8
28494.1	72.5°	18976.4	7956.8	1803.0	1678.9	1753.3	1660.2	1762.7	1669.6	1498.9	1443.0
24605.7	75°	15699.4	5970.7	1387.2	1452.3	1508.2	1436.8	1505.1	1436.8	1281.6	1322.0
18175.8	77.5°	11401.4	4031.1	1061.3	1213.4	1238.2	1201.0	1259.9	1182.3	1042.7	1033.4
9058.4	80°	5669.7	2361.6	831.7	958.9	949.6	924.8	993.0	955.8	837.9	887.5
2445.4	82.5°	1641.6	1011.7	605.1	673.4	654.8	661.0	710.6	729.3	1092.3	1083.0
760.3	85°	515.1	397.2	363.1	375.5	356.9	366.2	418.9	831.7	769.6	450.0
235.8	87.5°	133.4	136.5	90.0	96.2	99.3	117.9	133.4	505.8	242.1	158.3
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>
10588.3
10082.5
8996.3
7497.5
6333.8
5793.8
5405.9
5272.4
5232.1
5080.0
4825.6
4617.6
4422.1
4208.0
3969.1
3699.1
3277.0
3078.4
3202.6
3115.7
2758.8
2519.8
2401.9
2253.0
2110.2
1967.5
1837.1
1709.9
1560.9
1396.5
1207.2
986.8
878.2
1107.9
487.2
167.6
0.0

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