

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: P950422

Luminaire Tested: **GALN-SB4D-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950422
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-SB4D-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 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: 38774 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

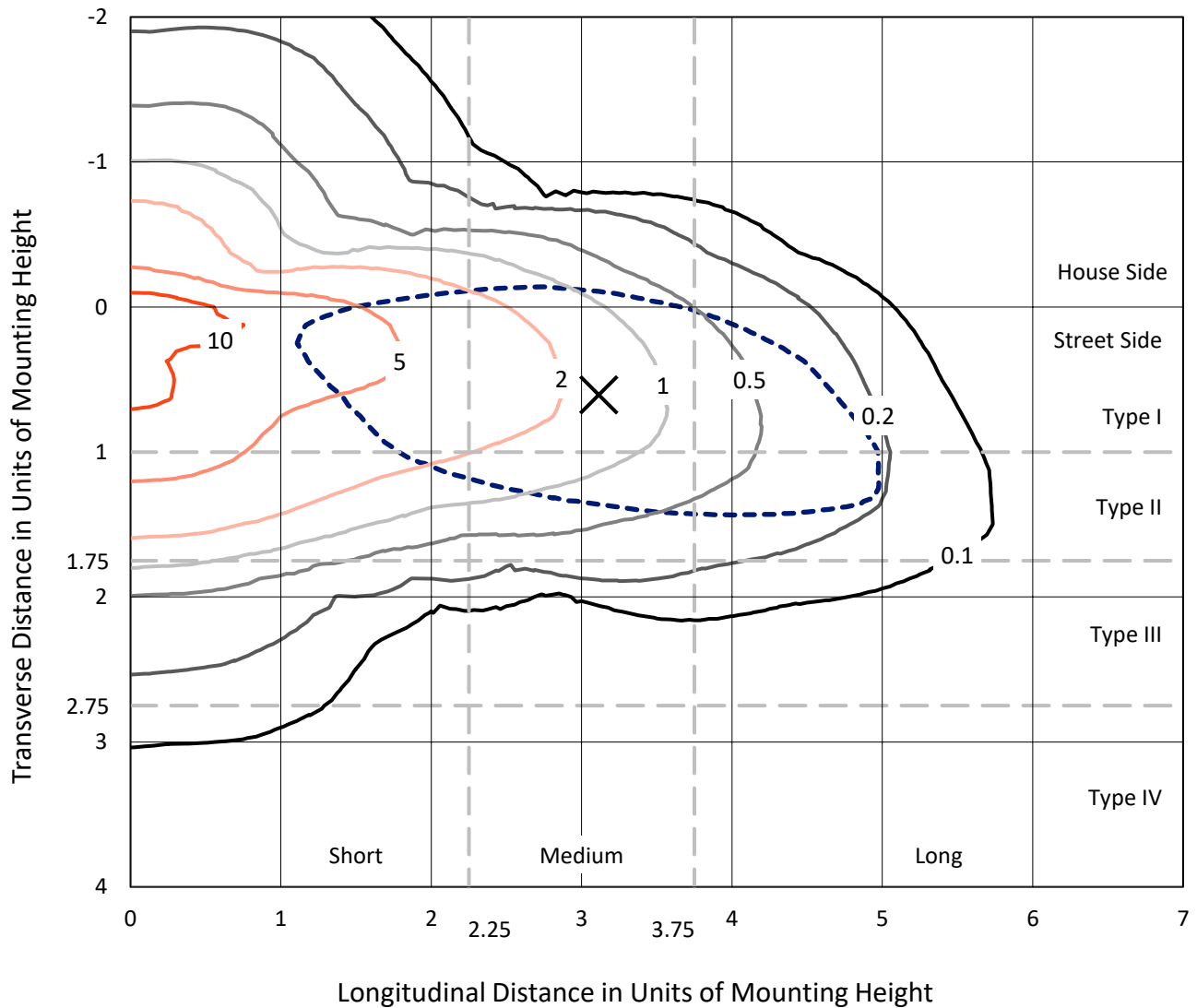
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

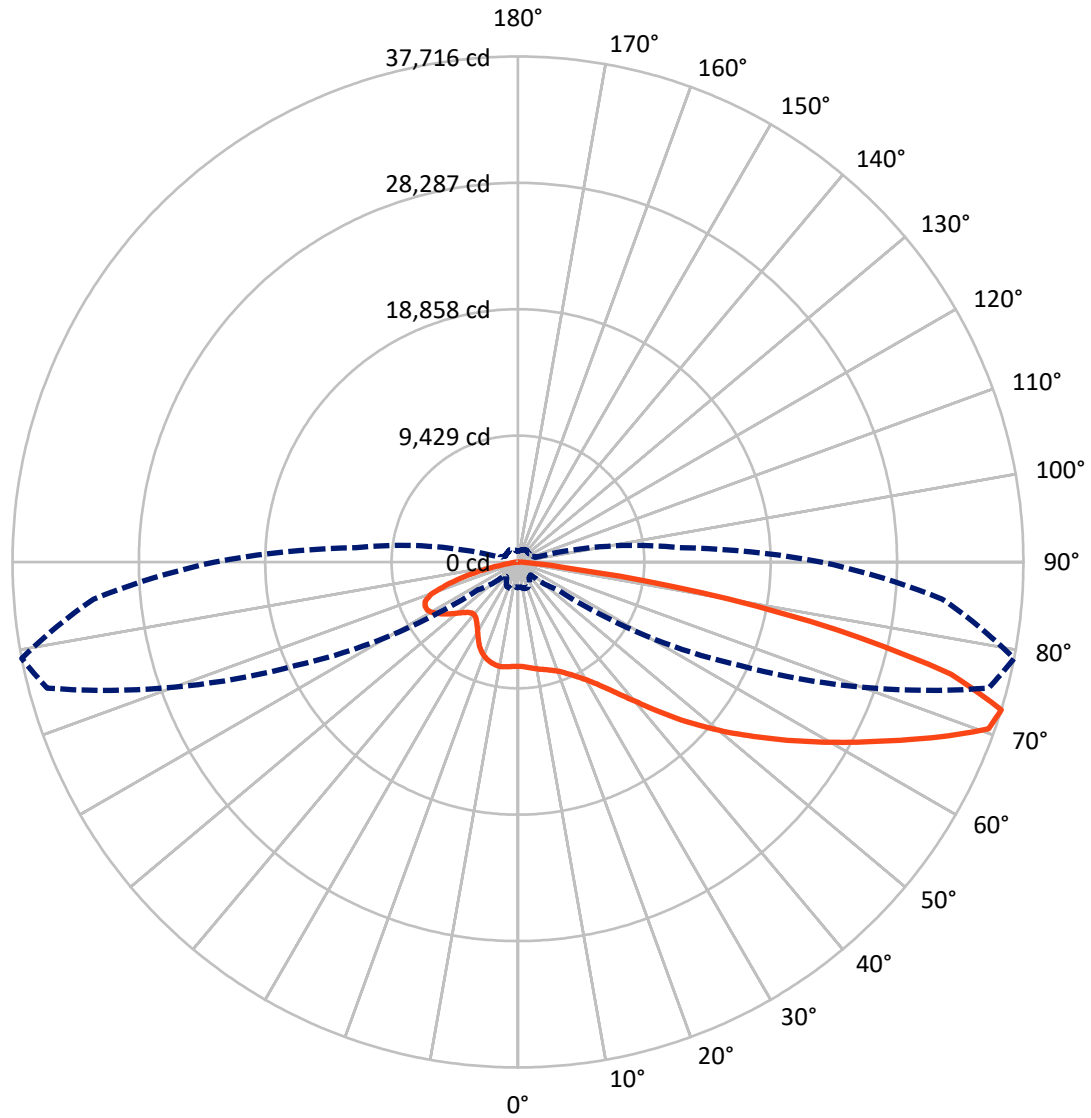
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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
House Side	Lumens	8532.4	0.0	8532.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	30241.6	0.0	30241.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	38774.0	0.0	38774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.5	1.8
10°-20°	1847.2	4.8
20°-30°	2980.6	7.7
30°-40°	4473.5	11.5
40°-50°	6345.9	16.4
50°-60°	8014.0	20.7
60°-70°	8139.3	21.0
70°-80°	5547.3	14.3
80°-90°	719.7	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°	38774.0	100.0
0°-180°	38774.0	100.0

Coefficient of Utilization



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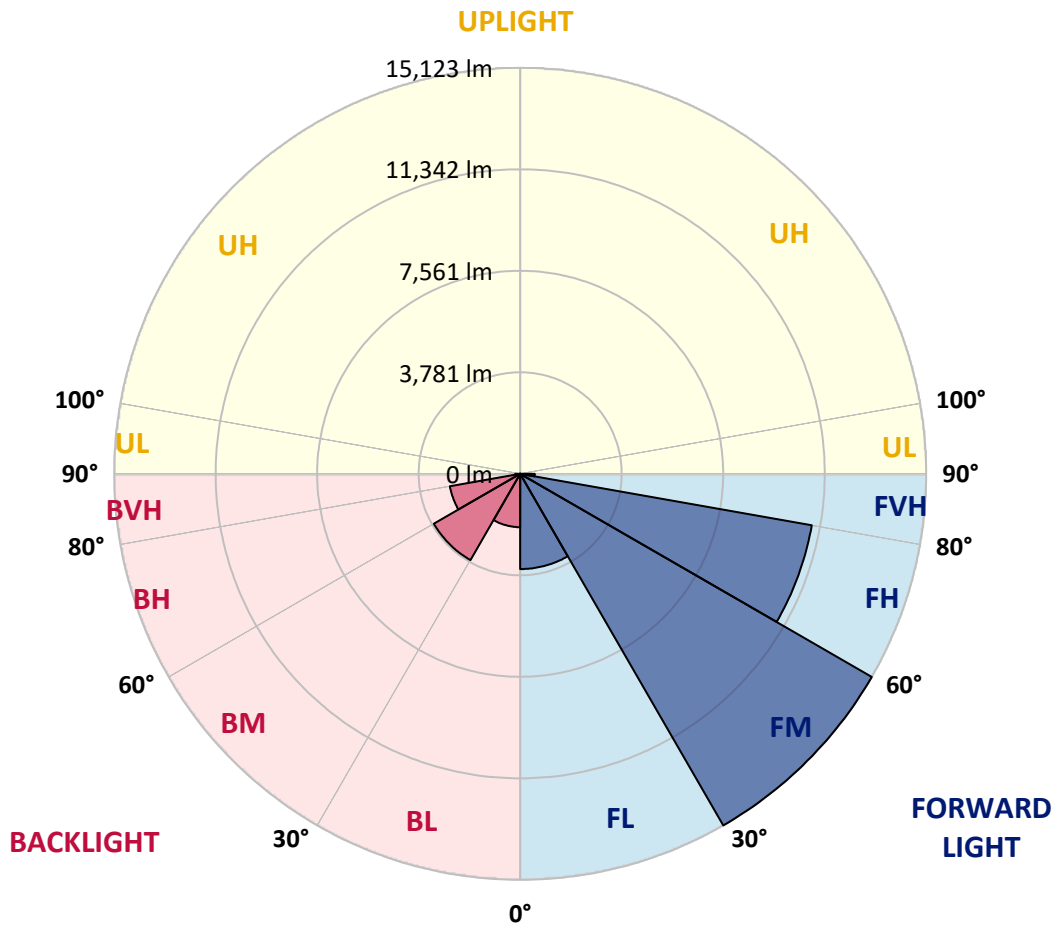
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3546.9	9.1			
FM (30°-60°)	15122.7	39.0			
FH (60°-80°)	11029.9	28.4			G4/12000
FVH (80°-90°)	542.2	1.4			G4/750
BL (0°-30°)	1987.4	5.1	B3/2500		
BM (30°-60°)	3710.7	9.6	B3/5000		
BH (60°-80°)	2656.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	177.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5
2.5°	7787.6	7750.7	7773.3	7765.1	7775.3	7787.6	7791.7	7797.9	7818.4	7816.3
5°	7771.2	7734.3	7765.1	7754.8	7781.5	7810.2	7834.8	7857.3	7890.2	7904.5
7.5°	7736.3	7711.7	7742.5	7773.3	7822.5	7865.6	7900.4	7951.7	7998.9	8007.1
10°	7533.3	7514.8	7586.6	7666.6	7802.0	7918.9	7994.8	8054.2	8105.5	8113.7
12.5°	7322.0	7299.5	7379.5	7488.2	7707.6	7918.9	8078.9	8156.8	8201.9	8228.6
15°	7287.2	7268.7	7313.8	7408.2	7590.7	7863.5	8136.3	8279.9	8318.8	8349.6
17.5°	7455.4	7420.5	7438.9	7471.8	7578.4	7812.2	8181.4	8419.3	8478.8	8511.6
20°	7845.0	7795.8	7767.1	7701.5	7683.0	7820.4	8177.3	8587.5	8665.4	8706.5
22.5°	8363.9	8331.1	8269.6	8103.5	7923.0	7920.9	8255.2	8802.9	8948.5	8987.4
25°	8991.5	8942.3	8864.4	8638.8	8292.2	8119.9	8386.5	9077.7	9321.8	9332.0
27.5°	9713.5	9639.7	9533.0	9235.6	8768.0	8431.6	8587.5	9393.5	9750.4	9746.3
30°	10474.4	10400.6	10287.8	9926.8	9338.2	8852.1	8866.4	9734.0	10259.1	10236.5
32.5°	11030.2	10974.9	10952.3	10673.4	9994.5	9348.4	9186.4	10111.4	10886.7	10866.2
35°	11456.8	11385.1	11411.7	11270.2	10710.3	9904.2	9578.1	10560.6	11649.6	11647.6
37.5°	11879.3	11815.8	11838.3	11744.0	11372.7	10609.8	10056.0	11110.2	12595.1	12640.3
40°	12264.9	12197.2	12287.5	12199.3	11887.5	11360.4	10599.5	11731.7	13690.4	13776.5
42.5°	12496.7	12443.4	12593.1	12595.1	12334.7	11994.2	11196.4	12416.7	14957.9	15150.7
45°	12576.7	12558.2	12783.8	12831.0	12730.5	12361.3	11733.7	13163.3	16323.8	16668.4
47.5°	12490.5	12455.7	12767.4	12941.8	13021.7	12533.6	12178.8	13971.4	17718.5	18223.1
50°	12055.7	11988.0	12451.6	12818.7	13103.8	12646.4	12628.0	14904.6	19303.9	19855.6
52.5°	11274.3	11223.0	11750.1	12388.0	12923.3	12701.8	13132.5	15923.9	20809.4	21523.1
55°	10275.5	10207.8	10788.2	11620.9	12474.1	12683.3	13637.0	17064.2	22585.5	23309.5
57.5°	8692.1	8556.7	9291.0	10275.5	11741.9	12660.8	14162.1	18198.4	24390.4	25258.0
60°	6382.7	6181.7	7082.1	8249.1	10310.3	12441.3	14812.3	19470.1	26556.2	27337.7
62.5°	3716.4	3599.5	4188.1	5277.2	7771.2	11149.2	15177.3	20948.8	28685.2	29505.6
65°	2885.7	2852.9	2904.2	2988.3	4325.5	8347.5	14051.3	22390.7	31392.5	31966.7
67.5°	2639.6	2615.0	2637.6	2479.6	2194.6	4649.6	11116.4	22755.7	34292.6	34641.2
70°	2346.3	2317.6	2391.5	2256.1	1726.9	2114.6	7182.6	21430.8	36599.9	37254.2
72.5°	1911.5	1878.7	2051.0	1989.5	1454.2	1357.8	3607.7	18282.5	36357.9	37715.7
75°	1468.5	1450.1	1655.1	1706.4	1185.5	1068.6	1731.0	13589.9	31995.5	33363.5
77.5°	1140.4	1126.0	1230.6	1417.2	955.8	828.6	1064.5	8620.3	24111.5	24351.4
80°	855.3	814.2	910.6	1097.3	744.5	605.0	721.9	5027.0	15240.9	13815.5
82.5°	535.3	514.8	594.8	732.2	525.1	416.4	469.7	2777.0	6107.9	3597.4
85°	305.6	297.4	324.1	418.4	285.1	240.0	268.7	1226.5	1115.7	767.1
87.5°	123.1	119.0	147.7	186.6	104.6	88.2	94.3	295.3	246.1	227.7
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°
7783.5	0°	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5	7783.5
7814.3	2.5°	7806.1	7806.1	7777.4	7732.2	7681.0	7648.1	7594.8	7580.5	7525.1	7508.7
7884.0	5°	7900.4	7884.0	7795.8	7668.7	7494.3	7334.3	7158.0	7047.2	6891.3	6836.0
8021.4	7.5°	8019.4	7974.3	7822.5	7543.5	7178.5	6819.5	6446.3	6163.2	5892.5	5796.1
8134.2	10°	8128.1	8064.5	7806.1	7317.9	6686.2	6064.8	5470.0	5053.6	4737.8	4608.6
8259.3	12.5°	8236.8	8119.9	7697.4	6942.6	5986.8	5143.9	4510.1	4186.1	3991.2	3835.4
8361.9	15°	8339.3	8175.3	7529.2	6440.1	5219.8	4364.5	3896.9	3638.5	3482.6	3380.0
8511.6	17.5°	8458.3	8222.4	7276.9	5802.3	4489.6	3825.1	3443.6	3287.7	3257.0	3244.7
8716.7	20°	8624.4	8265.5	6944.7	5088.5	3952.3	3394.4	3197.5	3183.1	3181.1	3174.9
8962.8	22.5°	8802.9	8316.8	6505.7	4440.4	3494.9	3125.7	3090.8	3062.1	3043.7	3041.6
9260.2	25°	9014.1	8333.2	5956.1	3909.2	3105.2	2998.5	2957.5	2914.5	2902.2	2902.2
9598.6	27.5°	9219.2	8277.8	5316.2	3447.7	2885.7	2881.6	2828.3	2814.0	2811.9	2818.1
9984.2	30°	9424.3	8173.2	4680.4	3021.1	2758.6	2758.6	2740.1	2750.4	2758.6	2779.1
10513.4	32.5°	9701.2	8062.4	4149.2	2705.3	2647.8	2627.3	2645.8	2666.3	2674.5	2701.2
11208.7	35°	10107.3	7984.5	3726.7	2533.0	2533.0	2506.3	2516.6	2512.5	2494.0	2481.7
12049.6	37.5°	10644.6	7980.4	3378.0	2453.0	2436.6	2432.5	2434.5	2407.9	2336.1	2249.9
13066.9	40°	11290.7	8091.2	3109.3	2397.6	2385.3	2409.9	2397.6	2325.8	2128.9	1979.2
14318.0	42.5°	12158.3	8407.0	2937.0	2329.9	2366.8	2397.6	2348.4	2100.2	1966.9	1866.4
15743.4	45°	13179.7	8919.8	2848.8	2258.1	2332.0	2368.9	2131.0	2022.3	1915.6	1794.6
17298.1	47.5°	14336.4	9565.8	2828.3	2190.5	2254.0	2276.6	2038.7	1989.5	1868.5	1737.2
18860.9	50°	15595.7	10330.8	2883.7	2110.5	2141.2	2063.3	2007.9	1962.8	1837.7	1708.5
20462.7	52.5°	16898.1	11173.8	2994.4	2001.8	2028.4	1942.3	1995.6	1956.6	1819.2	1644.9
22117.9	55°	18177.9	12022.9	3101.1	1874.6	1913.6	1833.6	1960.7	1932.0	1735.1	1538.2
23883.8	57.5°	19478.3	12867.9	3205.7	1761.8	1802.8	1729.0	1905.4	1866.4	1640.8	1439.8
25811.7	60°	20829.9	13688.3	3254.9	1653.1	1681.8	1632.6	1821.3	1753.6	1534.1	1339.3
27706.8	62.5°	22095.3	14371.3	3174.9	1544.4	1562.9	1542.3	1710.5	1620.3	1427.5	1226.5
29681.9	65°	23364.9	14777.4	2928.8	1437.7	1441.8	1431.6	1554.7	1476.7	1302.4	1128.0
31410.9	67.5°	24515.5	15005.1	2537.1	1322.9	1312.6	1308.5	1409.0	1320.8	1181.4	1029.6
32725.6	70°	24759.6	14426.7	1938.2	1187.5	1187.5	1177.3	1249.1	1158.8	1048.1	925.0
31784.2	72.5°	22614.2	12135.7	1376.2	1033.7	1050.1	1029.6	1089.1	1013.2	912.7	830.7
27393.0	75°	18235.4	8899.3	1000.9	875.8	904.5	869.6	925.0	871.7	785.5	783.5
18877.3	77.5°	12529.5	5502.8	726.1	721.9	742.5	697.3	760.9	732.2	654.3	619.4
8216.3	80°	5346.9	2194.6	529.2	557.9	557.9	516.8	590.7	598.9	531.2	514.8
1585.4	82.5°	1064.5	623.5	371.2	383.5	361.0	348.7	418.4	463.5	639.9	711.7
477.9	85°	320.0	229.7	223.6	209.2	184.6	186.6	246.1	465.6	574.3	328.2
157.9	87.5°	88.2	57.4	59.5	47.2	39.0	51.3	84.1	352.8	192.8	82.0
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>
7783.5
7535.3
6877.0
5808.4
4637.3
3886.6
3398.5
3252.9
3195.4
3064.2
2914.5
2834.5
2793.5
2723.7
2510.4
2252.0
1975.1
1862.3
1786.4
1726.9
1694.1
1632.6
1528.0
1435.7
1333.1
1224.4
1115.7
1017.3
920.9
<i>806.0</i>
705.5
580.4
514.8
713.7
283.0
69.7
0.0

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