

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: P941315

Luminaire Tested: **GALN-SB4D-750-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-750-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

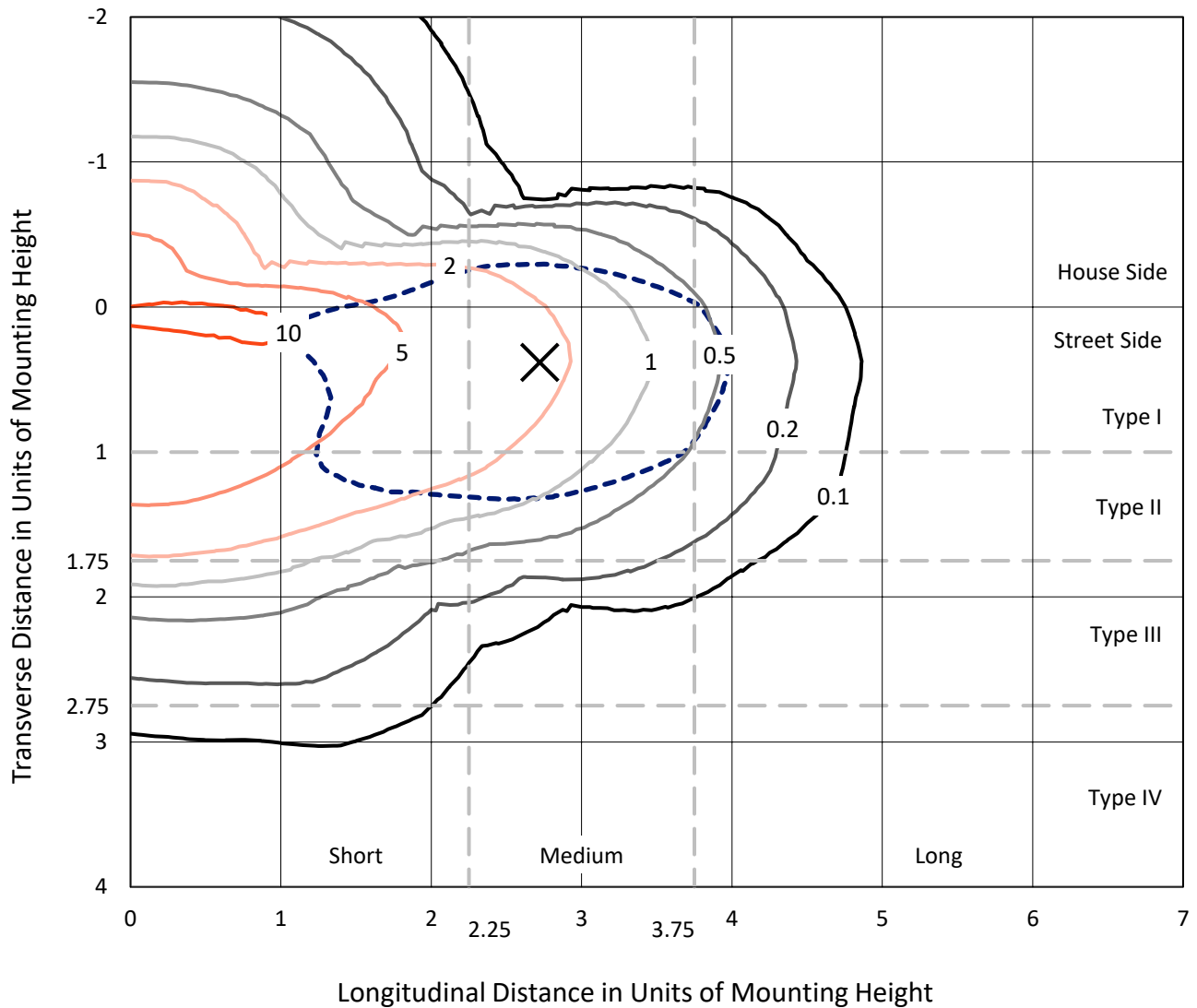
Lumens per Lamp: N/A  
Luminaire Lumens: 42752 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

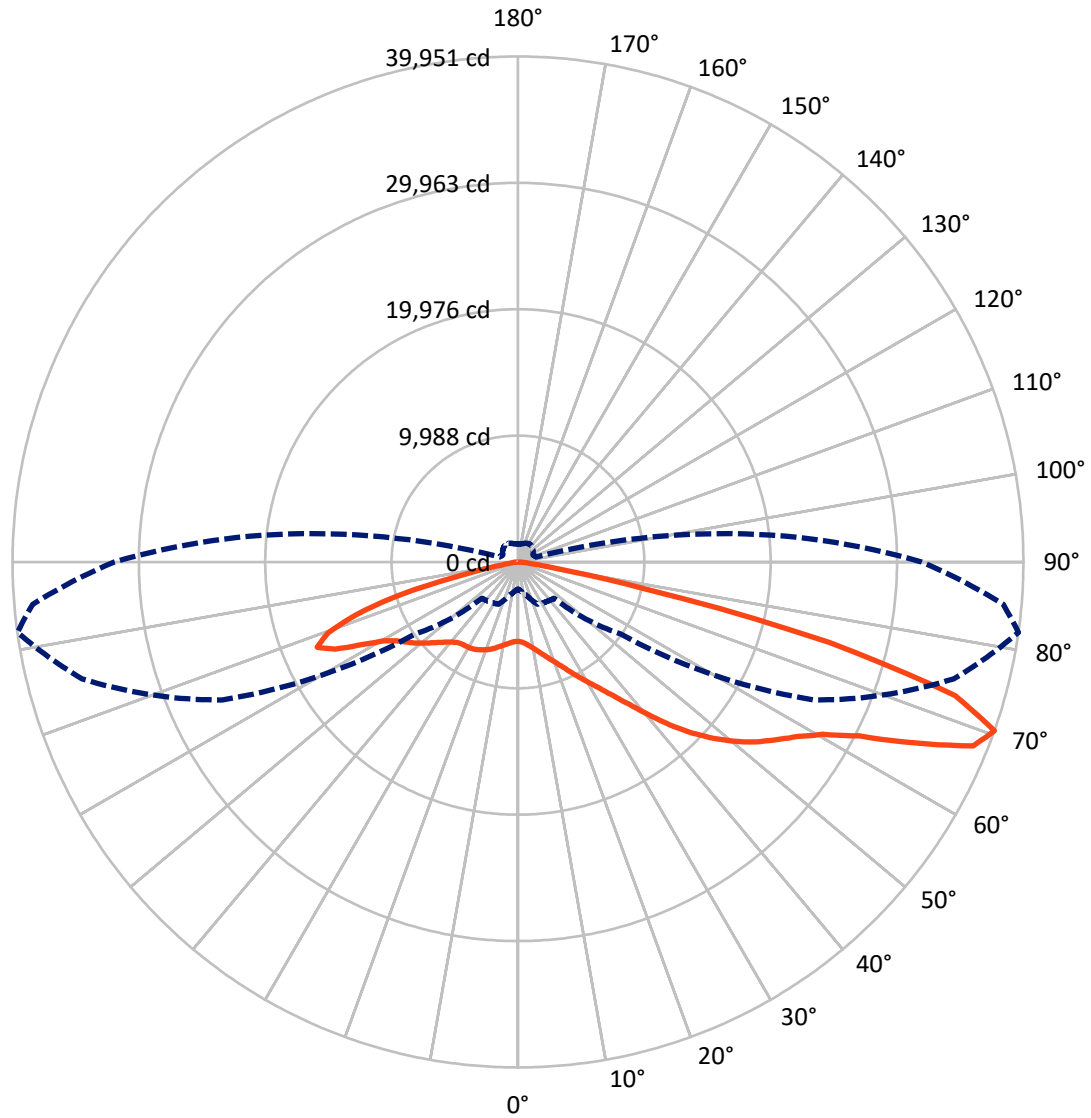
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10539.4	0.0	10539.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	32212.6	0.0	32212.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	42752.0	0.0	42752.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.8	1.4
10°-20°	1700.3	4.0
20°-30°	2844.4	6.7
30°-40°	4443.7	10.4
40°-50°	7077.2	16.6
50°-60°	9848.7	23.0
60°-70°	10302.2	24.1
70°-80°	5384.5	12.6
80°-90°	559.1	1.3
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°	42752.0	100.0
0°-180°	42752.0	100.0

**Coefficient of Utilization**



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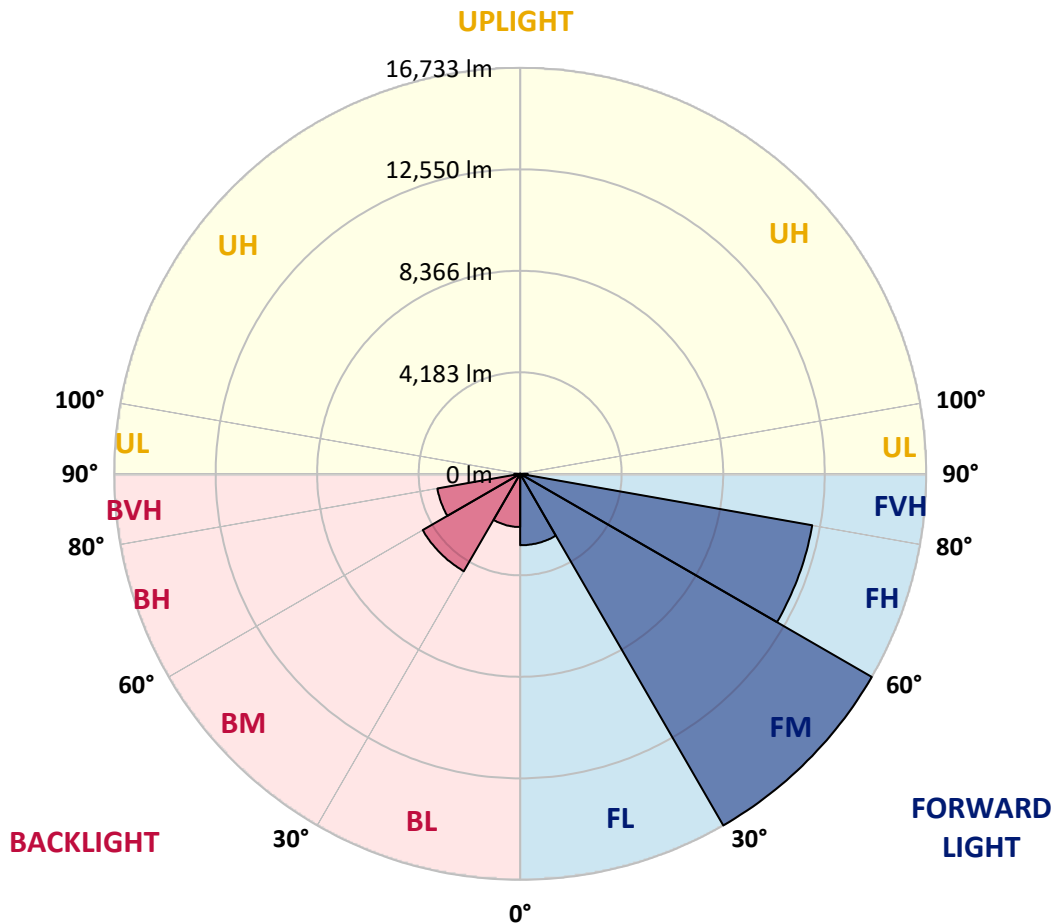
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2944.0	6.9			
FM (30°-60°)	16732.7	39.1			
FH (60°-80°)	12222.9	28.6			G5
FVH (80°-90°)	313.0	0.7			G3/500
BL (0°-30°)	2192.6	5.1	B3/2500		
BM (30°-60°)	4636.9	10.8	B3/5000		
BH (60°-80°)	3463.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	246.1	0.6			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°	82°
0°	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0
2.5°	6417.7	6454.0	6442.7	6431.3	6431.3	6415.4	6413.2	6390.5	6372.3	6342.8
5°	6499.4	6537.9	6533.4	6542.5	6572.0	6578.8	6585.6	6572.0	6535.7	6499.4
7.5°	6426.8	6469.9	6483.5	6537.9	6628.7	6710.3	6771.6	6796.5	6762.5	6710.3
10°	6181.8	6229.4	6277.1	6406.4	6567.4	6760.3	6923.6	7021.1	7014.3	6964.4
12.5°	5685.0	5734.9	5837.0	6088.8	6383.7	6724.0	7027.9	7232.1	7302.4	7266.1
15°	5288.0	5331.1	5408.2	5666.8	6050.2	6567.4	7066.5	7463.5	7642.7	7622.3
17.5°	5276.6	5294.8	5342.4	5464.9	5759.8	6322.4	7025.7	7690.4	8032.9	8030.6
20°	5476.3	5483.1	5510.3	5535.2	5703.1	6136.4	6921.3	7878.6	8470.7	8470.7
22.5°	5753.0	5748.5	5775.7	5753.0	5834.7	6120.5	6855.5	8044.2	8958.5	8994.8
25°	6168.2	6145.5	6138.7	6086.5	6102.4	6268.0	6928.1	8232.5	9536.9	9611.8
27.5°	6721.7	6685.4	6660.4	6540.2	6499.4	6572.0	7150.4	8459.4	10181.2	10310.5
30°	7443.1	7377.3	7341.0	7132.3	6984.8	6996.2	7486.2	8761.1	10855.0	11063.7
32.5°	8427.6	8325.5	8228.0	7885.4	7615.5	7527.0	7919.5	9178.5	11585.4	11918.9
35°	9530.1	9448.5	9344.1	8815.5	8400.4	8196.2	8504.8	9761.5	12440.7	12969.2
37.5°	10591.8	10521.5	10571.4	9859.1	9323.7	9026.5	9271.5	10544.2	13495.5	14275.9
40°	11689.8	11635.3	11642.2	10961.6	10337.7	10004.3	10201.6	11526.5	14704.7	15829.9
42.5°	12883.0	12842.2	12706.1	12102.7	11401.7	11090.9	11272.4	12660.7	16002.3	17599.3
45°	14219.2	14194.3	14067.2	13375.3	12572.3	12222.9	12467.9	13913.0	17306.7	19264.4
47.5°	15373.9	15394.3	15378.4	14795.4	13962.9	13450.2	13742.8	15219.6	18520.4	20829.7
50°	15929.7	16036.3	16192.8	16011.4	15494.1	14972.4	15029.1	16480.9	19677.3	22297.5
52.5°	15639.3	15841.2	16267.7	16558.1	16757.7	16648.8	16496.8	17733.2	20766.2	23622.3
55°	14557.2	14840.8	15548.6	16249.6	17268.1	18059.9	18259.5	19121.5	21827.9	24788.3
57.5°	12585.9	13046.4	13681.6	15099.4	16814.4	18742.7	20314.8	21047.5	22953.1	26033.8
60°	9205.7	9822.8	10612.2	12722.0	15226.4	18377.4	22063.8	24005.7	24552.4	27646.7
62.5°	5891.4	6272.5	6998.4	8985.7	11864.5	16505.9	22599.2	27703.4	27263.3	30291.8
65°	4033.5	4278.5	4943.2	6059.3	7669.9	12286.4	21165.5	30475.6	31569.0	34484.1
67.5°	2931.0	3117.0	3684.1	4661.9	4997.6	7270.7	16424.2	30348.5	35754.5	38803.4
70°	2137.0	2268.5	2744.9	3684.1	3845.2	4044.8	9949.8	25797.8	35663.7	39951.3
72.5°	1583.4	1674.2	1994.0	2858.4	3112.4	2731.3	4925.0	18749.5	30645.7	36135.6
75°	1145.6	1213.7	1449.6	2186.9	2490.9	2080.3	2456.8	10957.1	21376.5	25419.0
77.5°	875.7	927.8	1082.1	1601.6	1994.0	1560.8	1524.5	5040.7	10135.8	10185.7
80°	703.2	737.3	821.2	1127.5	1529.0	1168.3	993.6	2034.9	3203.2	2710.9
82.5°	517.2	573.9	694.2	791.7	1093.4	805.3	605.7	1027.6	1218.2	1048.1
85°	294.9	333.5	419.7	567.1	698.7	492.3	347.1	456.0	567.1	465.1
87.5°	104.4	136.1	147.5	222.3	304.0	204.2	133.8	131.6	186.0	138.4
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°
6268.0	0°	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0	6268.0
6336.0	2.5°	6313.3	6302.0	6256.6	6195.4	6131.9	6070.6	6050.2	6007.1	5977.6	5961.7
6483.5	5°	6440.4	6404.1	6297.5	6161.4	6018.4	5864.2	5755.3	5655.5	5582.9	5514.8
6685.4	7.5°	6621.9	6558.4	6374.6	6136.4	5882.3	5626.0	5435.4	5290.2	5192.7	5129.2
6921.3	10°	6832.8	6735.3	6454.0	6097.8	5705.4	5337.9	5113.3	4988.5	4927.3	4893.2
7191.3	12.5°	7075.6	6937.2	6535.7	6009.4	5435.4	5015.7	4861.5	4825.2	4827.5	4829.7
7531.6	15°	7375.0	7182.2	6601.5	5816.5	5083.8	4768.5	4741.2	4800.2	4861.5	4891.0
7917.2	17.5°	7713.0	7440.8	6612.8	5498.9	4739.0	4609.7	4695.9	4822.9	4915.9	4956.8
8348.2	20°	8076.0	7704.0	6531.1	5049.8	4455.4	4480.4	4634.6	4798.0	4900.0	4952.2
8840.5	22.5°	8491.1	7985.3	6336.0	4577.9	4224.0	4339.7	4521.2	4680.0	4786.6	4838.8
9419.0	25°	8965.3	8300.6	6029.8	4180.9	4024.4	4180.9	4362.4	4494.0	4580.2	4627.8
10065.5	27.5°	9491.6	8629.5	5621.4	3865.6	3849.7	4017.6	4167.3	4269.4	4314.8	4351.1
10752.9	30°	10020.1	8929.0	5126.9	3627.4	3697.7	3856.5	3963.1	4008.5	4022.1	4028.9
11519.6	32.5°	10591.8	9187.6	4607.4	3430.0	3552.5	3700.0	3763.5	3783.9	3720.4	3677.3
12449.8	35°	11283.7	9464.4	4099.3	3273.5	3409.6	3536.7	3557.1	3538.9	3464.1	3375.6
13615.8	37.5°	12139.0	9809.2	3693.2	3162.3	3275.8	3359.7	3334.8	3330.2	3337.0	3232.7
15017.7	40°	13187.0	10258.3	3396.0	3076.1	3166.9	3185.0	3114.7	3153.3	3187.3	3028.5
16555.8	42.5°	14350.8	10800.5	3207.7	3017.2	3076.1	3033.0	2924.1	2967.3	2962.7	2754.0
18100.7	45°	15537.2	11390.3	3141.9	2974.1	2992.2	2906.0	2785.8	2797.1	2701.8	2513.5
19582.0	47.5°	16716.9	12023.3	3182.8	2937.8	2887.9	2790.3	2697.3	2647.4	2506.7	2366.1
21002.1	50°	17873.8	12687.9	3332.5	2865.2	2744.9	2688.2	2620.2	2531.7	2382.0	2261.7
22345.1	52.5°	18946.9	13357.2	3500.4	2744.9	2565.7	2599.7	2556.6	2454.6	2307.1	2184.6
23615.5	55°	19963.2	14026.4	3566.1	2579.3	2397.8	2522.6	2497.7	2309.4	2132.4	2032.6
24944.9	57.5°	21070.2	14831.7	3493.6	2368.4	2261.7	2434.1	2338.9	2130.2	2028.1	1953.2
26675.8	60°	22603.7	16095.3	3337.0	2107.5	2132.4	2302.6	2139.2	2053.0	1941.9	1857.9
29271.0	62.5°	25151.3	18452.3	3085.2	1848.9	1980.4	2107.5	2044.0	1957.8	1844.3	1762.7
33708.2	65°	28917.1	21728.1	2611.1	1647.0	1810.3	1916.9	1941.9	1855.7	1737.7	1651.5
37596.5	67.5°	32093.0	23783.4	1975.9	1479.1	1635.6	1762.7	1833.0	1749.0	1624.3	1540.3
38506.2	70°	31918.4	22290.7	1508.6	1313.5	1481.4	1610.7	1701.4	1635.6	1501.8	1422.4
34976.4	72.5°	28350.0	18647.4	1220.5	1145.6	1324.8	1451.9	1560.8	1510.8	1374.7	1297.6
25623.2	75°	20827.5	13236.9	975.5	975.5	1129.7	1286.3	1406.5	1374.7	1250.0	1195.5
10757.4	77.5°	8779.3	5553.4	764.5	809.9	939.2	1104.8	1254.5	1265.8	1157.0	1225.0
2844.7	80°	2334.3	1531.3	583.0	637.5	737.3	912.0	1091.2	1086.6	968.7	905.1
1057.1	82.5°	889.3	603.4	415.1	449.2	533.1	698.7	864.3	891.5	773.6	669.2
415.1	85°	342.5	258.6	256.3	270.0	310.8	462.8	653.3	676.0	583.0	494.5
115.7	87.5°	88.5	77.1	95.3	90.7	142.9	247.3	374.3	387.9	356.2	206.4
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>
6268.0
5979.9
5542.0
5142.8
4902.3
4834.3
4888.7
4965.8
4965.8
4852.4
4641.4
4364.7
4044.8
3690.9
3380.1
3239.5
3033.0
2751.7
2520.3
2366.1
2252.7
2186.9
2023.5
1946.4
1853.4
1762.7
1656.0
1542.6
1429.2
1297.6
1179.6
1111.6
841.6
669.2
510.4
294.9
0.0

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