

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: P942099

Luminaire Tested: **GALN-SB5D-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5D-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

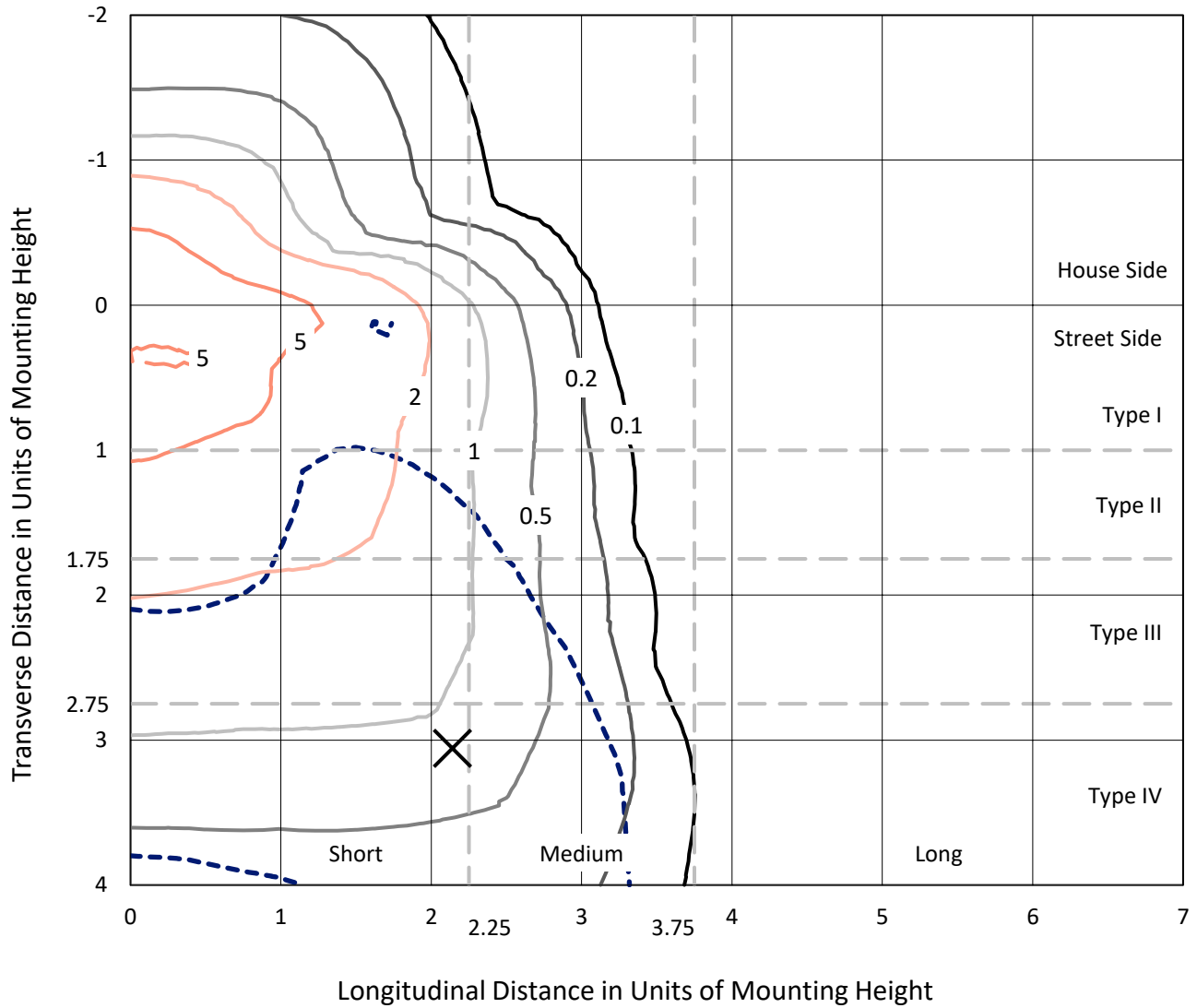
Lumens per Lamp: N/A  
Luminaire Lumens: 36816 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

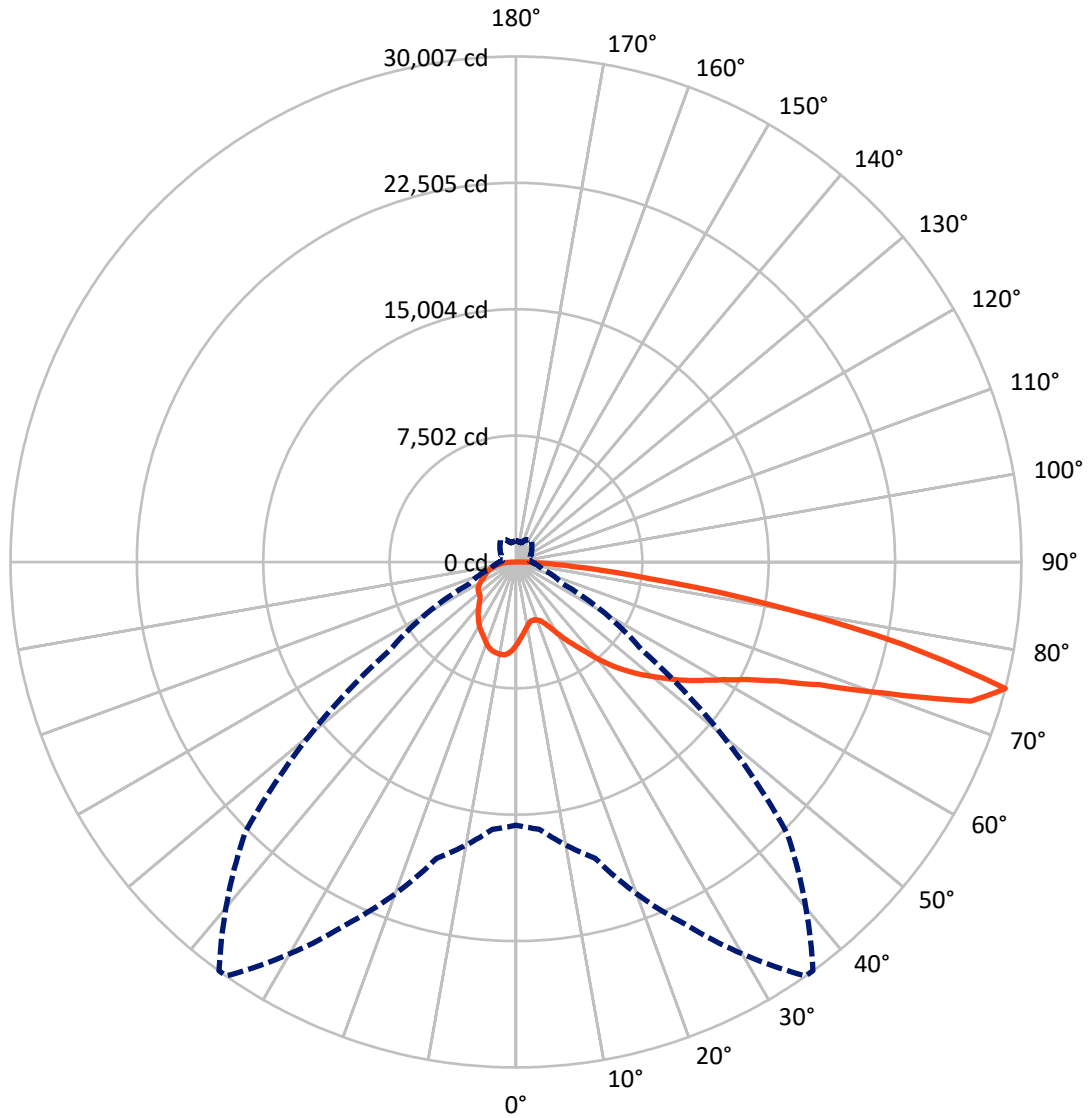
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8761.3	0.0	8761.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	28054.7	0.0	28054.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	36816.0	0.0	36816.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.5	1.3
10°-20°	1339.8	3.6
20°-30°	2249.9	6.1
30°-40°	3496.7	9.5
40°-50°	5190.0	14.1
50°-60°	7165.1	19.5
60°-70°	8692.8	23.6
70°-80°	7184.0	19.5
80°-90°	1033.3	2.8
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°	36816.0	100.0
0°-180°	36816.0	100.0

**Coefficient of Utilization**



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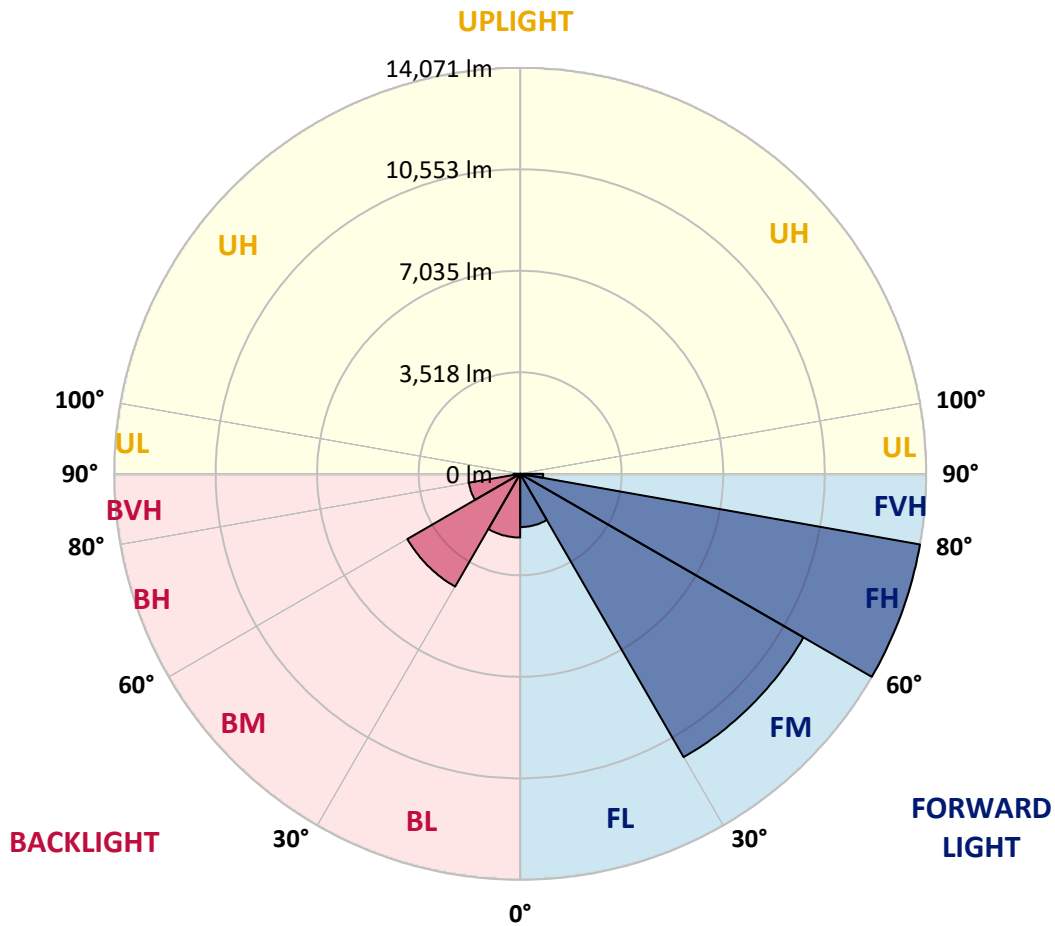
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.2	5.0			
FM (30°-60°)	11337.3	30.8			
FH (60°-80°)	14070.5	38.2			G5
FVH (80°-90°)	800.6	2.2			G5
BL (0°-30°)	2208.0	6.0	B3/2500		
BM (30°-60°)	4514.4	12.3	B3/5000		
BH (60°-80°)	1806.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	232.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0
2.5°	4523.9	4551.7	4563.7	4557.7	4587.5	4583.6	4625.4	4677.1	4748.8	4818.4
5°	4175.6	4205.4	4231.3	4255.2	4312.9	4330.8	4396.5	4496.0	4627.3	4760.7
7.5°	3851.1	3877.0	3916.8	3960.6	4058.1	4076.0	4185.5	4340.7	4523.9	4718.9
10°	3586.4	3612.3	3654.1	3703.9	3825.3	3847.2	3986.5	4193.5	4432.3	4679.1
12.5°	3473.0	3481.0	3504.8	3554.6	3660.1	3674.0	3827.3	4064.1	4342.7	4649.2
15°	3467.0	3482.9	3484.9	3510.8	3598.4	3604.4	3745.7	3980.5	4287.0	4643.3
17.5°	3526.7	3538.7	3520.8	3536.7	3610.3	3620.3	3731.7	3940.7	4269.1	4669.1
20°	3686.0	3695.9	3642.2	3620.3	3674.0	3682.0	3791.4	3966.6	4287.0	4722.9
22.5°	4024.3	4030.3	3898.9	3809.3	3813.3	3817.3	3912.8	4072.1	4356.7	4820.4
25°	4551.7	4547.7	4338.8	4165.6	4066.1	4044.2	4107.9	4243.2	4474.1	4949.8
27.5°	5168.7	5138.8	4929.9	4671.1	4454.2	4422.3	4408.4	4466.1	4641.3	5120.9
30°	5865.3	5837.4	5612.5	5274.2	4973.6	4921.9	4790.5	4760.7	4890.1	5353.8
32.5°	6629.5	6611.6	6342.9	5933.0	5530.9	5471.2	5250.3	5170.7	5272.2	5706.1
35°	7270.4	7254.5	7031.6	6609.6	6118.0	6044.4	5819.5	5729.9	5781.7	6157.9
37.5°	7849.6	7841.6	7650.5	7318.2	6810.7	6721.1	6468.3	6438.5	6428.5	6752.9
40°	8386.9	8367.0	8168.0	7992.9	7616.7	7535.1	7312.2	7286.3	7210.7	7485.4
42.5°	8982.0	8930.3	8641.7	8560.1	8458.6	8390.9	8257.6	8261.6	8094.4	8311.3
45°	9467.6	9437.8	9141.2	9093.5	9202.9	9175.1	9290.5	9320.4	8996.0	9177.1
47.5°	9989.1	9961.2	9710.5	9676.6	9973.2	9981.1	10389.1	10399.1	9875.7	10076.7
50°	10631.9	10592.1	10343.4	10385.2	10717.5	10747.4	11493.7	11426.1	10685.7	10990.2
52.5°	11055.9	11079.8	11026.0	11093.7	11547.5	11575.3	12580.4	12407.3	11487.8	11891.8
55°	11368.3	11416.1	11583.3	11738.5	12423.2	12451.0	13605.4	13340.7	12152.5	12727.7
57.5°	11770.4	11702.7	12015.2	12317.7	13255.1	13328.7	14602.5	14240.3	12741.6	13448.2
60°	12347.5	12299.8	12542.6	12990.4	14186.5	14304.0	15657.3	15050.3	13173.5	14019.4
62.5°	13517.8	13398.4	13436.2	13832.3	15360.8	15516.0	16847.5	15756.9	13388.5	14242.3
65°	15267.3	15062.3	14871.2	15145.8	17014.7	17167.9	18190.9	16312.1	13308.8	13810.4
67.5°	17470.5	17267.5	17032.6	17291.3	19450.8	19572.2	19848.8	16624.6	12681.9	12146.5
70°	19287.6	19211.9	19492.6	20557.4	23341.7	23345.7	21974.4	16365.9	10964.3	8611.8
72.5°	19046.7	19001.0	20479.7	23771.6	28245.7	28140.2	23986.6	14407.5	7385.8	3885.0
75°	15625.5	15922.0	18212.8	23713.9	30007.1	29993.2	22754.6	9159.2	3055.0	1610.1
77.5°	8379.0	8848.7	11824.1	17508.3	23425.3	23777.6	15997.7	3204.3	1311.6	1031.0
80°	2732.6	3142.6	4712.9	8914.4	15221.5	15155.8	6856.4	1257.8	897.6	730.4
82.5°	1160.3	1208.1	2105.7	4209.4	7811.8	7690.3	2183.3	722.5	630.9	499.6
85°	453.8	507.5	929.4	1946.5	3383.4	3309.8	788.1	358.2	404.0	326.4
87.5°	149.3	181.1	332.4	666.7	1052.8	1015.0	193.1	123.4	175.1	149.3
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°
4906.0	0°	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0	4906.0
4919.9	2.5°	4947.8	4979.6	5017.4	5073.2	5120.9	5160.7	5202.5	5228.4	5238.4	5268.2
4927.9	5°	4983.6	5053.3	5146.8	5238.4	5327.9	5381.7	5429.4	5453.3	5475.2	5491.1
4949.8	7.5°	5043.3	5132.9	5280.1	5399.6	5475.2	5519.0	5550.8	5542.9	5550.8	5554.8
4973.6	10°	5095.1	5220.4	5395.6	5509.0	5566.7	5568.7	5560.8	5532.9	5519.0	5521.0
5009.5	12.5°	5156.8	5296.1	5485.1	5580.7	5596.6	5552.8	5519.0	5471.2	5453.3	5445.3
5063.2	15°	5240.3	5399.6	5582.7	5618.5	5578.7	5523.0	5465.2	5387.6	5347.8	5316.0
5154.8	17.5°	5341.8	5517.0	5658.3	5632.4	5546.8	5455.3	5361.7	5244.3	5162.7	5128.9
5280.1	20°	5483.2	5640.4	5716.0	5602.6	5473.2	5333.9	5174.7	5031.4	4955.7	4921.9
5439.4	22.5°	5654.3	5805.6	5771.7	5550.8	5367.7	5144.8	4945.8	4840.3	4802.5	4778.6
5644.4	25°	5859.3	5988.7	5811.5	5475.2	5194.6	4894.0	4740.8	4707.0	4689.0	4671.1
5895.1	27.5°	6126.0	6195.7	5841.4	5363.7	4923.9	4627.3	4571.6	4577.6	4571.6	4541.8
6243.4	30°	6478.3	6464.4	5869.3	5182.6	4613.4	4386.5	4390.5	4416.4	4420.4	4400.5
6729.1	32.5°	6942.0	6800.7	5883.2	4947.8	4316.9	4175.6	4179.5	4207.4	4227.3	4193.5
7363.9	35°	7503.3	7192.8	5861.3	4653.2	4088.0	3974.5	3944.7	3952.6	3958.6	3926.8
8134.2	37.5°	8158.1	7632.6	5763.8	4326.8	3898.9	3777.5	3713.8	3660.1	3628.2	3598.4
9005.9	40°	8876.5	8112.3	5584.7	4008.4	3687.9	3568.5	3473.0	3371.5	3264.0	3224.2
9929.4	42.5°	9628.9	8605.9	5367.7	3703.9	3445.1	3347.6	3246.1	3098.8	2937.6	2856.0
10888.7	45°	10409.0	9111.4	5154.8	3403.3	3196.4	3154.6	3037.1	2860.0	2684.9	2581.4
11850.0	47.5°	11173.3	9589.1	4842.3	3100.8	2963.5	3009.3	2917.7	2754.5	2559.5	2396.3
12803.3	50°	11903.7	10036.9	4330.8	2794.3	2774.4	2965.5	2877.9	2643.1	2420.2	2211.2
13738.7	52.5°	12628.2	10399.1	3676.0	2515.7	2672.9	2953.5	2826.2	2567.4	2294.8	2075.8
14618.4	55°	13243.2	10586.2	3045.1	2276.9	2525.6	2852.0	2764.5	2477.9	2117.6	1884.8
15221.5	57.5°	13593.4	10434.9	2519.7	2042.0	2322.6	2684.9	2659.0	2286.8	1906.7	1727.5
15338.9	60°	13442.2	9821.9	2089.8	1837.0	2129.6	2503.7	2475.9	2097.7	1745.5	1576.3
14710.0	62.5°	12608.3	8653.6	1749.4	1657.9	1954.4	2318.6	2292.8	1952.4	1622.1	1458.9
13040.2	65°	10928.5	7039.5	1484.7	1508.6	1777.3	2095.7	2133.6	1831.0	1524.5	1365.3
10088.6	67.5°	8335.2	5099.0	1277.7	1379.2	1604.1	1876.8	1986.3	1743.5	1442.9	1291.7
5837.4	70°	4750.7	2895.8	1102.6	1253.9	1450.9	1673.8	1872.8	1673.8	1355.4	1230.0
2187.3	72.5°	1801.2	1329.5	953.3	1128.5	1303.6	1502.6	1747.4	1564.3	1253.9	1160.3
1130.5	75°	961.3	810.0	802.1	981.2	1134.4	1335.5	1590.2	1456.9	1178.2	1226.0
782.2	77.5°	654.8	573.2	670.7	839.9	949.4	1150.4	1423.0	1293.7	1021.0	1017.0
541.3	80°	453.8	406.0	545.3	676.7	734.4	967.3	1241.9	1110.6	831.9	776.2
334.4	82.5°	272.7	264.7	408.0	505.5	519.5	746.3	1029.0	931.4	680.7	593.1
199.0	85°	149.3	157.2	260.7	296.5	302.5	521.4	806.1	720.5	523.4	439.8
71.6	87.5°	41.8	53.7	95.5	117.4	145.3	270.7	479.7	427.9	262.7	183.1
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>
4906.0
5266.2
5495.1
5560.8
5525.0
5441.4
5325.9
5130.9
4917.9
4782.6
4671.1
4547.7
4410.4
4209.4
3948.7
3618.3
3242.1
2866.0
2573.4
2378.4
2193.3
2052.0
1864.9
1703.7
1552.4
1433.0
1339.4
1267.8
1214.1
1144.4
<i>1265.8</i>
937.4
742.4
597.1
443.8
183.1
0.0

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