

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: P942829

Luminaire Tested: **GALN-SB7A-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942829  
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-SB7A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

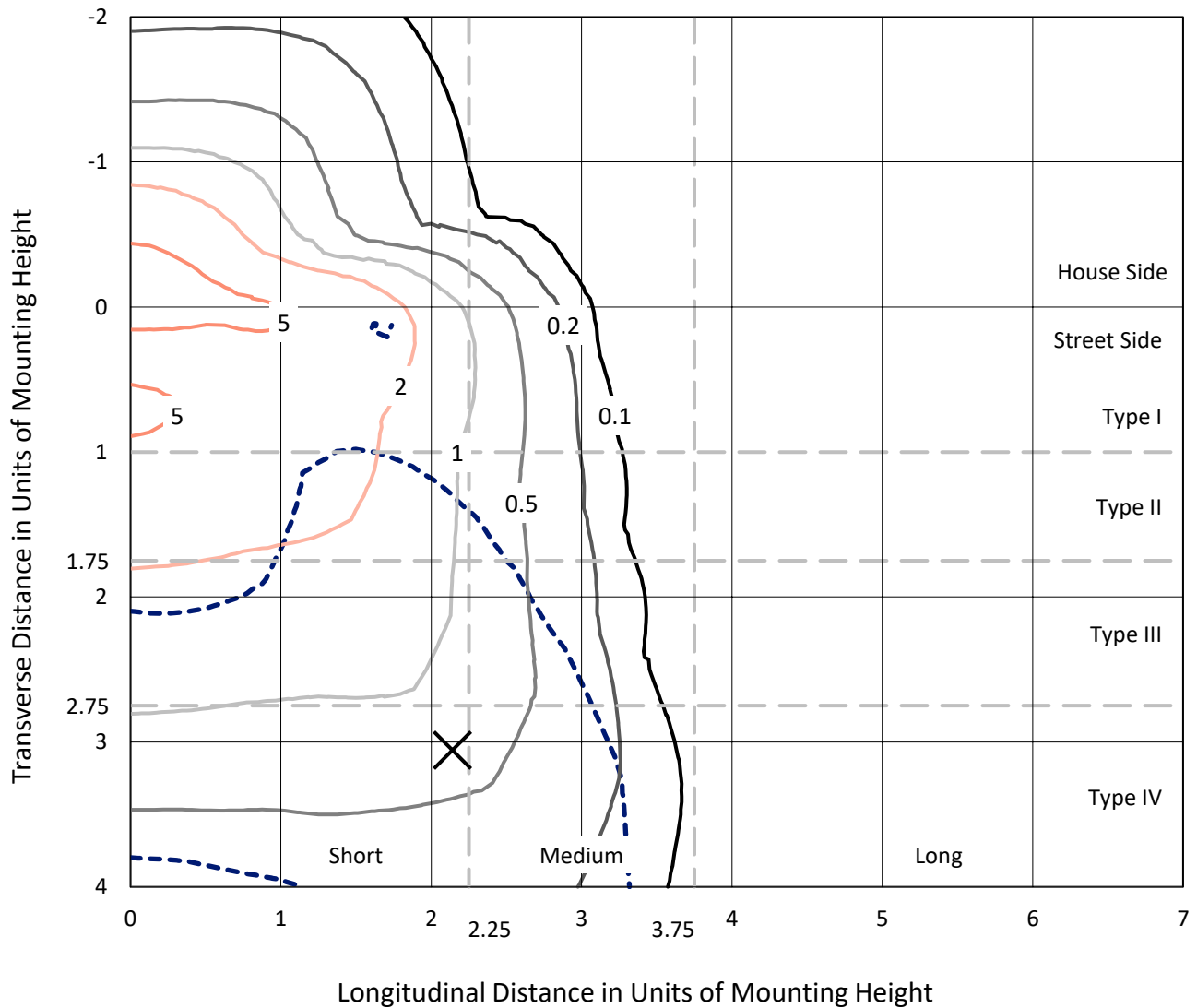
Lumens per Lamp: N/A  
Luminaire Lumens: 31530 lumens  
Efficiency: N/A  
Efficacy: 158.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

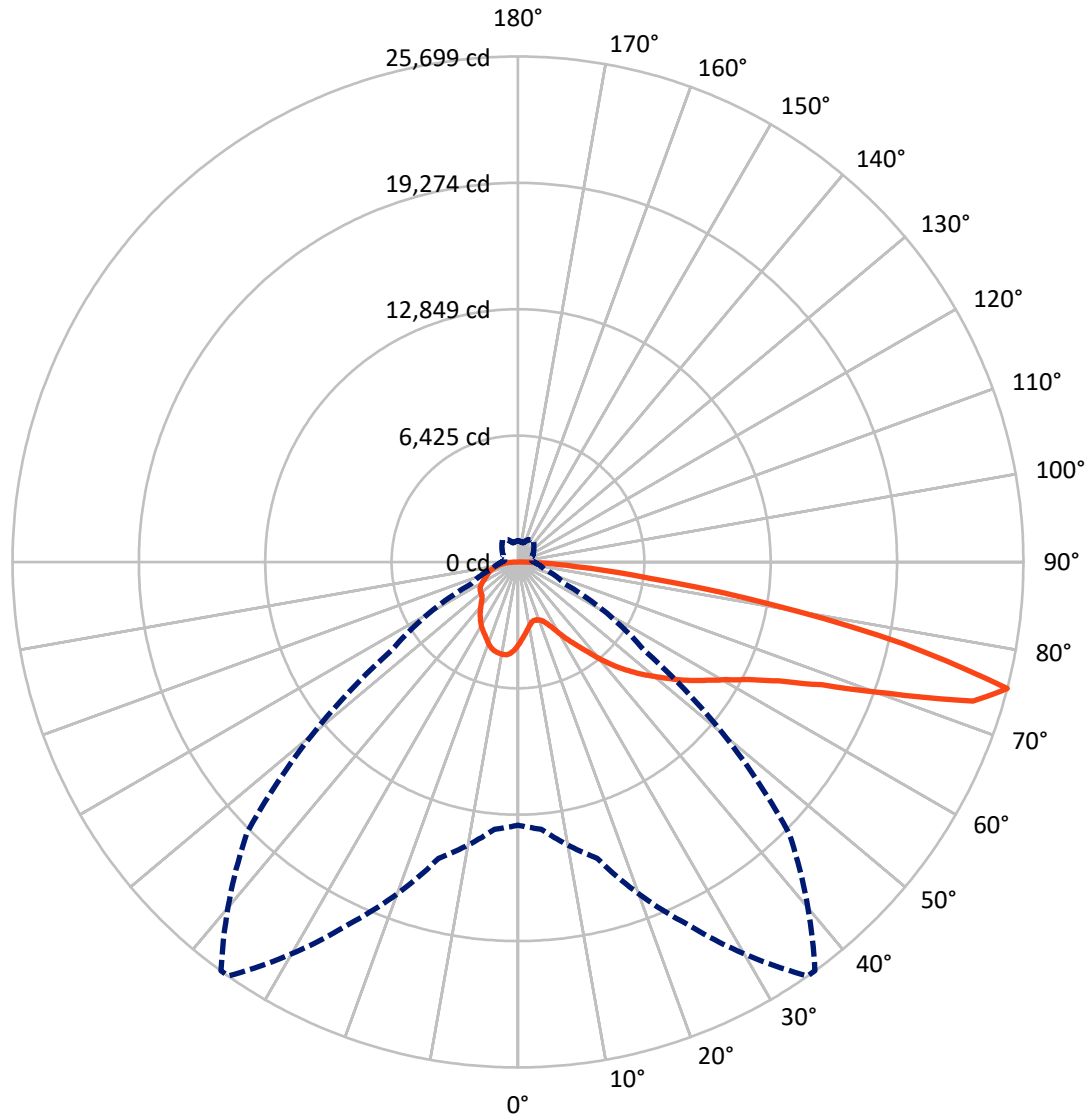
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	7503.3	0.0	7503.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	24026.7	0.0	24026.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	31530.0	0.0	31530.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.8	1.3
10°-20°	1147.4	3.6
20°-30°	1926.9	6.1
30°-40°	2994.6	9.5
40°-50°	4444.8	14.1
50°-60°	6136.3	19.5
60°-70°	7444.7	23.6
70°-80°	6152.5	19.5
80°-90°	884.9	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°	31530.0	100.0
0°-180°	31530.0	100.0

**Coefficient of Utilization**



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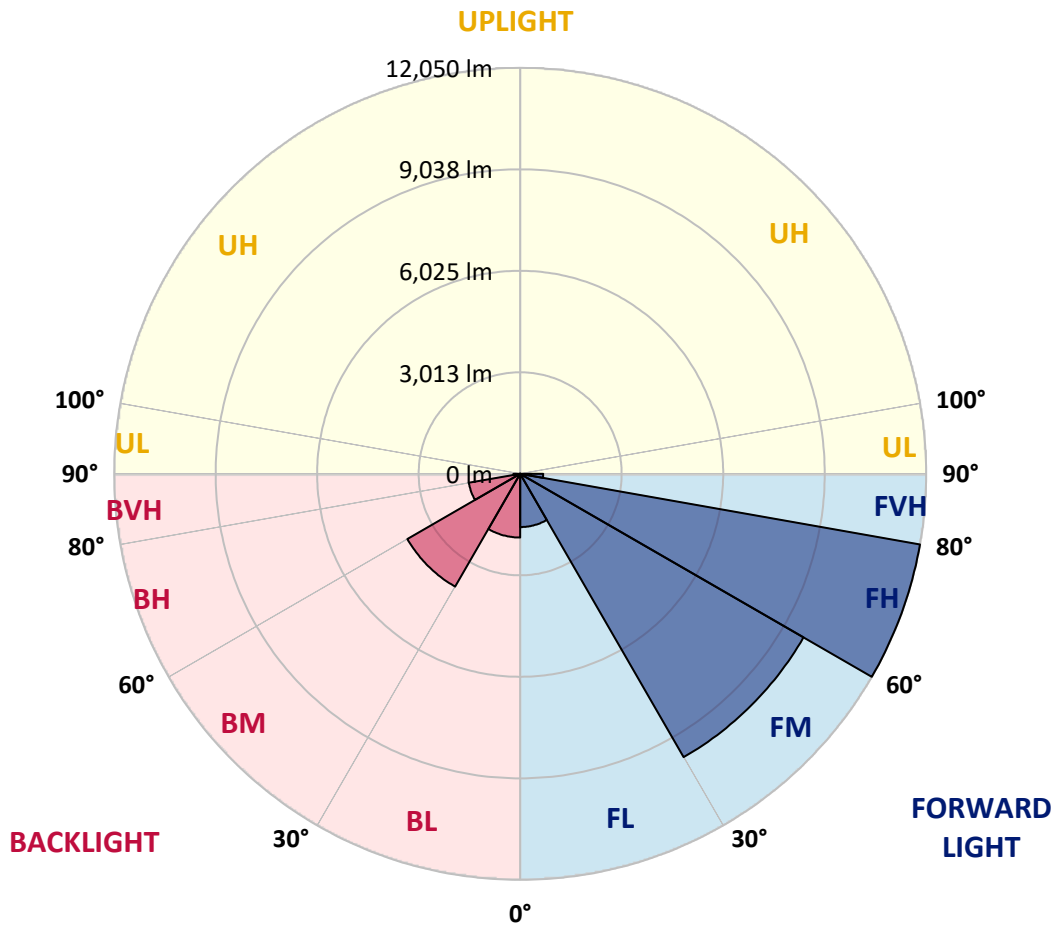
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.2	5.0			
FM (30°-60°)	9709.5	30.8			
FH (60°-80°)	12050.3	38.2			G5
FVH (80°-90°)	685.7	2.2			G4/750
BL (0°-30°)	1890.9	6.0	B3/2500		
BM (30°-60°)	3866.2	12.3	B3/5000		
BH (60°-80°)	1547.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	199.3	0.6			G2/225
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°	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6
2.5°	3874.3	3898.2	3908.4	3903.3	3928.9	3925.5	3961.3	4005.6	4066.9	4126.6
5°	3576.0	3601.6	3623.8	3644.2	3693.6	3709.0	3765.2	3850.5	3963.0	4077.2
7.5°	3298.2	3320.4	3354.5	3391.9	3475.5	3490.8	3584.6	3717.5	3874.3	4041.4
10°	3071.5	3093.7	3129.5	3172.1	3276.0	3294.8	3414.1	3591.4	3795.9	4007.3
12.5°	2974.3	2981.2	3001.6	3044.2	3134.6	3146.5	3277.7	3480.6	3719.2	3981.7
15°	2969.2	2982.9	2984.6	3006.7	3081.7	3086.8	3207.9	3409.0	3671.5	3976.6
17.5°	3020.4	3030.6	3015.3	3028.9	3092.0	3100.5	3195.9	3374.9	3656.1	3998.8
20°	3156.7	3165.3	3119.2	3100.5	3146.5	3153.3	3247.1	3397.1	3671.5	4044.8
22.5°	3446.5	3451.6	3339.1	3262.4	3265.8	3269.2	3351.0	3487.4	3731.1	4128.3
25°	3898.2	3894.8	3715.8	3567.5	3482.3	3463.5	3518.1	3634.0	3831.7	4239.1
27.5°	4426.6	4401.0	4222.0	4000.5	3814.7	3787.4	3775.5	3824.9	3974.9	4385.7
30°	5023.2	4999.3	4806.7	4516.9	4259.5	4215.2	4102.7	4077.2	4187.9	4585.1
32.5°	5677.7	5662.3	5432.2	5081.1	4736.8	4685.7	4496.5	4428.3	4515.2	4886.8
35°	6226.5	6212.9	6022.0	5660.6	5239.6	5176.6	4984.0	4907.2	4951.6	5273.7
37.5°	6722.5	6715.7	6552.1	6267.4	5832.8	5756.1	5539.6	5514.0	5505.5	5783.4
40°	7182.8	7165.7	6995.3	6845.3	6523.1	6453.2	6262.3	6240.2	6175.4	6410.6
42.5°	7692.4	7648.1	7400.9	7331.0	7244.1	7186.2	7072.0	7075.4	6932.2	7118.0
45°	8108.3	8082.7	7828.8	7787.8	7881.6	7857.7	7956.6	7982.2	7704.3	7859.4
47.5°	8554.9	8531.0	8316.2	8287.3	8541.2	8548.1	8897.5	8906.0	8457.7	8629.9
50°	9105.4	9071.3	8858.3	8894.1	9178.7	9204.3	9843.5	9785.5	9151.4	9412.2
52.5°	9468.5	9488.9	9442.9	9500.9	9889.5	9913.4	10774.1	10625.8	9838.4	10184.4
55°	9736.1	9777.0	9920.2	10053.1	10639.5	10663.3	11651.9	11425.2	10407.7	10900.3
57.5°	10080.4	10022.4	10290.1	10549.1	11352.0	11415.0	12505.9	12195.7	10912.2	11517.3
60°	10574.7	10533.8	10741.7	11125.3	12149.7	12250.2	13409.3	12889.4	11282.1	12006.5
62.5°	11576.9	11474.7	11507.1	11846.3	13155.3	13288.3	14428.6	13494.5	11466.2	12197.4
65°	13075.2	12899.6	12736.0	12971.2	14571.7	14703.0	15579.1	13970.1	11398.0	11827.5
67.5°	14962.1	14788.2	14587.1	14808.7	16658.1	16762.0	16999.0	14237.7	10861.1	10402.5
70°	16518.3	16453.5	16693.8	17605.8	19990.3	19993.8	18819.4	14016.1	9390.1	7375.4
72.5°	16312.0	16272.8	17539.3	20358.5	24190.2	24099.9	20542.6	12338.9	6325.4	3327.2
75°	13382.0	13636.0	15597.9	20309.1	25698.7	25686.8	19487.5	7844.1	2616.4	1378.9
77.5°	7175.9	7578.2	10126.4	14994.5	20061.9	20363.6	13700.7	2744.2	1123.3	882.9
80°	2340.3	2691.4	4036.2	7634.4	13036.0	12979.7	5872.0	1077.2	768.7	625.6
82.5°	993.7	1034.6	1803.4	3605.0	6690.2	6586.2	1869.8	618.7	540.3	427.8
85°	388.6	434.6	796.0	1667.0	2897.6	2834.6	675.0	306.8	346.0	279.5
87.5°	127.8	155.1	284.7	571.0	901.7	869.3	165.3	105.7	150.0	127.8
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°
4201.6	0°	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6	4201.6
4213.5	2.5°	4237.4	4264.7	4297.0	4344.8	4385.7	4419.8	4455.6	4477.7	4486.2	4511.8
4220.3	5°	4268.1	4327.7	4407.8	4486.2	4562.9	4609.0	4649.9	4670.3	4689.1	4702.7
4239.1	7.5°	4319.2	4395.9	4522.0	4624.3	4689.1	4726.6	4753.8	4747.0	4753.8	4757.3
4259.5	10°	4363.5	4470.9	4620.9	4718.0	4767.5	4769.2	4762.4	4738.5	4726.6	4728.3
4290.2	12.5°	4416.4	4535.7	4697.6	4779.4	4793.0	4755.5	4726.6	4685.7	4670.3	4663.5
4336.2	15°	4487.9	4624.3	4781.1	4811.8	4777.7	4730.0	4680.5	4614.1	4580.0	4552.7
4414.6	17.5°	4574.9	4724.9	4845.9	4823.7	4750.4	4672.0	4591.9	4491.4	4421.5	4392.5
4522.0	20°	4695.9	4830.5	4895.3	4798.2	4687.4	4568.1	4431.7	4309.0	4244.2	4215.2
4658.4	22.5°	4842.5	4972.0	4943.0	4753.8	4597.0	4406.1	4235.7	4145.3	4113.0	4092.5
4834.0	25°	5018.0	5128.8	4977.1	4689.1	4448.7	4191.4	4060.1	4031.1	4015.8	4000.5
5048.7	27.5°	5246.4	5306.1	5002.7	4593.6	4216.9	3963.0	3915.2	3920.3	3915.2	3889.7
5347.0	30°	5548.1	5536.2	5026.6	4438.5	3951.0	3756.7	3760.1	3782.3	3785.7	3768.6
5762.9	32.5°	5945.3	5824.3	5038.5	4237.4	3697.1	3576.0	3579.4	3603.3	3620.4	3591.4
6306.6	35°	6426.0	6160.1	5019.7	3985.1	3501.0	3403.9	3378.3	3385.1	3390.2	3363.0
6966.3	37.5°	6986.7	6536.7	4936.2	3705.6	3339.1	3235.1	3180.6	3134.6	3107.3	3081.7
7712.9	40°	7602.1	6947.5	4782.8	3432.9	3158.4	3056.2	2974.3	2887.4	2795.4	2761.3
8503.7	42.5°	8246.4	7370.2	4597.0	3172.1	2950.5	2867.0	2780.0	2653.9	2515.8	2446.0
9325.3	45°	8914.5	7803.2	4414.6	2914.7	2737.4	2701.6	2601.1	2449.4	2299.4	2210.7
10148.6	47.5°	9569.0	8212.3	4147.0	2655.6	2538.0	2577.2	2498.8	2359.0	2192.0	2052.2
10965.0	50°	10194.6	8595.8	3709.0	2393.1	2376.1	2539.7	2464.7	2263.6	2072.7	1893.7
11766.1	52.5°	10815.0	8906.0	3148.2	2154.5	2289.1	2529.5	2420.4	2198.8	1965.3	1777.8
12519.5	55°	11341.7	9066.2	2607.9	1949.9	2163.0	2442.5	2367.5	2122.1	1813.6	1614.2
13036.0	57.5°	11641.7	8936.7	2157.9	1748.8	1989.1	2299.4	2277.2	1958.5	1632.9	1479.5
13136.6	60°	11512.2	8411.7	1789.7	1573.3	1823.8	2144.3	2120.4	1796.5	1494.8	1350.0
12597.9	62.5°	10798.0	7411.2	1498.3	1419.8	1673.8	1985.7	1963.6	1672.1	1389.2	1249.4
11167.9	65°	9359.4	6028.8	1271.6	1292.0	1522.1	1794.8	1827.2	1568.1	1305.6	1169.3
8640.1	67.5°	7138.4	4366.9	1094.3	1181.2	1373.8	1607.3	1701.1	1493.1	1235.8	1106.2
4999.3	70°	4068.6	2480.0	944.3	1073.8	1242.6	1433.5	1603.9	1433.5	1160.8	1053.4
1873.2	72.5°	1542.6	1138.6	816.5	966.4	1116.4	1286.9	1496.5	1339.7	1073.8	993.7
968.2	75°	823.3	693.7	686.9	840.3	971.6	1143.7	1361.9	1247.7	1009.1	1050.0
669.9	77.5°	560.8	490.9	574.4	719.3	813.0	985.2	1218.7	1107.9	874.4	871.0
463.6	80°	388.6	347.7	467.0	579.5	629.0	828.4	1063.6	951.1	712.5	664.8
286.4	82.5°	233.5	226.7	349.4	432.9	444.9	639.2	881.2	797.7	582.9	507.9
170.4	85°	127.8	134.7	223.3	254.0	259.1	446.6	690.3	617.0	448.3	376.7
61.4	87.5°	35.8	46.0	81.8	100.6	124.4	231.8	410.8	366.5	225.0	156.8
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>
4201.6
4510.1
4706.1
4762.4
4731.7
4660.1
4561.2
4394.2
4211.8
4095.9
4000.5
3894.8
3777.2
3605.0
3381.7
3098.8
2776.6
2454.5
2203.9
2036.9
1878.4
1757.3
1597.1
1459.0
1329.5
1227.2
1147.1
1085.8
1039.7
980.1
<i>1084.1</i>
802.8
635.8
511.3
380.1
156.8
0.0

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