

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: P957093

Luminaire Tested: **GALN-SB9C-750-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-750-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

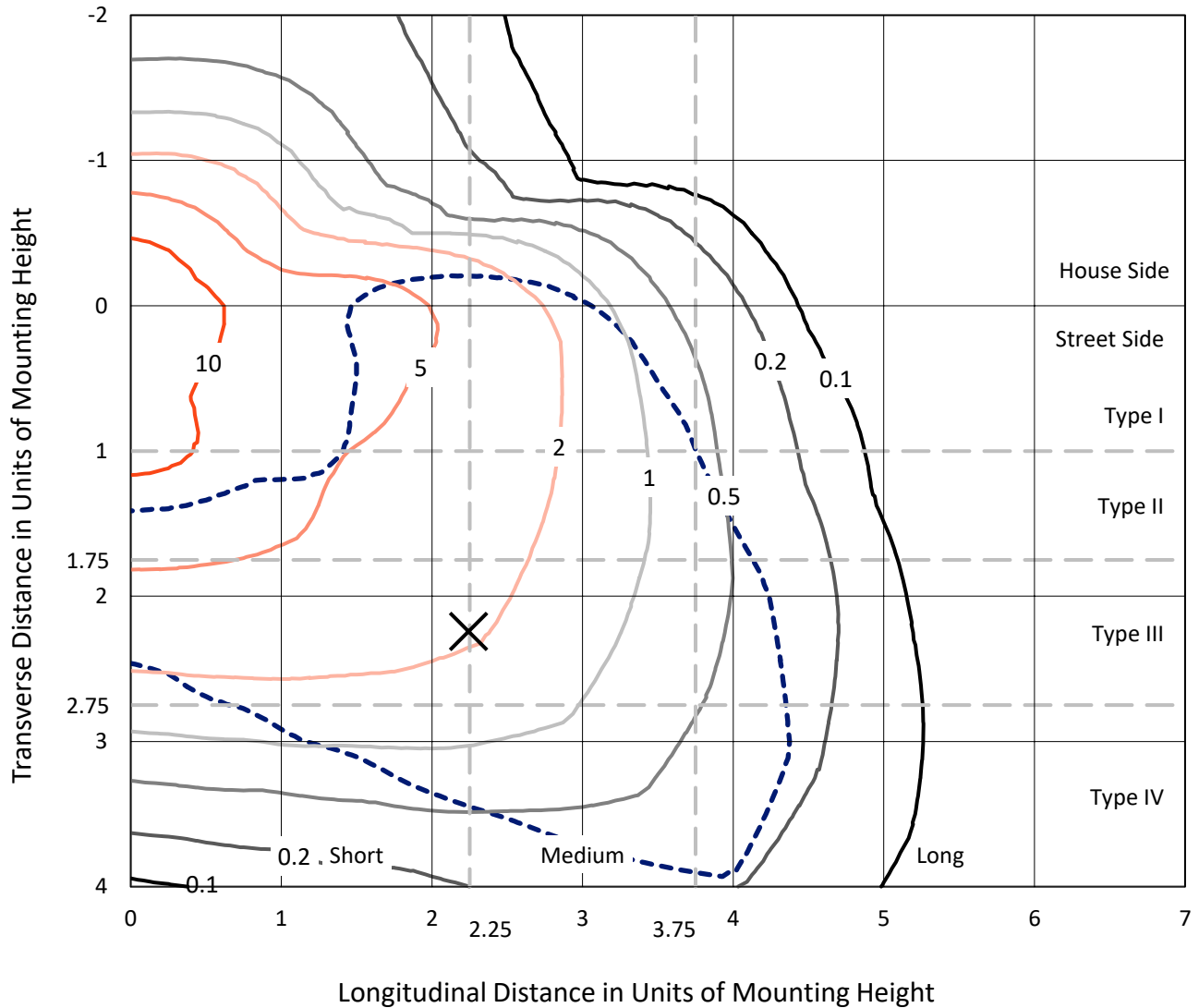
Lumens per Lamp: N/A  
Luminaire Lumens: 72027 lumens  
Efficiency: N/A  
Efficacy: 160.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

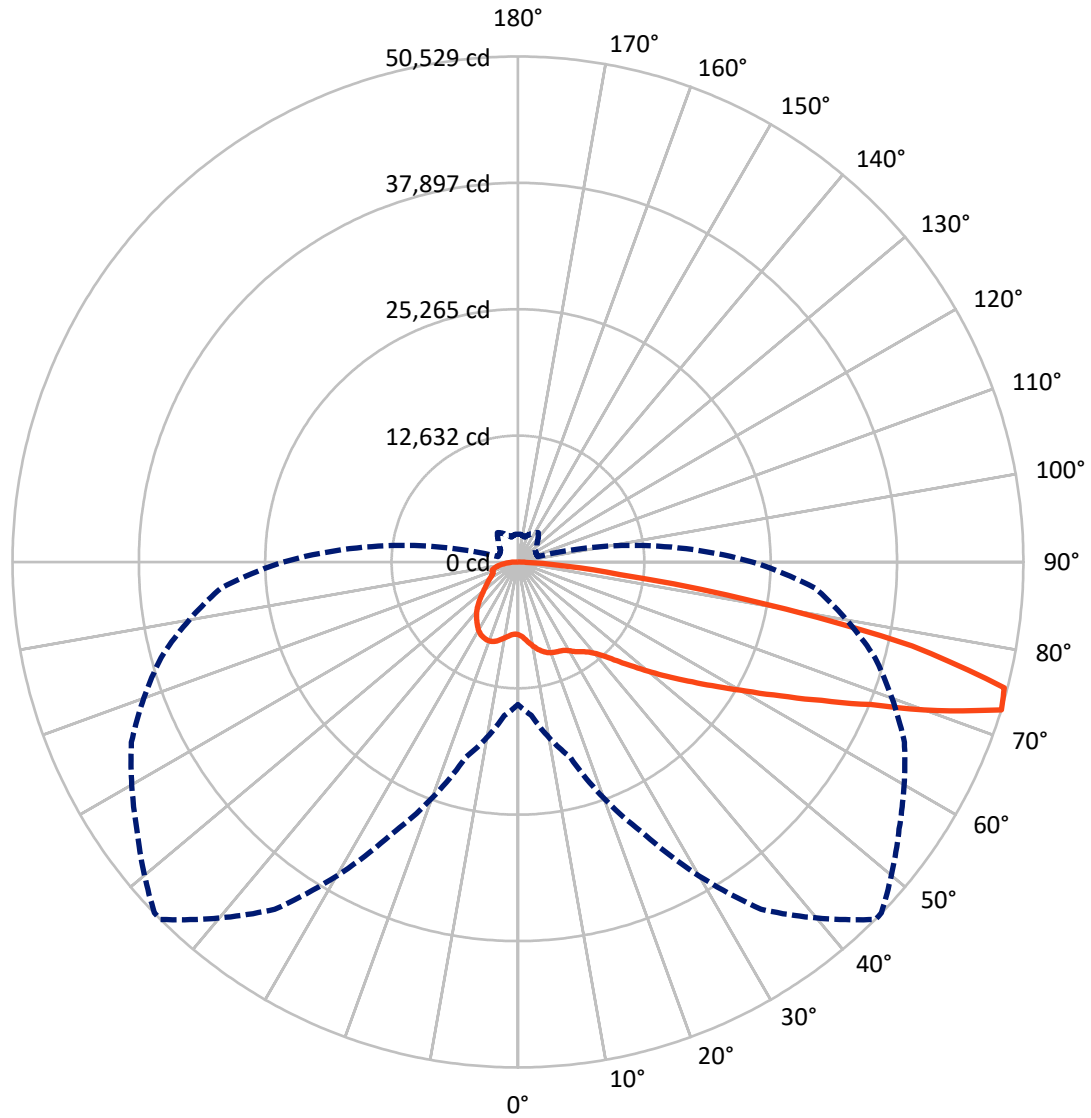
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16282.8	0.0	16282.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	55744.2	0.0	55744.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	72027.0	0.0	72027.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	739.5	1.0
10°-20°	2465.7	3.4
20°-30°	4289.3	6.0
30°-40°	6149.0	8.5
40°-50°	8658.1	12.0
50°-60°	13261.7	18.4
60°-70°	19211.5	26.7
70°-80°	15341.5	21.3
80°-90°	1910.7	2.7
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°	72027.0	100.0
0°-180°	72027.0	100.0



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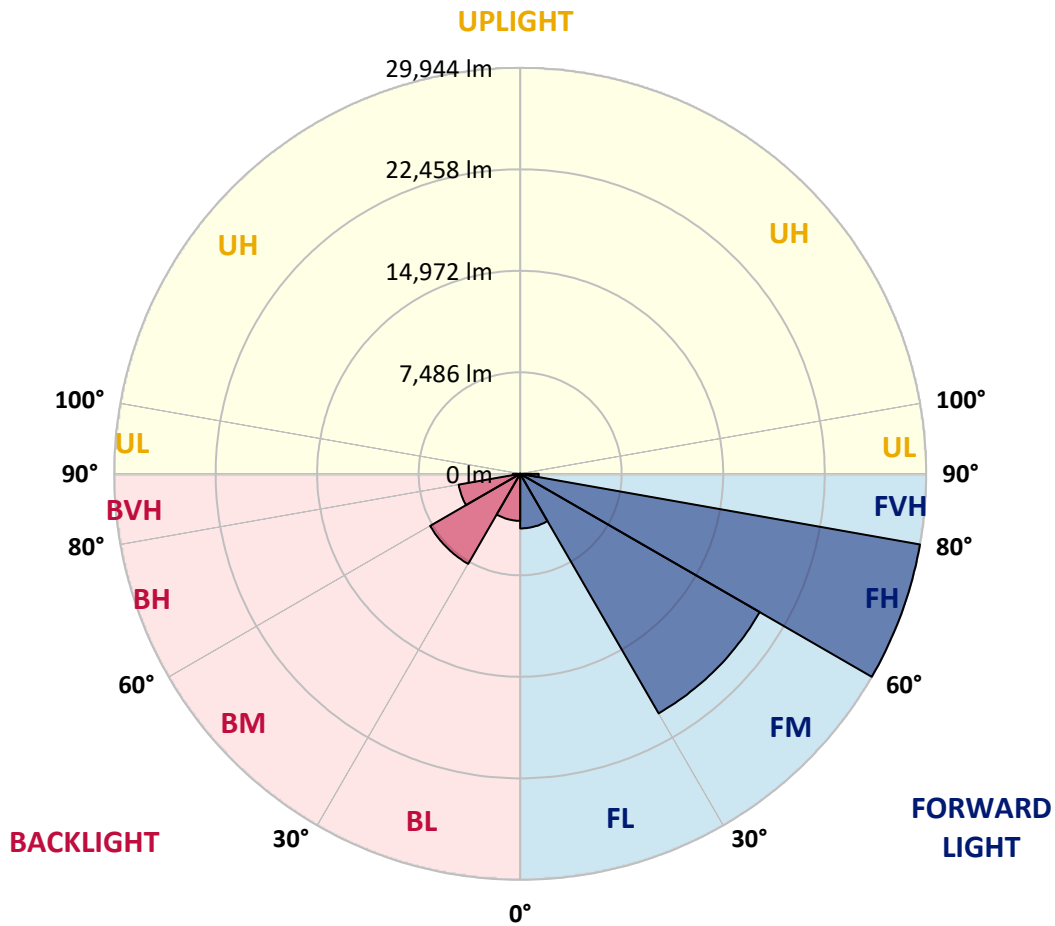
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4027.9	5.6			
FM (30°-60°)	20401.8	28.3			
FH (60°-80°)	29943.7	41.6			G5
FVH (80°-90°)	1370.8	1.9			G5
BL (0°-30°)	3466.7	4.8	B4/5000		
BM (30°-60°)	7666.9	10.6	B4/8500		
BH (60°-80°)	4609.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	539.9	0.7			G4/750
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1
2.5°	7550.7	7600.0	7554.5	7512.8	7493.8	7444.5	7440.7	7410.3	7391.3	7338.2
5°	8078.1	8142.6	8066.7	7983.2	7907.4	7785.9	7770.8	7683.5	7584.8	7471.0
7.5°	8673.8	8730.7	8643.5	8518.2	8385.4	8184.3	8180.6	8021.2	7865.6	7672.1
10°	9193.6	9269.5	9151.9	8981.2	8814.2	8586.5	8560.0	8377.9	8180.6	7930.1
12.5°	9652.7	9705.9	9592.0	9383.4	9189.8	8962.2	8928.0	8726.9	8506.9	8222.3
15°	10017.0	10085.3	9933.5	9709.7	9504.8	9280.9	9250.6	9068.4	8848.4	8548.6
17.5°	10256.0	10313.0	10157.4	9907.0	9709.7	9523.7	9501.0	9349.2	9155.7	8852.1
20°	10347.1	10407.8	10244.7	9990.4	9808.3	9664.1	9652.7	9542.7	9409.9	9132.9
22.5°	10438.2	10495.1	10282.6	10017.0	9857.6	9766.6	9762.8	9690.7	9637.6	9409.9
25°	10806.2	10821.4	10536.8	10153.6	9925.9	9846.3	9842.5	9838.7	9861.4	9683.1
27.5°	11124.9	11121.2	10878.3	10517.9	10165.0	9998.0	9994.2	10032.2	10104.3	9956.3
30°	11591.6	11549.9	11261.5	10885.9	10563.4	10305.4	10282.6	10248.5	10305.4	10187.7
32.5°	12582.0	12449.2	11982.5	11314.7	10893.5	10696.2	10665.8	10453.4	10476.1	10404.0
35°	14001.0	13826.5	13204.2	12126.6	11303.3	11022.5	11007.3	10737.9	10692.4	10627.9
37.5°	15689.5	15473.2	14748.5	13302.9	12009.0	11401.9	11379.2	11136.3	10950.4	10882.1
40°	17385.6	17112.4	16512.9	14737.1	13048.7	12035.6	11963.5	11595.4	11383.0	11269.1
42.5°	19032.3	18804.6	18292.4	16345.9	14331.1	12961.4	12802.0	12172.2	12012.8	11906.6
45°	20489.3	20284.4	19908.8	18064.8	15833.7	14221.1	14065.5	13037.3	12988.0	12988.0
47.5°	21673.2	21627.6	21229.2	19817.7	17605.6	15655.4	15386.0	14240.1	14372.9	14577.8
50°	22986.0	22860.8	22435.8	21544.1	19688.7	17298.3	17078.2	15716.1	16213.1	16774.7
52.5°	24192.6	24260.9	23786.6	23342.7	22041.2	19131.0	18743.9	17457.7	18531.5	19461.1
55°	25433.3	25437.1	25304.3	25243.6	24507.5	21157.1	20732.2	19552.1	21259.6	22413.0
57.5°	26598.2	26605.8	26803.1	27338.1	27368.4	23494.4	23012.5	22124.7	24291.2	25467.5
60°	27637.8	27690.9	28229.7	29481.9	29884.1	26173.2	25717.9	25163.9	27425.3	28609.2
62.5°	27986.9	28180.4	29379.4	31159.0	32369.3	29459.1	29011.4	28681.3	30718.8	31819.2
65°	27395.0	27838.9	30157.3	32543.9	34926.7	33363.5	32919.5	32559.1	34141.3	35177.1
67.5°	25941.8	26514.7	30111.7	33997.1	38030.5	38060.8	37647.2	36801.1	37810.4	38208.8
70°	22113.3	22970.8	27459.5	34539.7	41593.3	44484.6	44086.2	41908.3	41471.9	39544.4
72.5°	14247.7	15401.1	20219.9	30073.8	42386.3	50529.0	50506.2	46518.4	42629.2	36949.1
75°	5198.2	5904.0	9394.7	18876.7	35579.3	50221.6	50369.6	45729.1	38914.5	28540.9
77.5°	1893.4	2071.7	3065.8	7254.7	21881.8	40295.7	40603.0	36558.3	27698.5	14323.6
80°	994.1	1092.8	1570.8	2815.4	9375.8	23930.8	24412.7	21726.3	13018.3	4314.1
82.5°	550.2	595.7	880.3	1529.1	4223.1	10233.3	10521.6	8582.8	4579.7	1828.9
85°	296.0	314.9	413.6	834.8	2064.1	3547.7	3627.4	2565.0	1825.1	1073.8
87.5°	87.3	106.2	136.6	265.6	808.2	796.8	815.8	508.4	720.9	542.6
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°
7266.1	0°	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1	7266.1
7323.0	2.5°	7300.3	7288.9	7247.2	7228.2	7205.4	7201.6	7220.6	7224.4	7228.2	7232.0
7406.5	5°	7368.6	7330.6	7292.7	7269.9	7277.5	7281.3	7319.2	7345.8	7364.8	7380.0
7562.1	7.5°	7501.4	7471.0	7406.5	7402.7	7414.1	7448.2	7497.6	7558.3	7592.4	7619.0
7763.2	10°	7698.7	7641.8	7565.9	7577.3	7600.0	7649.3	7751.8	7801.1	7858.0	7907.4
8009.8	12.5°	7899.8	7850.4	7763.2	7770.8	7808.7	7896.0	7994.6	8055.3	8093.3	8131.2
8275.4	15°	8161.6	8074.3	7979.5	7979.5	8047.8	8142.6	8188.1	8237.5	8260.2	8302.0
8560.0	17.5°	8431.0	8317.1	8191.9	8184.3	8267.8	8313.4	8339.9	8347.5	8355.1	8400.6
8837.0	20°	8700.4	8575.2	8396.8	8381.7	8400.6	8393.0	8389.2	8381.7	8393.0	8450.0
9121.5	22.5°	8966.0	8821.8	8575.2	8506.9	8453.7	8381.7	8377.9	8374.1	8381.7	8438.6
9428.9	25°	9277.1	9102.6	8772.5	8567.6	8389.2	8290.6	8302.0	8305.8	8313.4	8358.9
9747.6	27.5°	9614.8	9421.3	8954.6	8548.6	8226.1	8157.8	8138.8	8150.2	8176.8	8248.9
10066.3	30°	9952.5	9724.8	9121.5	8472.7	8021.2	7926.3	7865.6	7892.2	7975.7	8047.8
10343.3	32.5°	10259.8	10032.2	9254.3	8305.8	7759.4	7611.4	7531.7	7565.9	7649.3	7675.9
10650.7	35°	10620.3	10362.3	9311.3	8040.2	7474.8	7247.2	7140.9	7091.6	7133.3	7106.8
11011.1	37.5°	11022.5	10753.1	9303.7	7691.1	7140.9	6879.1	6731.1	6545.2	6457.9	6366.9
11542.3	40°	11618.2	11231.2	9212.6	7269.9	6727.3	6488.3	6222.7	5907.8	5710.5	5532.1
12399.8	42.5°	12430.2	11895.2	9045.7	6807.0	6260.6	6036.8	5676.3	5308.3	4997.1	4701.2
13701.3	45°	13640.6	12764.1	8837.0	6313.7	5756.0	5535.9	5145.1	4731.5	4378.6	3999.2
15549.1	47.5°	15386.0	13932.7	8639.7	5752.2	5224.8	5023.7	4670.8	4287.6	3870.2	3502.2
18220.3	50°	17784.0	15609.8	8457.5	5205.8	4701.2	4549.4	4268.6	3877.8	3456.6	3160.7
21350.6	52.5°	20834.6	17890.2	8381.7	4678.4	4211.7	4154.8	3930.9	3566.7	3168.3	2917.8
25000.8	55°	24336.8	20618.3	8381.7	4173.8	3782.9	3801.9	3646.3	3308.6	2963.4	2739.5
28764.7	57.5°	27911.0	23380.6	8229.9	3707.1	3418.7	3498.4	3399.7	3103.8	2792.6	2561.2
32722.2	60°	31204.5	25695.1	7615.2	3282.1	3096.2	3221.4	3156.9	2902.7	2523.2	2329.7
36030.9	62.5°	33735.3	27000.4	6431.4	2944.4	2830.6	2974.7	2940.6	2637.1	2473.9	2394.2
38747.6	65°	35002.6	26787.9	4917.4	2644.6	2606.7	2830.6	2758.5	2747.1	2618.1	2527.0
39631.7	67.5°	34224.8	24959.0	3566.7	2424.6	2477.7	2697.8	2974.7	3020.3	2781.2	2602.9
37142.6	70°	30813.7	21650.4	2656.0	2215.9	2314.5	2701.6	3392.1	3160.7	2728.1	2519.4
29789.2	72.5°	23441.3	16144.8	2060.3	1995.8	2102.1	2720.5	3578.0	3096.2	2576.3	2785.0
18558.0	75°	13405.3	8863.5	1654.3	1726.4	1836.5	2542.2	3483.2	2929.2	2458.7	2557.4
7353.4	77.5°	5110.9	3407.3	1366.0	1460.8	1476.0	2219.7	3331.4	2917.8	2341.1	2284.2
2204.5	80°	1771.9	1331.8	1130.7	1161.1	1142.1	1973.0	3194.8	2538.4	1916.1	1715.0
910.6	82.5°	724.7	664.0	895.5	857.5	812.0	1532.9	2580.1	2075.5	1567.1	1384.9
440.1	85°	314.9	421.2	591.9	519.8	470.5	1062.4	2067.9	1756.8	1324.2	1142.1
144.2	87.5°	64.5	159.4	250.4	235.2	242.8	709.5	1468.4	1248.3	937.2	701.9
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>
7266.1
7247.2
7387.5
7626.6
7896.0
8146.4
8317.1
8415.8
8472.7
8476.5
8419.6
8320.9
8127.4
7770.8
7190.2
6423.8
5543.5
4674.6
3953.7
3460.4
3141.7
2898.9
2716.7
2523.2
2299.4
2367.7
2496.7
2572.5
2485.3
2762.3
2557.4
2083.1
1658.1
1369.7
1138.3
550.2
0.0

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