

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: P956436

Luminaire Tested: **GALN-SB9A-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

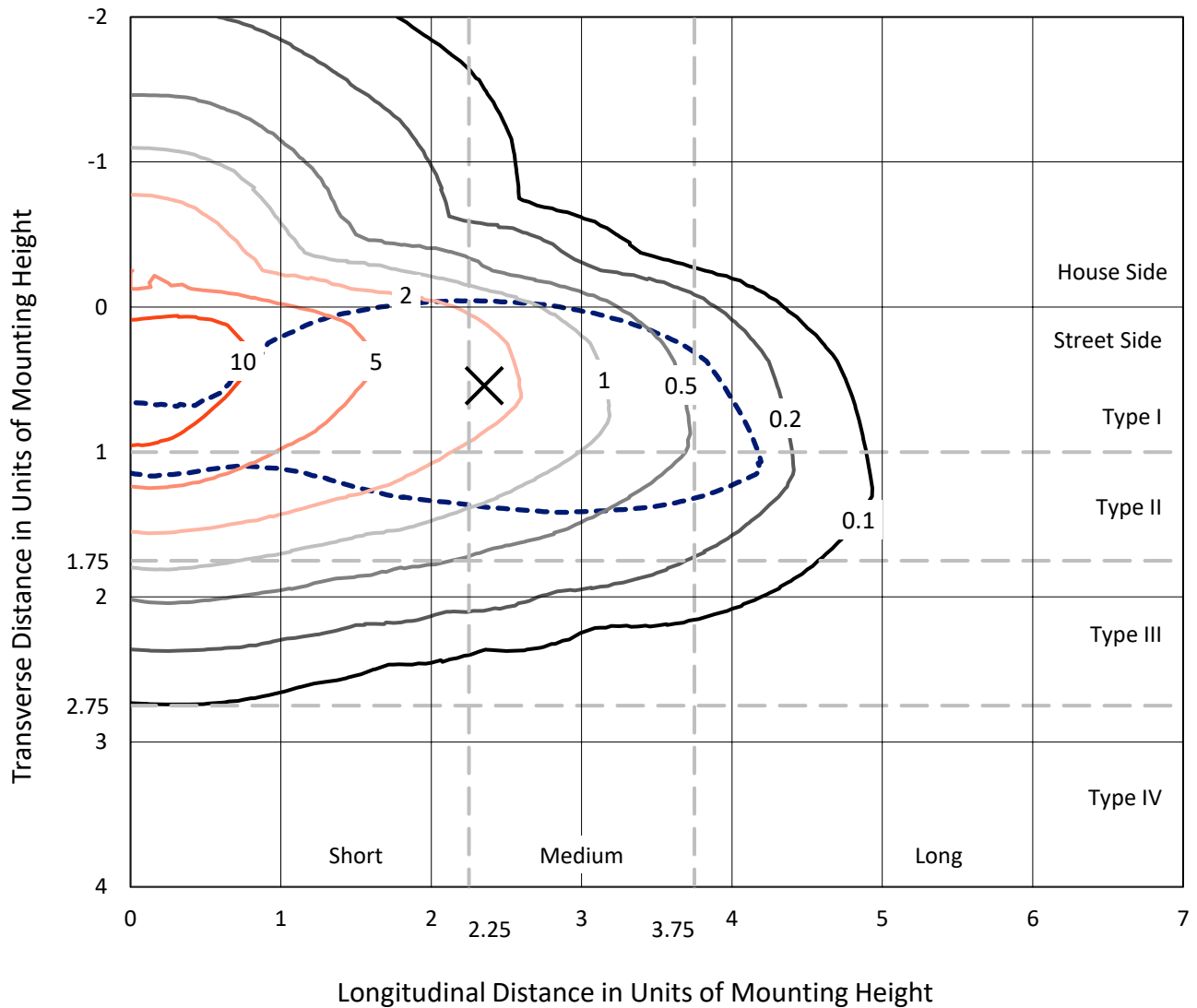
Lumens per Lamp: N/A  
Luminaire Lumens: 37394 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

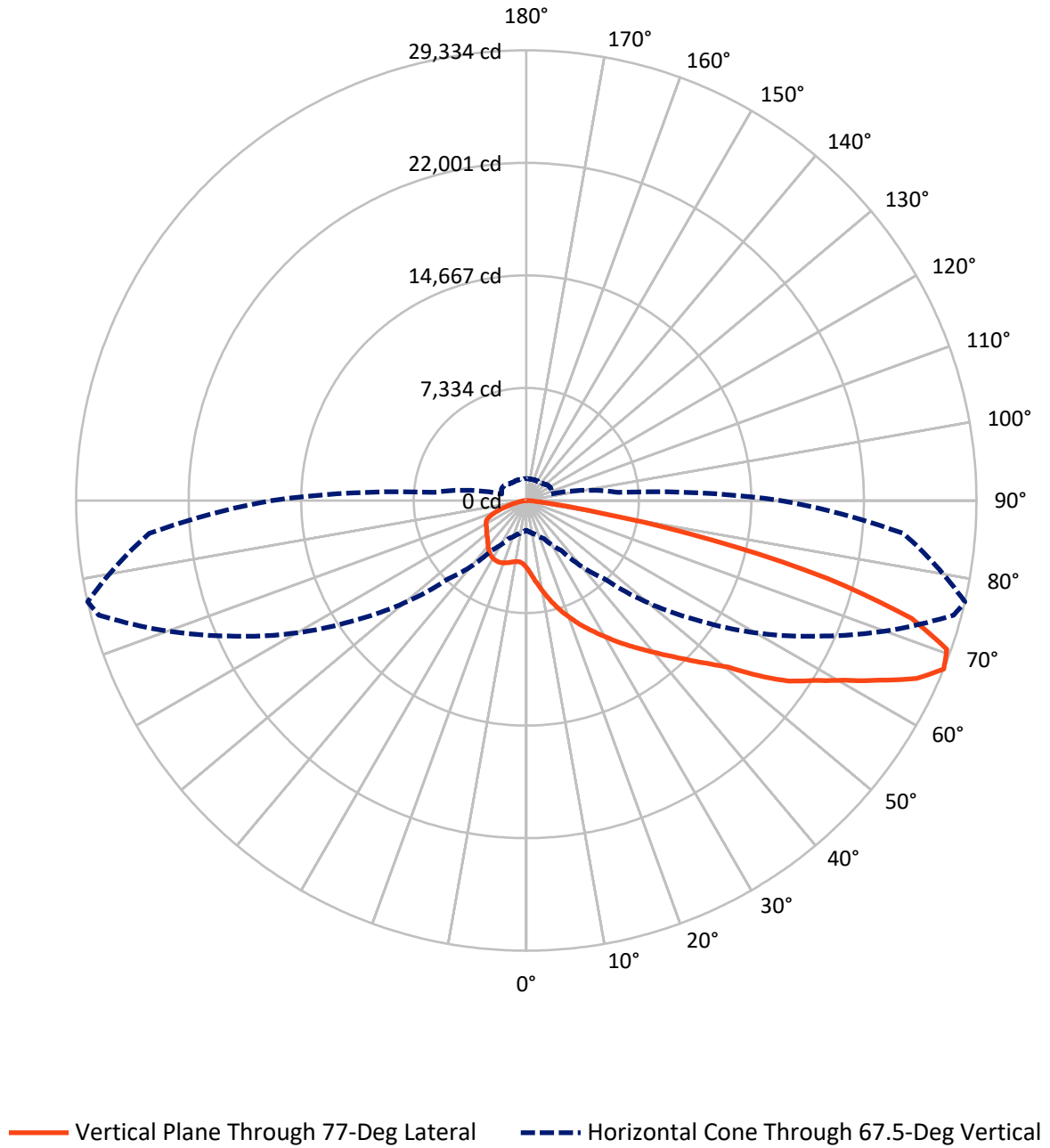
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7073.4	0.0	7073.4
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	30320.6	0.0	30320.6
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	37394.0	0.0	37394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.3	1.3
10°-20°	1689.5	4.5
20°-30°	3190.0	8.5
30°-40°	5139.0	13.7
40°-50°	7029.2	18.8
50°-60°	7929.0	21.2
60°-70°	7400.8	19.8
70°-80°	4056.9	10.8
80°-90°	489.4	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°	37394.0	100.0
0°-180°	37394.0	100.0

**Coefficient of Utilization**



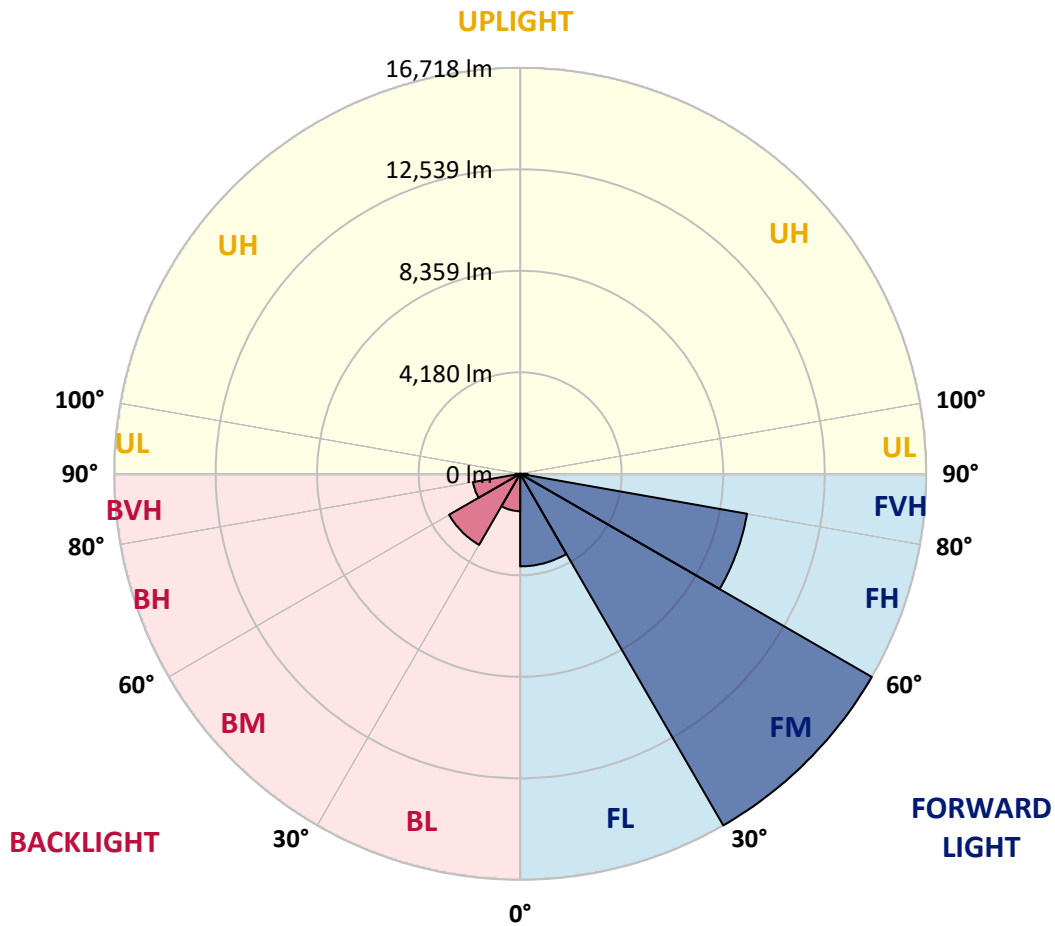
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3811.9	10.2			
FM (30°-60°)	16718.4	44.7			
FH (60°-80°)	9484.2	25.4			G4/12000
FVH (80°-90°)	306.0	0.8			G3/500
BL (0°-30°)	1537.9	4.1	B3/2500		
BM (30°-60°)	3378.8	9.0	B3/5000		
BH (60°-80°)	1973.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	183.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5
2.5°	5493.5	5532.1	5483.9	5483.9	5321.7	5236.8	5074.7	4951.1	4729.1	4690.5
5°	6493.4	6541.6	6474.1	6445.1	6254.0	6078.4	5806.2	5537.9	5142.2	5101.7
7.5°	7267.4	7329.2	7269.4	7238.5	7068.6	6871.7	6553.2	6178.8	5620.9	5541.8
10°	7898.6	7908.3	7889.0	7900.5	7767.4	7605.2	7279.0	6842.8	6145.9	6037.8
12.5°	8255.7	8300.1	8338.7	8408.2	8385.0	8284.7	7991.3	7470.1	6701.9	6562.9
15°	8423.6	8500.9	8587.7	8747.9	8877.3	8902.4	8678.4	8143.8	7267.4	7099.5
17.5°	8483.5	8556.8	8693.9	8925.5	9203.5	9390.7	9290.3	8798.1	7827.2	7634.2
20°	8786.5	8807.8	8890.8	9110.8	9411.9	9722.7	9798.0	9427.4	8381.2	8163.1
22.5°	9435.1	9392.6	9415.8	9516.2	9732.4	10033.5	10205.3	9983.3	8950.6	8699.7
25°	10506.4	10382.9	10259.3	10143.5	10253.5	10423.4	10618.4	10539.2	9547.1	9228.6
27.5°	11859.5	11708.9	11436.8	11056.5	10923.3	10983.2	11070.0	11054.6	10099.1	9776.8
30°	13191.4	13015.7	12691.5	12141.3	11790.0	11631.7	11566.1	11521.7	10699.4	10355.8
32.5°	14255.0	14116.0	13797.5	13181.7	12672.1	12401.9	12183.8	12025.5	11326.8	10983.2
35°	15185.3	15056.0	14691.2	14019.5	13465.5	13177.9	12892.2	12554.4	11979.2	11631.7
37.5°	16034.7	15905.3	15405.4	14706.6	14148.8	13950.0	13695.2	13121.9	12633.5	12305.4
40°	16571.3	16542.3	16075.2	15283.8	14704.7	14606.3	14521.3	13780.1	13359.3	13054.3
42.5°	16708.3	16772.0	16401.4	15750.9	15198.9	15119.7	15318.5	14525.2	14173.9	13882.4
45°	16378.2	16561.6	16318.4	15876.4	15550.2	15507.7	16025.0	15339.8	15075.3	14808.9
47.5°	15542.4	15853.2	15752.8	15691.1	15644.7	15828.1	16646.6	16204.5	16096.4	15864.8
50°	13855.4	14444.1	14619.8	15009.7	15457.5	16077.1	17212.1	17148.4	17289.3	17055.8
52.5°	10938.8	11749.5	12768.7	13745.4	14882.3	15994.1	17833.7	18503.5	19098.0	18970.6
55°	9029.8	9394.6	10178.3	11969.5	13766.6	15644.7	18113.5	19597.9	20893.1	20779.2
57.5°	7562.8	7889.0	8371.5	9867.5	12079.6	14851.4	18287.3	20265.8	22122.7	22111.1
60°	5989.6	6335.1	6829.3	7889.0	10108.8	13480.9	18248.7	21026.3	23692.0	23788.5
62.5°	4213.8	4594.0	5142.2	6130.5	8095.5	11705.1	17461.1	21576.4	25539.3	25801.8
65°	2769.9	3020.9	3433.9	4287.1	6032.1	9421.6	15957.4	21647.9	27515.8	27959.8
67.5°	1941.8	2038.4	2281.6	2744.8	3976.3	7225.0	13562.0	20908.6	28834.2	29334.1
70°	1515.3	1563.5	1687.0	1872.4	2497.8	4858.5	10392.5	18986.0	28552.4	29073.6
72.5°	1308.7	1355.0	1401.4	1424.5	1675.5	2999.6	7039.7	15874.4	25898.3	26251.5
75°	1187.1	1198.7	1237.3	1229.6	1277.8	1945.7	4063.2	11566.1	20433.7	20312.1
77.5°	997.9	1013.4	1077.1	1067.4	1135.0	1329.9	2109.8	7464.3	13247.4	12421.2
80°	845.5	853.2	922.7	911.1	986.4	963.2	1077.1	3804.5	5619.0	4760.0
82.5°	293.4	362.9	704.5	725.8	752.8	582.9	621.5	1551.9	1716.0	1314.5
85°	142.8	152.5	359.0	509.6	507.7	293.4	303.1	554.0	540.5	424.7
87.5°	23.2	29.0	42.5	198.8	158.3	77.2	104.2	108.1	112.0	96.5
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°
4387.5	0°	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5	4387.5
4543.8	2.5°	4435.7	4339.2	4136.5	3949.3	3802.6	3661.7	3582.6	3515.0	3476.4	3468.7
4756.2	5°	4555.4	4356.6	3987.9	3677.1	3474.5	3323.9	3244.8	3194.6	3169.5	3154.0
5041.8	7.5°	4727.2	4435.7	3910.7	3557.5	3345.1	3237.0	3196.5	3188.8	3186.9	3188.8
5387.4	10°	4964.6	4565.1	3903.0	3528.5	3350.9	3291.1	3289.2	3291.1	3298.8	3300.7
5763.8	12.5°	5221.3	4698.2	3933.9	3553.6	3424.3	3391.5	3385.7	3383.7	3389.5	3393.4
6144.0	15°	5501.2	4873.9	3986.0	3607.7	3505.3	3470.6	3464.8	3453.2	3451.3	3449.4
6543.6	17.5°	5788.8	5047.6	4043.9	3665.6	3557.5	3509.2	3488.0	3461.0	3439.7	3433.9
6956.7	20°	6080.3	5219.4	4084.4	3694.5	3561.3	3493.8	3451.3	3405.0	3368.3	3347.1
7373.6	22.5°	6391.1	5398.9	4109.5	3686.8	3526.6	3433.9	3356.7	3302.7	3246.7	3210.0
7794.4	25°	6694.1	5555.3	4107.6	3646.3	3459.0	3341.3	3242.8	3173.3	3096.1	3057.5
8228.7	27.5°	6985.6	5696.2	4059.3	3574.8	3362.5	3231.3	3113.5	3030.5	2955.2	2918.6
8666.9	30°	7286.7	5813.9	3984.1	3470.6	3248.6	3103.9	2974.5	2903.1	2835.5	2800.8
9130.1	32.5°	7585.9	5922.0	3877.9	3341.3	3117.4	2978.4	2851.0	2785.4	2744.8	2744.8
9628.1	35°	7902.5	5997.3	3737.0	3190.7	2978.4	2845.2	2744.8	2706.2	2702.4	2679.2
10155.1	37.5°	8236.4	6045.6	3565.2	3036.3	2841.3	2715.9	2685.0	2638.7	2600.1	2549.9
10734.2	40°	8587.7	6093.8	3358.7	2876.1	2696.6	2627.1	2613.6	2551.8	2441.8	2318.2
11390.5	42.5°	9014.3	6126.6	3144.4	2715.9	2544.1	2520.9	2540.2	2434.1	2258.4	2165.8
12181.9	45°	9508.5	6180.7	2947.5	2557.6	2387.7	2387.7	2468.8	2329.8	2185.1	2127.1
13085.2	47.5°	10149.3	6306.2	2764.1	2383.9	2243.0	2281.6	2310.5	2204.4	2123.3	2051.9
14185.5	50°	11075.8	6607.3	2575.0	2208.2	2132.9	2210.1	2169.6	2107.8	2013.3	1955.4
15934.3	52.5°	12226.3	6784.9	2407.0	2049.9	2038.4	2115.6	2057.7	1999.7	1928.3	1851.1
17260.4	55°	13009.9	6817.7	2266.1	1934.1	1974.7	1966.9	1945.7	1893.6	1855.0	1752.7
18569.1	57.5°	13886.3	6883.3	2150.3	1864.6	1934.1	1849.2	1841.5	1797.1	1746.9	1677.4
20165.4	60°	14934.4	6985.6	2049.9	1837.6	1899.4	1772.0	1733.4	1716.0	1665.8	1631.1
22086.0	62.5°	16077.1	7078.3	1947.6	1841.5	1858.8	1696.7	1638.8	1633.0	1602.1	1590.5
23888.9	65°	16856.9	6825.4	1820.2	1837.6	1795.1	1619.5	1546.1	1544.2	1519.1	1515.3
24670.6	67.5°	16584.8	6024.3	1648.4	1783.6	1729.5	1542.3	1461.2	1453.5	1420.7	1422.6
23854.1	70°	15222.0	4881.6	1411.0	1650.4	1648.4	1472.8	1372.4	1347.3	1302.9	1310.6
20740.6	72.5°	12666.4	3617.3	1092.5	1428.4	1519.1	1409.1	1270.1	1229.6	1173.6	1181.3
15310.8	75°	9147.5	2459.1	795.3	1086.7	1322.2	1333.8	1169.7	1100.2	1032.7	1044.3
8522.1	77.5°	4680.9	1393.6	584.9	748.9	1038.5	1212.2	1079.0	986.4	970.9	1079.0
2457.2	80°	1526.8	698.8	405.4	525.0	681.4	992.2	945.8	839.7	835.8	860.9
515.4	82.5°	455.5	295.3	260.6	345.5	376.4	760.5	816.5	635.1	546.3	575.2
171.8	85°	156.4	142.8	148.6	171.8	179.5	445.9	571.4	420.8	397.6	438.2
38.6	87.5°	36.7	50.2	42.5	38.6	38.6	108.1	222.0	175.7	243.2	162.1
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>
4387.5
3468.7
3152.1
3194.6
3302.7
3395.3
3447.4
3439.7
3354.8
3212.0
3057.5
2916.6
2798.9
2746.8
2673.4
2542.2
2300.9
2167.7
2136.8
2049.9
1949.6
1835.7
1754.6
1654.2
1640.7
1590.5
1513.3
1422.6
1318.4
1179.4
1048.1
1063.6
739.3
594.5
432.4
156.4
0.0

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