

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: P943374

Luminaire Tested: **GALN-SB7D-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

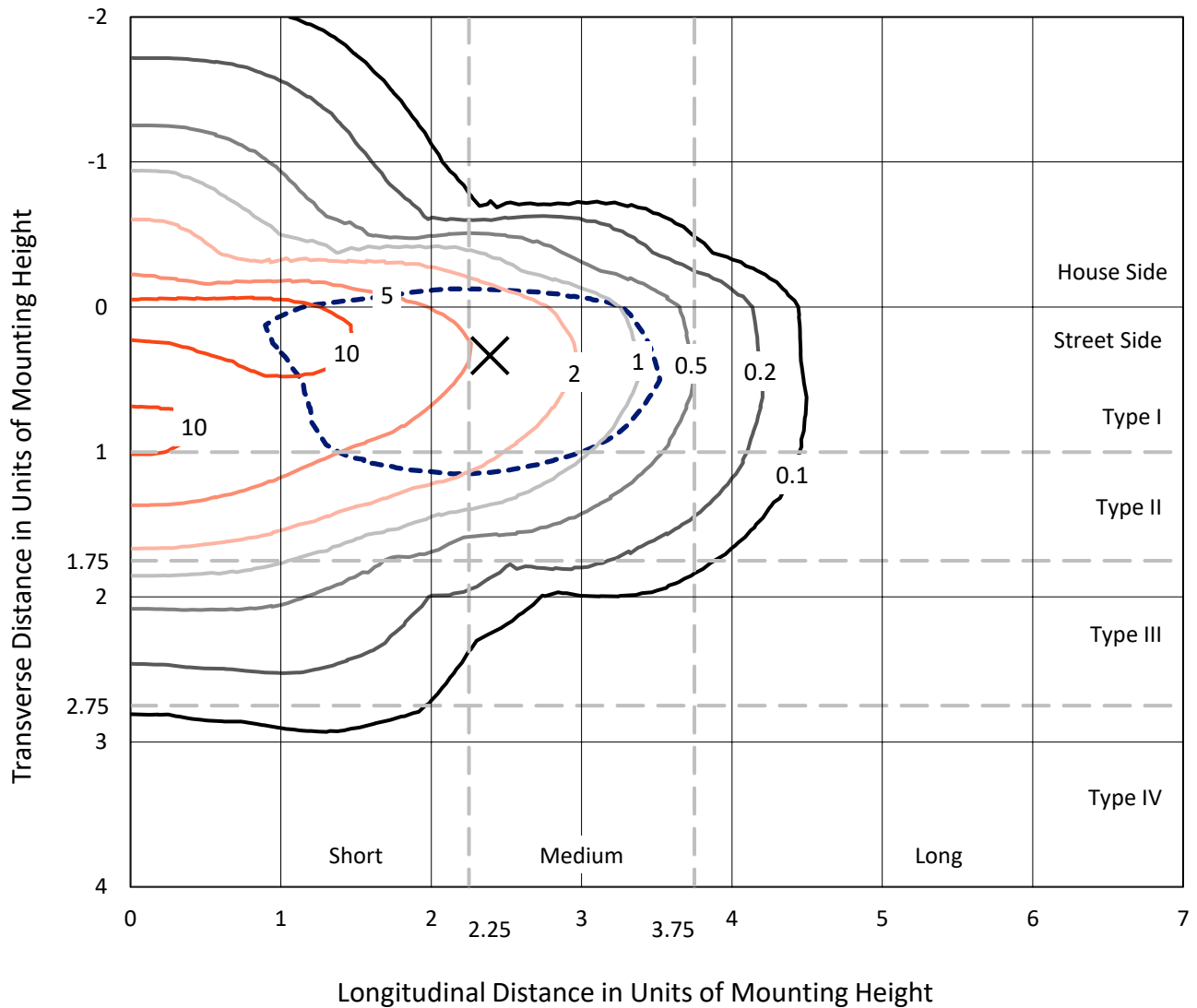
Lumens per Lamp: N/A  
Luminaire Lumens: 45953 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

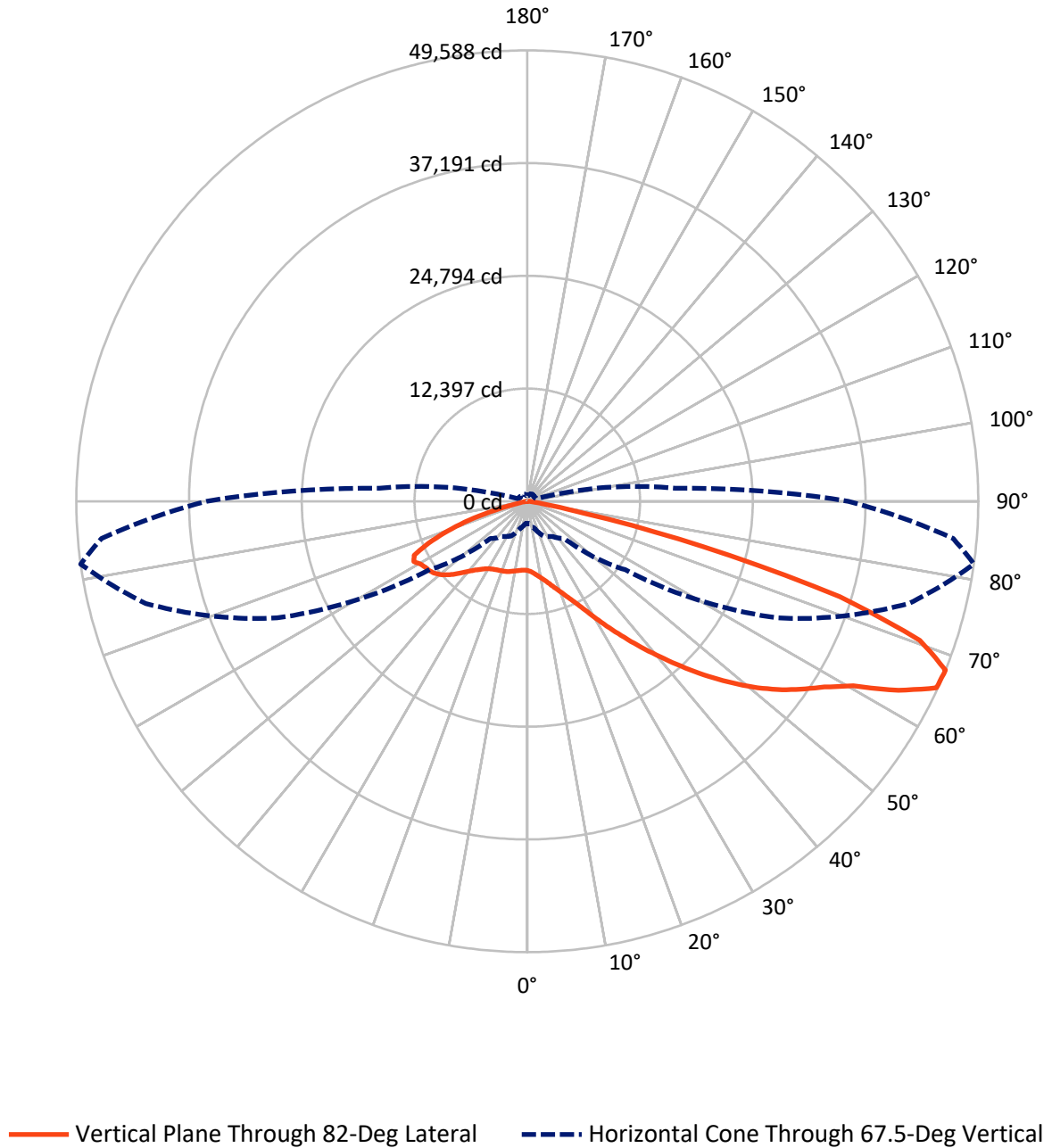
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	8324.0	0.0	8324.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	37629.0	0.0	37629.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	45953.0	0.0	45953.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.3	1.5
10°-20°	1762.5	3.8
20°-30°	2823.0	6.1
30°-40°	4991.8	10.9
40°-50°	8746.2	19.0
50°-60°	11665.0	25.4
60°-70°	10859.5	23.6
70°-80°	4167.9	9.1
80°-90°	258.9	0.6
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°	45953.0	100.0
0°-180°	45953.0	100.0

**Coefficient of Utilization**



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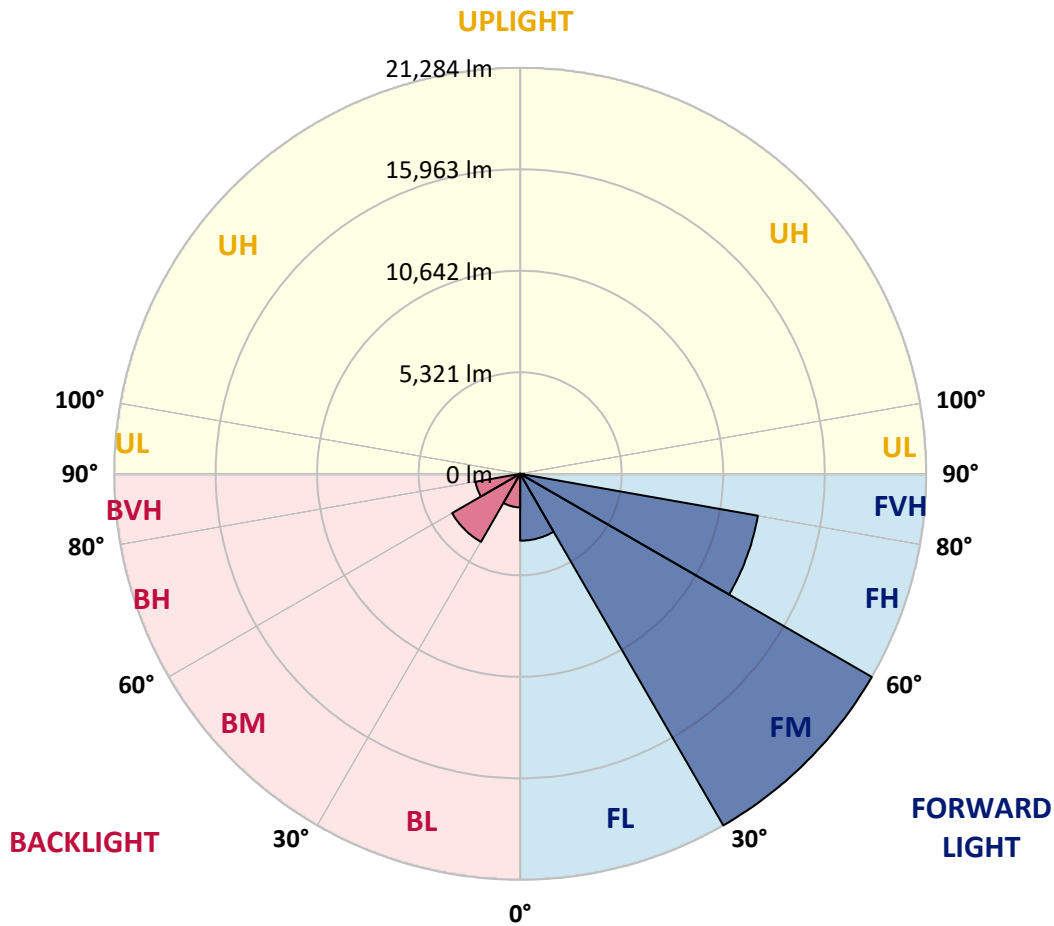
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3505.7	7.6			
FM (30°-60°)	21283.5	46.3			
FH (60°-80°)	12651.6	27.5			G5
FVH (80°-90°)	188.2	0.4			G2/225
BL (0°-30°)	1758.0	3.8	B3/2500		
BM (30°-60°)	4119.5	9.0	B3/5000		
BH (60°-80°)	2375.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	70.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9
2.5°	8046.3	8092.6	8066.1	8052.9	8029.7	7996.6	7970.2	7887.5	7801.4	7745.2
5°	8208.4	8254.7	8251.4	8264.6	8281.2	8291.1	8284.5	8191.8	8069.4	7973.5
7.5°	8069.4	8122.4	8165.4	8231.5	8347.3	8469.8	8529.3	8509.5	8383.7	8251.4
10°	7675.7	7732.0	7834.5	7990.0	8234.9	8499.5	8721.2	8823.8	8744.4	8598.8
12.5°	6954.5	7010.7	7212.5	7550.0	7960.2	8420.1	8843.6	9118.2	9138.1	8992.5
15°	6143.9	6200.1	6415.2	6838.7	7464.0	8201.8	8909.8	9429.2	9604.6	9478.9
17.5°	5641.0	5690.6	5852.7	6193.5	6845.3	7765.0	8886.6	9760.1	10160.4	10061.1
20°	5488.8	5531.8	5607.9	5846.1	6388.7	7311.8	8734.4	10071.1	10759.2	10703.0
22.5°	5650.9	5690.6	5713.8	5819.7	6160.4	7014.0	8542.5	10388.7	11454.0	11460.6
25°	6024.8	6064.5	6038.0	6104.2	6253.1	6921.4	8469.8	10762.5	12327.5	12400.3
27.5°	6640.2	6643.5	6580.6	6577.3	6600.5	7060.3	8545.9	11162.9	13429.2	13564.8
30°	7874.2	7824.6	7583.1	7321.7	7202.6	7477.2	8757.6	11636.0	14729.4	14971.0
32.5°	9776.6	9703.8	9260.5	8635.2	8006.6	8148.8	9138.1	12175.3	16145.5	16582.2
35°	11841.1	11821.3	11358.1	10428.4	9330.0	9105.0	9756.8	12883.3	17690.5	18385.3
37.5°	13760.0	13750.1	13485.4	12390.3	11053.7	10438.3	10749.3	13809.7	19344.8	20350.6
40°	15513.6	15543.3	15278.6	14299.3	12952.8	12148.8	12099.2	14954.4	21184.3	22491.2
42.5°	17028.8	17061.9	16793.9	16069.4	14828.7	14041.3	13756.7	16357.2	22980.8	24790.6
45°	18057.8	18262.9	18223.2	17644.2	16754.2	15937.0	15748.5	18117.3	25028.8	27228.9
47.5°	18348.9	18537.5	18835.3	18914.7	18372.1	17568.1	17793.1	20238.1	27099.9	29670.6
50°	17631.0	17806.3	18425.0	19248.8	19626.0	19377.9	19781.5	22511.0	29220.7	32105.7
52.5°	16215.0	16393.6	17174.4	18478.0	20016.4	20797.2	21776.5	24750.9	31275.2	34411.7
55°	14167.0	14355.6	15358.1	16833.6	19272.0	21382.8	23440.7	26987.4	33157.8	36486.1
57.5°	11381.2	11520.2	12562.4	14626.9	17399.4	20800.5	24668.2	29429.1	34931.1	38524.2
60°	7417.7	7540.1	8751.0	11053.7	14296.0	18855.1	24913.0	32152.0	37286.8	41174.3
62.5°	4933.0	5015.7	5733.6	7424.3	10067.8	15119.8	23480.4	34325.7	40740.9	45786.3
65°	3384.6	3467.3	4185.3	5363.1	6504.5	10001.6	19361.3	34037.8	43870.7	49448.8
67.5°	2415.2	2484.7	3093.4	4205.1	4708.0	5809.7	13124.8	30358.8	43420.7	49587.8
70°	1730.3	1770.0	2272.9	3275.4	3741.9	3490.5	7298.5	23219.0	38018.0	45789.6
72.5°	1210.9	1224.1	1578.2	2494.6	3014.0	2547.5	3473.9	15480.5	28754.2	35940.2
75°	820.5	837.1	1062.0	1829.6	2418.5	1945.4	1839.5	8301.0	16880.0	19894.0
77.5°	502.9	509.5	684.9	1250.6	1809.7	1482.2	1184.4	3516.9	6531.0	6411.9
80°	284.5	284.5	436.7	777.5	1234.1	956.2	830.4	1495.4	2067.8	1816.4
82.5°	158.8	162.1	317.6	483.0	817.2	565.8	456.6	691.5	893.3	790.7
85°	66.2	72.8	195.2	228.3	390.4	281.2	185.3	291.1	330.8	294.5
87.5°	6.6	9.9	59.6	43.0	46.3	56.2	26.5	56.2	46.3	46.3
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°
7612.9	0°	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9	7612.9
7725.3	2.5°	7662.5	7612.9	7487.1	7341.6	7149.7	7057.0	6931.3	6845.3	6772.5	6779.1
7917.2	5°	7811.4	7685.6	7404.4	7053.7	6617.0	6306.0	5975.1	5746.9	5561.6	5521.9
8181.9	7.5°	8016.5	7818.0	7325.0	6693.1	5955.3	5396.2	4896.6	4575.7	4347.4	4274.6
8502.8	10°	8281.2	7993.3	7222.5	6239.8	5177.8	4466.5	3930.5	3679.1	3523.6	3470.6
8880.0	12.5°	8588.9	8195.2	7086.8	5687.3	4377.1	3692.3	3351.5	3225.8	3176.2	3159.6
9343.2	15°	8976.0	8446.6	6881.7	5032.2	3698.9	3219.2	3073.6	3057.1	3063.7	3057.1
9899.0	17.5°	9435.8	8721.2	6547.5	4357.3	3242.3	2977.6	2924.7	2937.9	2954.5	2951.2
10521.0	20°	9938.7	8992.5	6120.7	3758.5	2931.3	2805.6	2775.8	2789.1	2802.3	2795.7
11239.0	22.5°	10511.1	9283.6	5647.6	3292.0	2722.9	2646.8	2613.7	2617.0	2617.0	2603.8
12148.8	25°	11196.0	9604.6	5151.3	2961.1	2564.1	2504.5	2464.8	2451.6	2431.7	2392.0
13253.8	27.5°	12013.2	9945.3	4674.9	2729.5	2438.4	2382.1	2335.8	2302.7	2253.1	2186.9
14580.6	30°	12932.9	10358.9	4271.3	2583.9	2339.1	2282.9	2229.9	2180.3	2107.5	2024.8
16105.8	32.5°	14014.8	10802.3	3976.8	2488.0	2249.8	2190.2	2127.4	2067.8	1988.4	1905.7
17819.6	35°	15305.1	11338.2	3804.8	2421.8	2180.3	2100.9	2031.4	1965.2	1905.7	1832.9
19682.3	37.5°	16704.6	11907.3	3751.8	2388.7	2134.0	2011.6	1932.2	1885.8	1879.2	1836.2
21697.1	40°	18236.4	12582.2	3791.5	2368.9	2084.4	1925.5	1839.5	1829.6	1846.1	1770.0
23851.0	42.5°	19857.6	13382.9	3857.7	2345.7	2014.9	1839.5	1756.8	1756.8	1743.6	1637.7
26127.2	45°	21611.1	14306.0	3923.9	2289.5	1932.2	1753.5	1690.6	1667.5	1611.2	1508.7
28416.7	47.5°	23377.9	15245.6	3973.5	2186.9	1832.9	1680.7	1624.5	1571.5	1488.8	1396.2
30663.2	50°	25055.3	16089.2	3920.6	2034.7	1720.4	1611.2	1551.7	1478.9	1389.6	1326.7
32790.5	52.5°	26554.0	16820.4	3695.6	1856.1	1601.3	1538.5	1485.5	1409.4	1336.6	1270.5
34709.5	55°	27857.6	17412.6	3298.6	1687.3	1495.4	1475.6	1422.7	1326.7	1227.5	1171.2
36611.9	57.5°	29108.2	17862.6	2802.3	1548.4	1399.5	1406.1	1326.7	1240.7	1148.0	1088.5
39175.9	60°	30772.4	18464.7	2299.4	1419.3	1296.9	1316.8	1230.8	1167.9	1052.1	976.0
43572.9	62.5°	33432.4	19401.0	1826.3	1260.5	1177.8	1184.4	1148.0	1072.0	933.0	843.7
46831.8	65°	35543.2	19057.0	1439.2	1088.5	1042.2	1052.1	1052.1	969.4	820.5	717.9
47007.2	67.5°	35305.0	16317.5	1148.0	919.8	913.1	919.8	942.9	873.4	727.9	645.2
43427.4	70°	32522.5	12979.2	919.8	764.3	794.0	777.5	843.7	797.3	655.1	572.4
33667.3	72.5°	26537.5	9349.8	701.4	631.9	608.8	635.2	761.0	717.9	545.9	453.3
17832.8	75°	15506.9	4989.2	522.7	499.6	440.0	529.4	674.9	612.1	416.9	334.2
5465.6	77.5°	5048.8	1740.3	383.8	367.2	327.5	426.8	575.7	516.1	340.8	264.7
1601.3	80°	1353.2	526.1	261.4	241.5	211.7	317.6	456.6	410.3	244.8	172.0
688.2	82.5°	542.6	221.7	152.2	135.6	115.8	218.4	360.6	330.8	182.0	109.2
215.1	85°	175.4	72.8	56.2	43.0	52.9	135.6	215.1	225.0	129.0	56.2
33.1	87.5°	23.2	9.9	9.9	13.2	9.9	23.2	66.2	62.9	36.4	6.6
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>
7612.9
6712.9
5432.6
4201.8
3430.9
3149.7
3053.7
2944.6
2792.4
2597.2
2385.4
2180.3
2018.2
1909.0
1826.3
1832.9
1773.4
1637.7
1505.4
1392.9
1316.8
1263.8
1164.6
1081.9
966.1
837.1
708.0
631.9
562.4
443.3
324.2
254.8
168.7
109.2
43.0
0.0
0.0

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