

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: P944784

Luminaire Tested: **GALN-SB9D-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944784  
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-SB9D-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

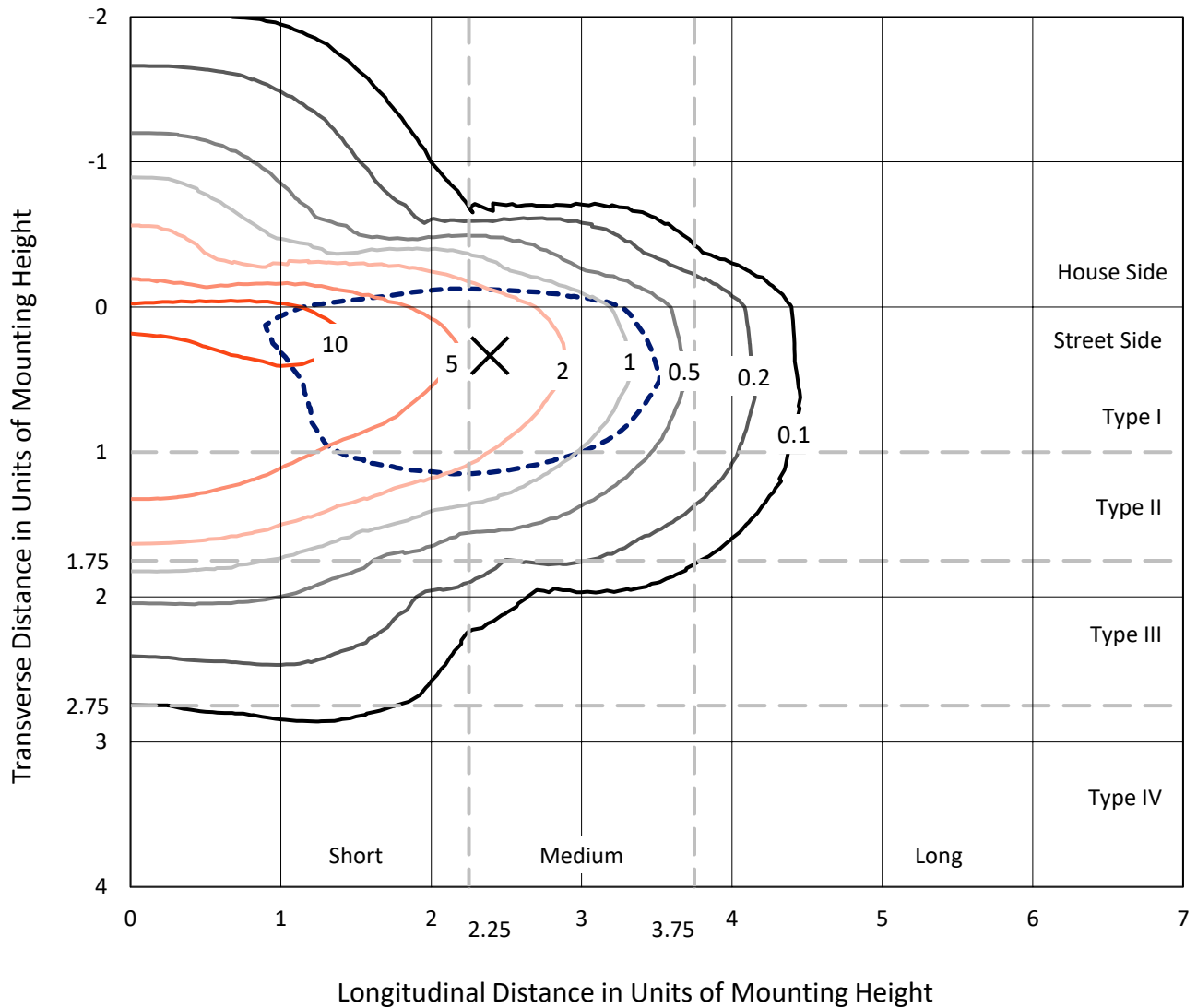
Lumens per Lamp: N/A  
Luminaire Lumens: 41198 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

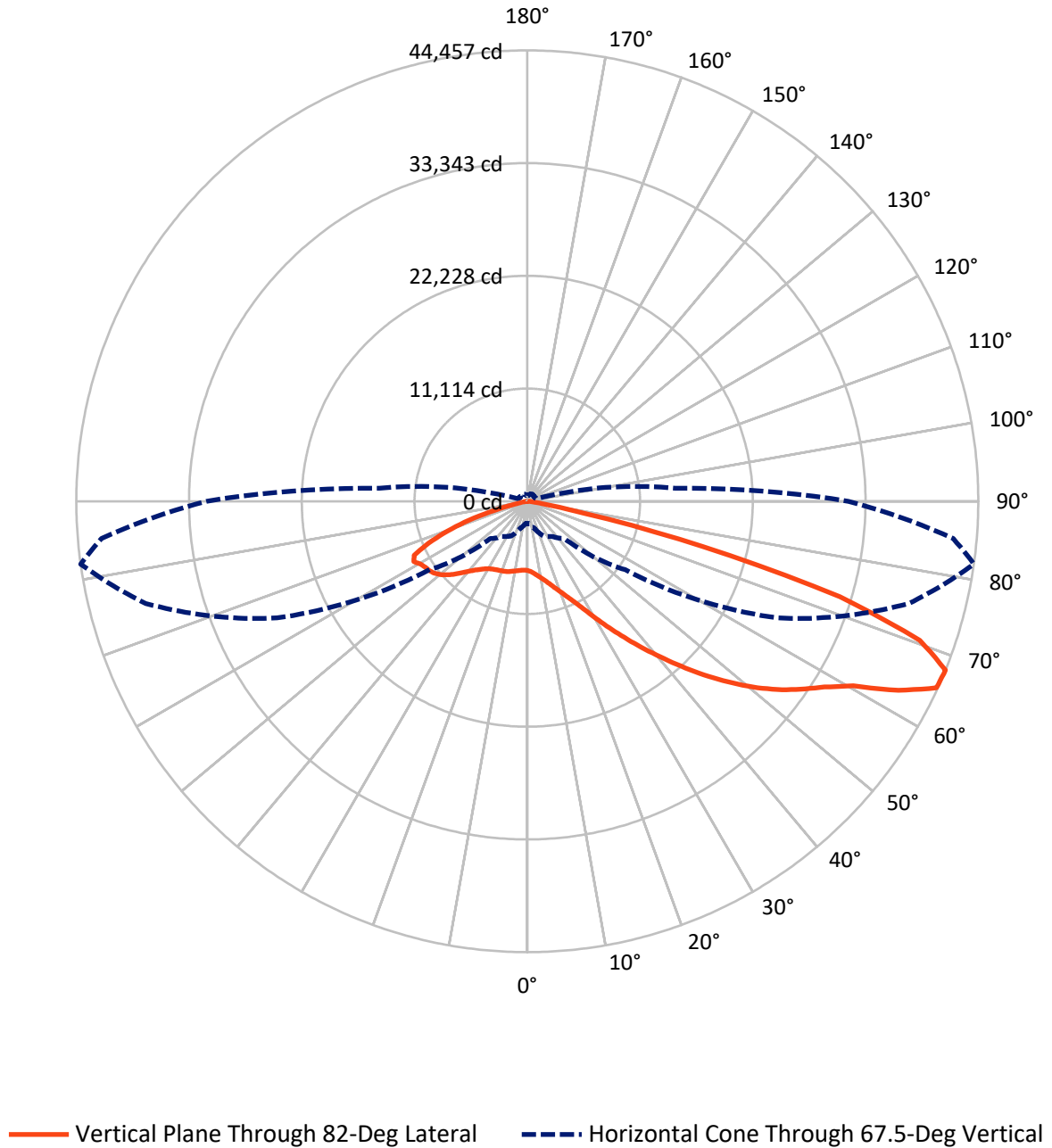
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type 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	7462.7	0.0	7462.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	33735.3	0.0	33735.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	41198.0	0.0	41198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.1	1.5
10°-20°	1580.1	3.8
20°-30°	2530.8	6.1
30°-40°	4475.3	10.9
40°-50°	7841.2	19.0
50°-60°	10458.0	25.4
60°-70°	9735.8	23.6
70°-80°	3736.6	9.1
80°-90°	232.1	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°	41198.0	100.0
0°-180°	41198.0	100.0

**Coefficient of Utilization**



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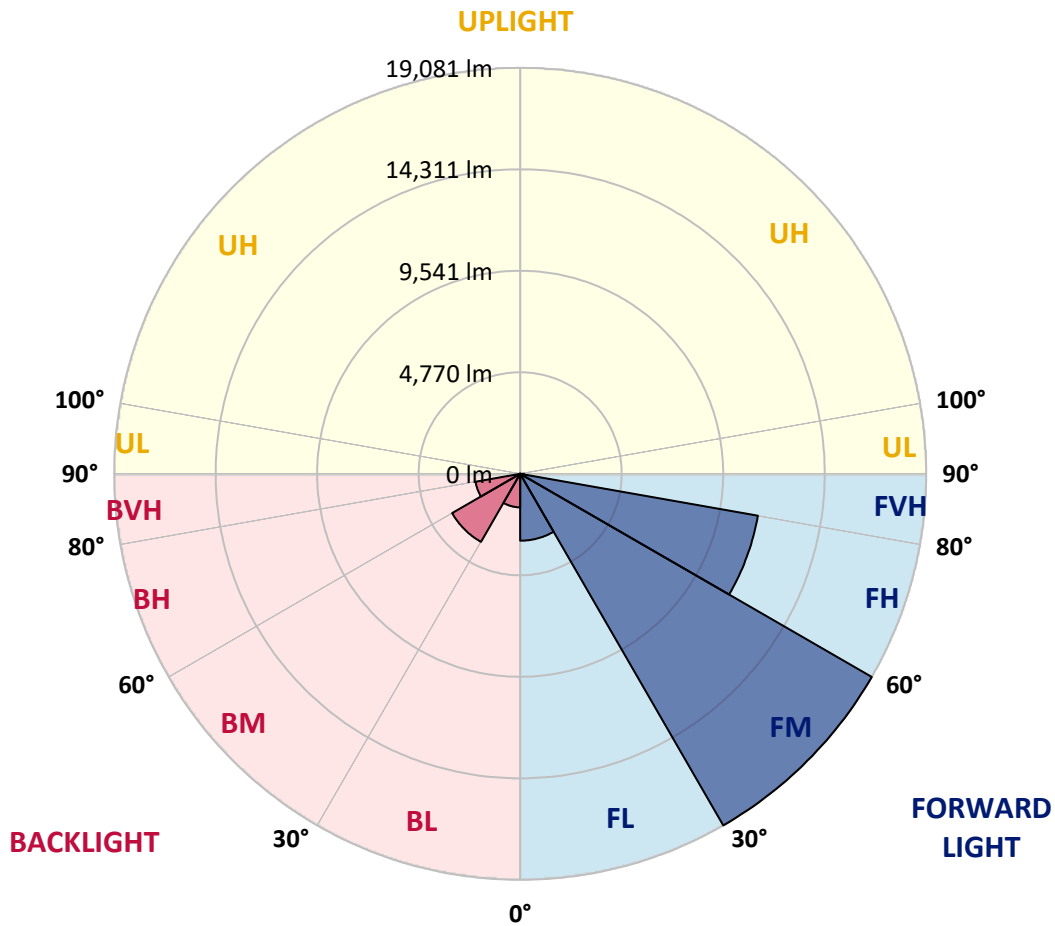
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.9	7.6			
FM (30°-60°)	19081.2	46.3			
FH (60°-80°)	11342.4	27.5			G4/12000
FVH (80°-90°)	168.7	0.4			G2/225
BL (0°-30°)	1576.1	3.8	B3/2500		
BM (30°-60°)	3693.2	9.0	B3/5000		
BH (60°-80°)	2130.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	63.4	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1
2.5°	7213.7	7255.2	7231.5	7219.6	7198.8	7169.2	7145.5	7071.3	6994.2	6943.8
5°	7359.0	7400.5	7397.6	7409.4	7424.3	7433.2	7427.2	7344.2	7234.4	7148.4
7.5°	7234.4	7281.9	7320.5	7379.8	7483.6	7593.3	7646.7	7628.9	7516.2	7397.6
10°	6881.5	6931.9	7023.8	7163.3	7382.8	7620.0	7818.8	7910.7	7839.5	7709.0
12.5°	6234.9	6285.3	6466.2	6768.8	7136.6	7548.9	7928.5	8174.7	8192.5	8062.0
15°	5508.1	5558.6	5751.4	6131.0	6691.6	7353.1	7987.8	8453.5	8610.7	8498.0
17.5°	5057.3	5101.8	5247.1	5552.6	6137.0	6961.6	7967.1	8750.1	9109.1	9020.1
20°	4920.8	4959.4	5027.6	5241.2	5727.6	6555.2	7830.6	9029.0	9645.9	9595.5
22.5°	5066.2	5101.8	5122.5	5217.5	5523.0	6288.2	7658.6	9313.7	10268.8	10274.7
25°	5401.4	5437.0	5413.2	5472.5	5606.0	6205.2	7593.3	9648.9	11051.9	11117.1
27.5°	5953.1	5956.0	5899.7	5896.7	5917.5	6329.8	7661.6	10007.8	12039.6	12161.2
30°	7059.4	7014.9	6798.4	6564.1	6457.3	6703.5	7851.4	10432.0	13205.3	13421.8
32.5°	8765.0	8699.7	8302.3	7741.7	7178.1	7305.6	8192.5	10915.4	14474.8	14866.4
35°	10615.9	10598.1	10182.8	9349.3	8364.5	8162.8	8747.2	11550.2	15860.0	16482.9
37.5°	12336.2	12327.3	12090.0	11108.2	9909.9	9358.2	9637.0	12380.7	17343.1	18244.8
40°	13908.3	13935.0	13697.7	12819.7	11612.5	10891.7	10847.2	13407.0	18992.3	20163.9
42.5°	15266.8	15296.4	15056.2	14406.6	13294.3	12588.3	12333.3	14664.7	20602.9	22225.4
45°	16189.3	16373.2	16337.6	15818.5	15020.6	14288.0	14118.9	16242.6	22438.9	24411.4
47.5°	16450.3	16619.3	16886.3	16957.5	16471.0	15750.3	15952.0	18143.9	24295.7	26600.4
50°	15806.6	15963.8	16518.5	17257.1	17595.2	17372.7	17734.6	20181.7	26197.0	28783.5
52.5°	14537.1	14697.3	15397.3	16566.0	17945.2	18645.2	19523.2	22189.8	28039.0	30850.9
55°	12701.1	12870.1	13768.9	15091.8	17277.8	19170.2	21015.2	24194.9	29726.8	32710.7
57.5°	10203.6	10328.1	11262.5	13113.4	15599.0	18648.2	22115.6	26383.9	31316.6	34537.9
60°	6650.1	6759.9	7845.5	9909.9	12816.7	16904.1	22335.1	28825.1	33428.5	36913.8
62.5°	4422.5	4496.7	5140.3	6656.0	9026.0	13555.3	21050.8	30773.8	36525.2	41048.6
65°	3034.4	3108.5	3752.2	4808.1	5831.5	8966.7	17357.9	30515.8	39331.2	44332.1
67.5°	2165.3	2227.6	2773.4	3770.0	4220.8	5208.6	11766.7	27217.4	38927.8	44456.7
70°	1551.3	1586.9	2037.7	2936.5	3354.7	3129.3	6543.3	20816.5	34084.0	41051.5
72.5°	1085.6	1097.5	1414.9	2236.5	2702.2	2283.9	3114.5	13878.6	25778.8	32221.3
75°	735.6	750.4	952.1	1640.3	2168.3	1744.1	1649.2	7442.1	15133.3	17835.5
77.5°	450.9	456.8	614.0	1121.2	1622.5	1328.8	1061.9	3153.0	5855.2	5748.4
80°	255.1	255.1	391.5	697.0	1106.4	857.2	744.5	1340.7	1853.8	1628.4
82.5°	142.4	145.3	284.8	433.1	732.6	507.2	409.3	619.9	800.9	708.9
85°	59.3	65.3	175.0	204.7	350.0	252.1	166.1	261.0	296.6	264.0
87.5°	5.9	8.9	53.4	38.6	41.5	50.4	23.7	50.4	41.5	41.5
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°
6825.1	0°	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1	6825.1
6926.0	2.5°	6869.6	6825.1	6712.4	6581.9	6409.9	6326.8	6214.1	6137.0	6071.7	6077.6
7098.0	5°	7003.1	6890.4	6638.2	6323.8	5932.3	5653.5	5356.9	5152.2	4986.1	4950.5
7335.3	7.5°	7187.0	7009.0	6567.1	6000.5	5339.1	4837.8	4389.9	4102.2	3897.5	3832.3
7623.0	10°	7424.3	7166.2	6475.1	5594.2	4642.0	4004.3	3523.8	3298.4	3159.0	3111.5
7961.2	12.5°	7700.1	7347.2	6353.5	5098.8	3924.2	3310.2	3004.7	2892.0	2847.5	2832.7
8376.4	15°	8047.2	7572.6	6169.6	4511.5	3316.2	2886.1	2755.6	2740.7	2746.7	2740.7
8874.7	17.5°	8459.5	7818.8	5870.0	3906.4	2906.8	2669.5	2622.1	2633.9	2648.8	2645.8
9432.4	20°	8910.3	8062.0	5487.4	3369.5	2628.0	2515.3	2488.6	2500.5	2512.3	2506.4
10076.0	22.5°	9423.5	8323.0	5063.2	2951.3	2441.1	2372.9	2343.3	2346.2	2346.2	2334.4
10891.7	25°	10037.5	8610.7	4618.3	2654.7	2298.8	2245.4	2209.8	2197.9	2180.1	2144.5
11882.4	27.5°	10770.1	8916.3	4191.2	2447.1	2186.1	2135.6	2094.1	2064.4	2019.9	1960.6
13071.8	30°	11594.7	9287.0	3829.3	2316.6	2097.1	2046.6	1999.2	1954.7	1889.4	1815.3
14439.2	32.5°	12564.6	9684.5	3565.3	2230.5	2017.0	1963.6	1907.2	1853.8	1782.7	1708.5
15975.7	35°	13721.4	10165.0	3411.1	2171.2	1954.7	1883.5	1821.2	1761.9	1708.5	1643.2
17645.6	37.5°	14976.1	10675.2	3363.6	2141.6	1913.2	1803.4	1732.2	1690.7	1684.8	1646.2
19452.0	40°	16349.4	11280.3	3399.2	2123.8	1868.7	1726.3	1649.2	1640.3	1655.1	1586.9
21383.0	42.5°	17802.8	11998.1	3458.5	2103.0	1806.4	1649.2	1575.0	1575.0	1563.2	1468.2
23423.7	45°	19374.9	12825.6	3517.9	2052.6	1732.2	1572.1	1515.7	1494.9	1444.5	1352.6
25476.3	47.5°	20958.8	13668.0	3562.3	1960.6	1643.2	1506.8	1456.4	1408.9	1334.8	1251.7
27490.3	50°	22462.7	14424.4	3514.9	1824.2	1542.4	1444.5	1391.1	1325.9	1245.8	1189.4
29397.5	52.5°	23806.3	15079.9	3313.2	1664.0	1435.6	1379.3	1331.8	1263.6	1198.3	1139.0
31117.9	55°	24975.0	15610.9	2957.3	1512.7	1340.7	1322.9	1275.4	1189.4	1100.4	1050.0
32823.4	57.5°	26096.2	16014.3	2512.3	1388.2	1254.7	1260.6	1189.4	1112.3	1029.3	975.9
35122.2	60°	27588.2	16554.1	2061.5	1272.5	1162.7	1180.5	1103.4	1047.1	943.2	875.0
39064.2	62.5°	29973.0	17393.5	1637.3	1130.1	1055.9	1061.9	1029.3	961.0	836.5	756.4
41985.9	65°	31865.4	17085.0	1290.3	975.9	934.3	943.2	943.2	869.1	735.6	643.7
42143.1	67.5°	31651.8	14629.1	1029.3	824.6	818.7	824.6	845.4	783.1	652.6	578.4
38933.7	70°	29157.3	11636.2	824.6	685.2	711.9	697.0	756.4	714.8	587.3	513.1
30183.6	72.5°	23791.5	8382.3	628.8	566.5	545.8	569.5	682.2	643.7	489.4	406.4
15987.6	75°	13902.4	4473.0	468.7	447.9	394.5	474.6	605.1	548.7	373.7	299.6
4900.1	77.5°	4526.3	1560.2	344.1	329.2	293.6	382.6	516.1	462.7	305.5	237.3
1435.6	80°	1213.2	471.6	234.3	216.5	189.8	284.8	409.3	367.8	219.5	154.2
617.0	82.5°	486.4	198.7	136.4	121.6	103.8	195.8	323.3	296.6	163.1	97.9
192.8	85°	157.2	65.3	50.4	38.6	47.5	121.6	192.8	201.7	115.7	50.4
29.7	87.5°	20.8	8.9	8.9	11.9	8.9	20.8	59.3	56.4	32.6	5.9
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>
6825.1
6018.3
4870.4
3767.0
3075.9
2823.8
2737.8
2639.9
2503.4
2328.4
2138.6
1954.7
1809.4
1711.5
1637.3
1643.2
1589.9
1468.2
1349.6
1248.7
1180.5
1133.1
1044.1
969.9
866.1
750.4
634.8
566.5
504.2
397.5
290.7
228.4
151.3
97.9
38.6
0.0
0.0

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