

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: P944578

Luminaire Tested: **GALN-SB9C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-830-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

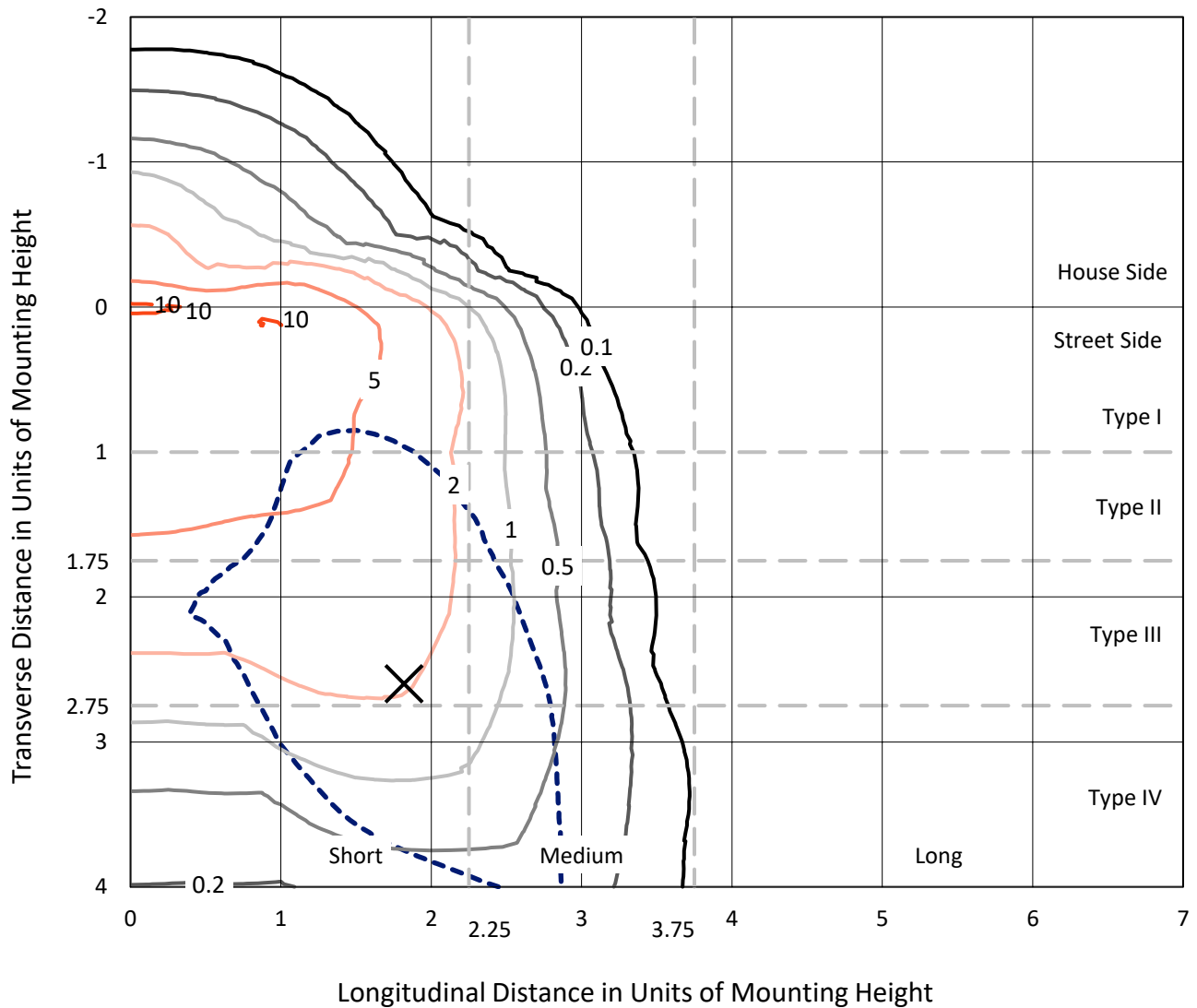
Lumens per Lamp: N/A  
Luminaire Lumens: 46408 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

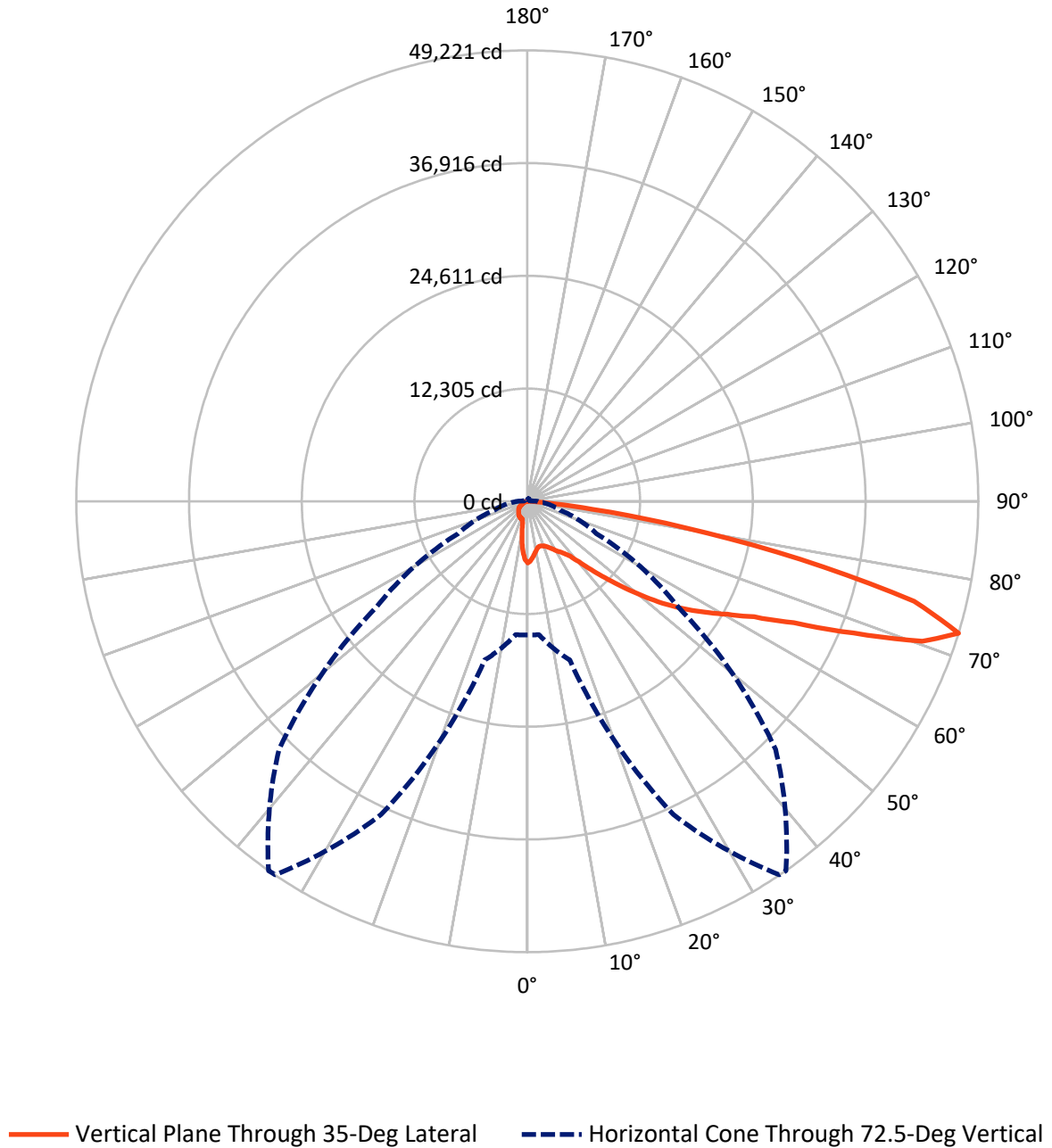
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5223.0	0.0	5223.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	41185.0	0.0	41185.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	46408.0	0.0	46408.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.7	1.2
10°-20°	1293.0	2.8
20°-30°	2100.4	4.5
30°-40°	3504.5	7.6
40°-50°	6630.7	14.3
50°-60°	10536.1	22.7
60°-70°	13033.9	28.1
70°-80°	8101.9	17.5
80°-90°	654.8	1.4
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°	46408.0	100.0
0°-180°	46408.0	100.0

**Coefficient of Utilization**



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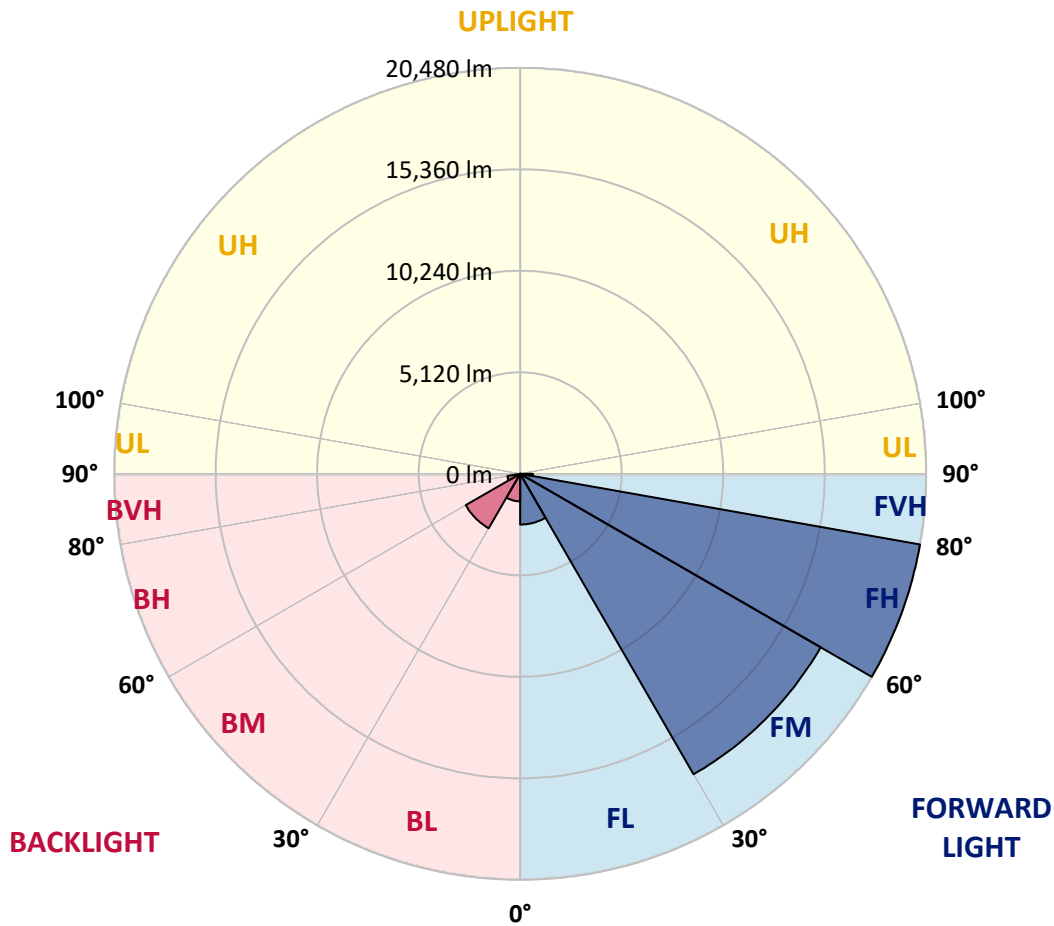
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.3	5.5			
FM (30°-60°)	17500.5	37.7			
FH (60°-80°)	20480.4	44.1			G5
FVH (80°-90°)	645.9	1.4			G4/750
BL (0°-30°)	1387.9	3.0	B3/2500		
BM (30°-60°)	3170.8	6.8	B3/5000		
BH (60°-80°)	655.4	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
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°	34°	35°	45°	55°	65°	75°
0°	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1
2.5°	6426.8	6481.2	6491.4	6508.4	6508.4	6528.8	6562.9	6610.5	6688.7	6729.5
5°	5923.6	5964.4	6015.4	6056.2	6134.4	6144.6	6277.2	6406.4	6586.7	6722.7
7.5°	5416.9	5464.5	5532.5	5631.1	5733.1	5763.7	5964.4	6182.0	6467.6	6722.7
10°	5059.9	5063.3	5124.5	5223.1	5386.3	5423.7	5668.5	5978.0	6335.0	6681.9
12.5°	4859.2	4883.0	4910.2	4985.0	5141.5	5165.3	5427.1	5791.0	6202.4	6658.1
15°	4859.2	4876.2	4893.2	4930.6	5056.5	5076.9	5308.1	5671.9	6134.4	6668.3
17.5°	4910.2	4937.4	4923.8	4968.0	5100.7	5114.3	5318.3	5637.9	6131.0	6732.9
20°	5032.7	5053.1	5025.9	5053.1	5185.7	5212.9	5423.7	5702.5	6188.8	6845.1
22.5°	5226.5	5236.7	5172.1	5192.5	5328.5	5362.5	5607.3	5886.2	6328.2	7025.3
25°	5471.3	5491.7	5393.1	5416.9	5546.1	5586.9	5869.2	6161.6	6549.3	7273.5
27.5°	5753.5	5763.7	5678.7	5675.3	5842.0	5899.8	6185.4	6501.6	6845.1	7586.4
30°	6076.6	6107.2	6025.6	6012.0	6222.8	6270.4	6552.7	6919.9	7280.3	8055.6
32.5°	6331.6	6355.4	6307.8	6341.8	6556.1	6593.5	6998.1	7511.6	7963.8	8722.1
35°	6698.9	6712.5	6603.7	6664.9	6909.7	7004.9	7606.8	8341.3	8824.1	9558.6
37.5°	8028.4	8028.4	7566.0	7263.3	7498.0	7583.0	8439.9	9385.2	9885.1	10680.8
40°	9868.1	9837.5	9160.8	8541.9	8511.3	8677.9	9626.7	10701.2	11255.5	12027.4
42.5°	11830.1	11782.5	10861.0	10248.9	10146.9	10204.7	10997.0	12323.2	12887.7	13669.8
45°	13571.2	13557.6	12714.3	11891.3	11707.7	11891.3	12707.5	14220.7	14625.3	15448.2
47.5°	15030.0	15030.0	14414.5	13877.2	13782.0	13890.8	15023.2	16325.5	16288.1	17342.3
50°	16709.8	16696.2	16111.3	15880.1	15978.7	16131.7	17689.1	18542.6	18008.7	19202.3
52.5°	17886.3	17967.9	17767.3	17729.9	18233.2	18498.4	20395.9	20712.1	19549.1	20967.1
55°	18818.0	18913.3	19144.5	19406.3	20375.5	20722.3	23017.6	22769.4	20837.9	22497.3
57.5°	20137.4	20001.4	20358.4	20875.3	22442.9	22861.2	25557.7	24711.0	21875.0	23738.5
60°	21739.0	21759.4	21820.6	22473.5	24507.0	25044.3	28060.5	26547.3	22541.5	24500.2
62.5°	23663.7	23694.3	23820.1	24823.2	27278.3	27785.0	30726.4	28050.2	22847.6	24286.0
65°	23531.1	23660.3	25064.7	28495.7	31491.5	31991.4	33837.8	29104.4	22385.1	22327.3
67.5°	21436.4	21647.2	23996.9	32882.3	37843.5	38401.2	37598.7	29311.8	20389.1	17362.7
70°	18688.8	18763.6	21589.4	36826.8	45198.7	45763.2	40965.1	27030.1	15472.0	9684.5
72.5°	14594.7	14611.7	17927.1	37741.5	49190.8	49221.4	38323.0	20066.0	8320.9	3720.1
75°	10425.8	10323.7	12007.0	30607.4	43277.4	43624.3	28730.3	9412.4	3179.4	1758.0
77.5°	5590.3	5702.5	6794.1	18151.6	29896.7	30488.4	15676.0	2713.6	1618.6	1197.0
80°	1727.4	1822.6	2785.0	8310.7	16934.2	17291.2	5811.4	1207.2	1128.9	853.5
82.5°	544.1	564.5	1299.0	3492.3	7028.7	7191.9	1683.2	683.5	771.9	564.5
85°	156.4	159.8	578.1	1302.4	1737.6	1771.6	472.7	265.2	442.1	350.2
87.5°	17.0	54.4	217.6	217.6	153.0	149.6	51.0	57.8	125.8	44.2
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°
6726.1	0°	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1	6726.1
6756.7	2.5°	6739.7	6743.1	6698.9	6624.1	6542.5	6474.4	6389.4	6321.4	6273.8	6260.2
6817.9	5°	6787.3	6763.5	6637.7	6409.8	6137.8	5903.2	5641.3	5433.9	5297.9	5240.1
6882.5	7.5°	6858.7	6790.7	6515.2	6066.4	5546.1	5083.7	4614.4	4250.6	4019.3	3903.7
6943.7	10°	6919.9	6783.9	6311.2	5569.9	4774.2	4073.7	3441.2	3002.6	2757.8	2642.1
7015.1	12.5°	6977.7	6780.5	6046.0	4981.6	3903.7	3046.8	2458.5	2240.9	2172.9	2149.1
7130.7	15°	7086.5	6790.7	5712.7	4308.4	3036.6	2302.1	2087.9	2084.5	2098.1	2091.3
7307.6	17.5°	7236.1	6800.9	5335.3	3594.3	2342.9	2030.1	2019.9	2050.5	2070.9	2060.7
7528.6	20°	7430.0	6841.7	4934.0	2887.0	2013.1	1962.1	1985.9	2013.1	2030.1	2013.1
7824.4	22.5°	7702.0	6913.1	4495.4	2319.1	1907.6	1921.2	1941.7	1972.3	1989.3	1965.5
8201.9	25°	8035.2	7025.3	4063.5	2016.5	1856.6	1873.6	1904.2	1938.3	1958.7	1934.9
8677.9	27.5°	8467.1	7205.5	3665.7	1948.5	1805.6	1815.8	1860.0	1911.0	1938.3	1907.6
9354.6	30°	9092.8	7501.4	3322.2	1979.1	1775.0	1751.2	1812.4	1883.8	1914.4	1887.2
10276.1	32.5°	9922.5	7919.6	3111.4	2026.7	1761.4	1676.4	1734.2	1826.0	1877.0	1860.0
11479.9	35°	11010.6	8555.5	3029.8	2081.1	1751.2	1598.2	1639.0	1737.6	1826.0	1843.0
12996.5	37.5°	12330.0	9439.6	3053.6	2104.9	1720.6	1533.6	1554.0	1639.0	1754.6	1809.0
14703.5	40°	13829.6	10470.0	3189.6	2081.1	1686.6	1479.2	1482.6	1547.2	1649.2	1730.8
16539.8	42.5°	15376.8	11673.7	3441.2	1992.7	1656.0	1431.6	1421.4	1465.6	1533.6	1591.4
18372.6	45°	16849.2	12911.5	3689.5	1870.2	1618.6	1384.0	1360.2	1377.2	1390.8	1414.6
20157.8	47.5°	18134.6	13782.0	3618.1	1758.0	1567.6	1329.6	1288.8	1282.0	1241.2	1237.8
21752.6	50°	19022.1	13972.4	3213.4	1645.8	1492.8	1268.4	1203.8	1163.0	1091.5	1057.5
22946.2	52.5°	19304.3	13220.9	2625.1	1533.6	1370.4	1186.8	1094.9	1030.3	941.9	911.3
23633.1	55°	18930.3	11748.5	2098.1	1397.6	1200.4	1077.9	975.9	890.9	819.5	782.1
23707.9	57.5°	18015.5	9874.9	1659.4	1237.8	1020.1	955.5	853.5	768.5	707.3	669.9
22878.2	60°	16498.9	7841.4	1312.6	1047.3	870.5	822.9	717.5	663.1	608.7	564.5
20735.9	62.5°	14196.8	5597.1	1030.3	829.7	727.7	673.3	612.1	571.3	506.7	445.5
16883.2	65°	11078.6	3424.2	795.7	608.7	584.9	557.7	520.3	482.9	404.7	343.4
11014.0	67.5°	6987.9	1622.0	567.9	459.1	462.5	448.9	431.9	401.3	343.4	289.0
4934.0	70°	3077.4	785.5	374.0	350.2	343.4	343.4	357.0	346.8	292.4	241.4
1713.8	72.5°	1047.3	421.7	278.8	265.2	248.2	244.8	299.2	289.0	234.6	187.0
853.5	75°	547.5	282.2	204.0	190.4	149.6	180.2	238.0	224.4	166.6	122.4
564.5	77.5°	357.0	200.6	139.4	122.4	85.0	119.0	176.8	156.4	98.6	61.2
370.6	80°	224.4	132.6	81.6	57.8	40.8	64.6	95.2	68.0	37.4	13.6
217.6	82.5°	119.0	68.0	30.6	20.4	17.0	20.4	23.8	17.0	6.8	0.0
112.2	85°	47.6	23.8	10.2	6.8	3.4	0.0	6.8	3.4	0.0	0.0
20.4	87.5°	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6726.1
6284.0
5260.5
3920.7
2645.5
2142.3
2087.9
2057.3
2009.7
1962.1
1931.5
1907.6
1883.8
1860.0
1843.0
1822.6
1758.0
1615.2
1428.2
1234.4
1060.9
907.9
782.1
663.1
554.3
435.3
333.2
282.2
231.2
176.8
112.2
54.4
10.2
0.0
0.0
0.0
0.0

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