

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: P942738

Luminaire Tested: **GALN-SB6D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942738
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-SB6D-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 900mA 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: 44691 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

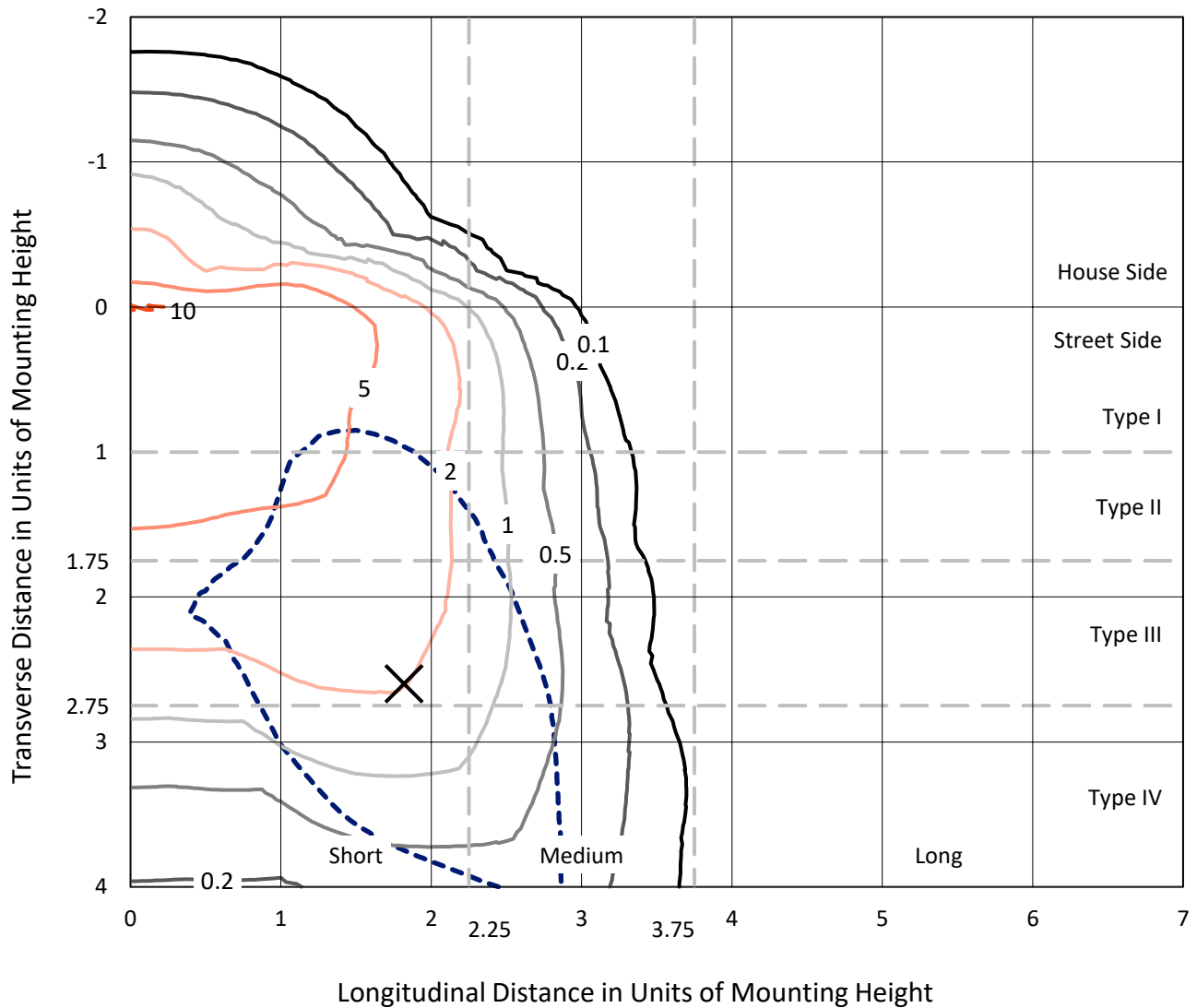
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

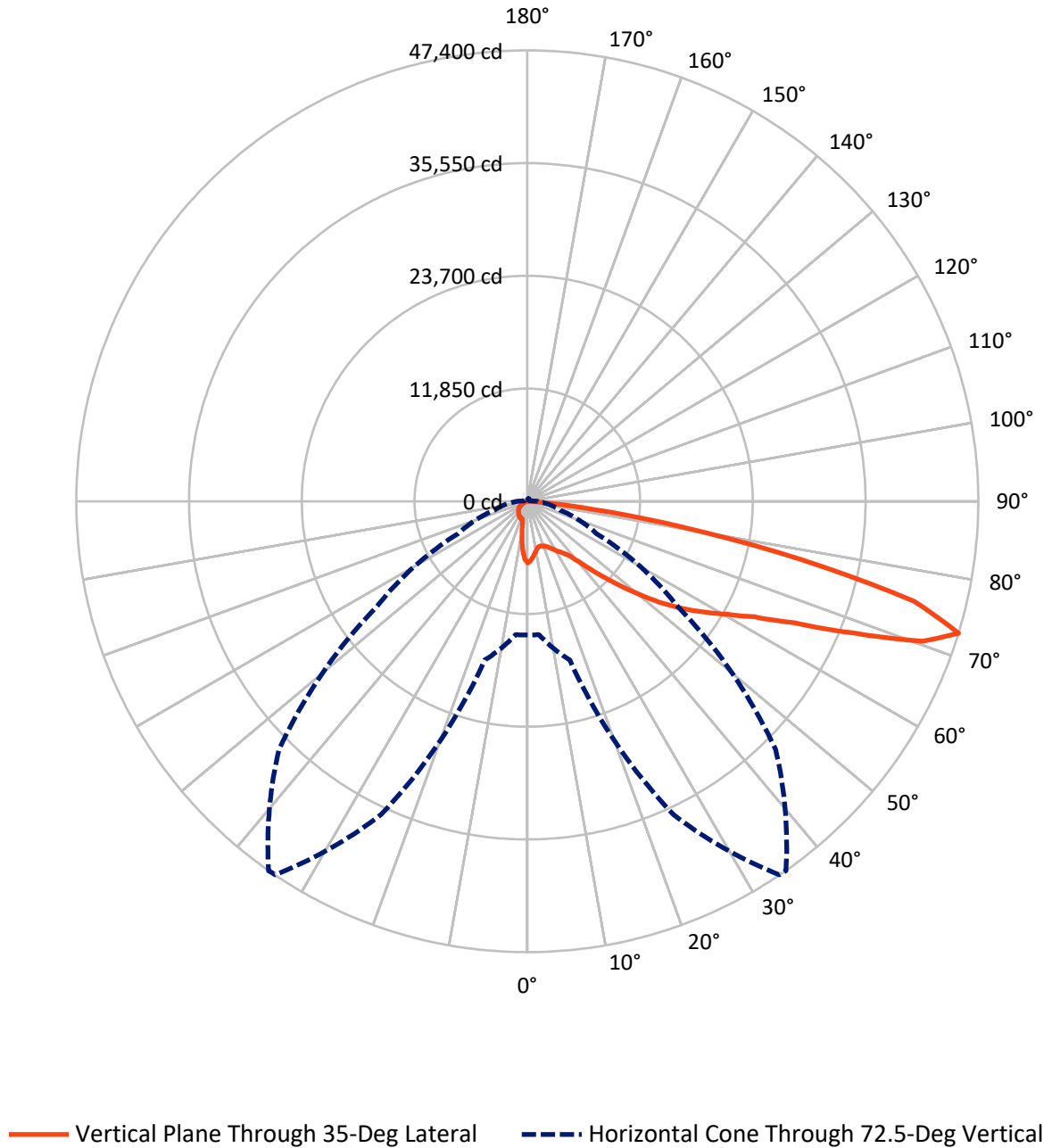
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5029.8	0.0	5029.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	39661.2	0.0	39661.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	44691.0	0.0	44691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	1.2
10°-20°	1245.1	2.8
20°-30°	2022.7	4.5
30°-40°	3374.9	7.6
40°-50°	6385.4	14.3
50°-60°	10146.3	22.7
60°-70°	12551.7	28.1
70°-80°	7802.2	17.5
80°-90°	630.5	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°	44691.0	100.0
0°-180°	44691.0	100.0

Coefficient of Utilization



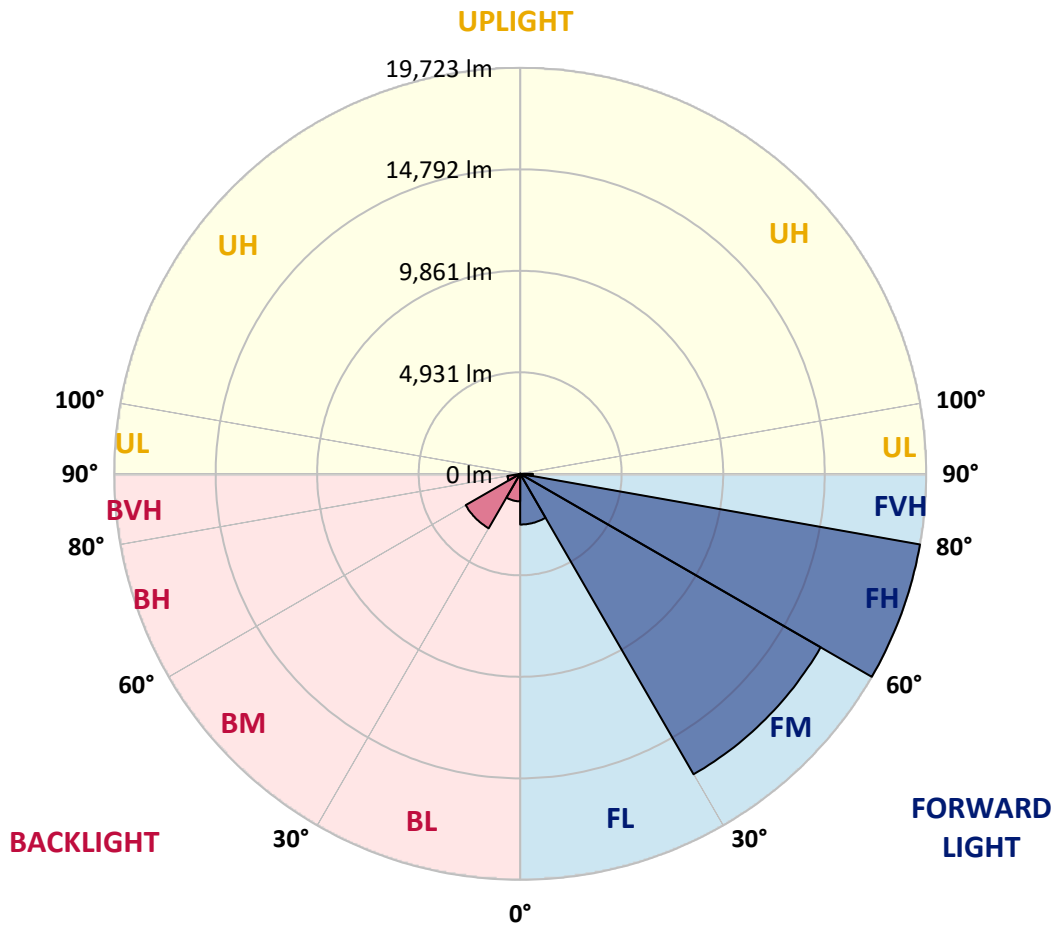
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2463.6	5.5			
FM (30°-60°)	16853.0	37.7			
FH (60°-80°)	19722.7	44.1			G5
FVH (80°-90°)	622.0	1.4			G4/750
BL (0°-30°)	1336.5	3.0	B3/2500		
BM (30°-60°)	3053.5	6.8	B3/5000		
BH (60°-80°)	631.2	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2
2.5°	6189.1	6241.5	6251.3	6267.6	6267.6	6287.3	6320.0	6365.9	6441.2	6480.5
5°	5704.4	5743.7	5792.8	5832.1	5907.4	5917.3	6045.0	6169.4	6343.0	6473.9
7.5°	5216.5	5262.3	5327.8	5422.8	5521.0	5550.5	5743.7	5953.3	6228.4	6473.9
10°	4872.7	4875.9	4934.9	5029.8	5187.0	5223.0	5458.8	5756.8	6100.6	6434.7
12.5°	4679.5	4702.4	4728.6	4800.6	4951.2	4974.2	5226.3	5576.7	5972.9	6411.7
15°	4679.5	4695.8	4712.2	4748.2	4869.4	4889.0	5111.7	5462.1	5907.4	6421.6
17.5°	4728.6	4754.8	4741.7	4784.2	4911.9	4925.0	5121.5	5429.3	5904.2	6483.8
20°	4846.5	4866.1	4839.9	4866.1	4993.8	5020.0	5223.0	5491.6	5959.8	6591.8
22.5°	5033.1	5042.9	4980.7	5000.4	5131.4	5164.1	5399.9	5668.4	6094.1	6765.4
25°	5268.9	5288.5	5193.6	5216.5	5340.9	5380.2	5652.0	5933.6	6306.9	7004.4
27.5°	5540.7	5550.5	5468.6	5465.4	5625.8	5681.5	5956.6	6261.1	6591.8	7305.7
30°	5851.8	5881.2	5802.6	5789.6	5992.6	6038.4	6310.2	6663.9	7011.0	7757.6
32.5°	6097.4	6120.3	6074.4	6107.2	6313.5	6349.5	6739.2	7233.7	7669.2	8399.4
35°	6451.0	6464.1	6359.3	6418.3	6654.1	6745.7	7325.4	8032.7	8497.7	9205.0
37.5°	7731.4	7731.4	7286.1	6994.6	7220.6	7302.4	8127.6	9038.0	9519.4	10285.6
40°	9503.0	9473.5	8821.9	8225.9	8196.4	8356.9	9270.5	10305.3	10839.0	11582.4
42.5°	11392.4	11346.6	10459.2	9869.7	9771.5	9827.2	10590.2	11867.3	12410.9	13164.0
45°	13069.1	13056.0	12243.9	11451.4	11274.6	11451.4	12237.3	13694.5	14084.2	14876.7
47.5°	14473.9	14473.9	13881.2	13363.8	13272.1	13376.9	14467.3	15721.5	15685.5	16700.6
50°	16091.5	16078.4	15515.2	15292.5	15387.5	15534.9	17034.6	17856.6	17342.5	18491.9
52.5°	17224.6	17303.2	17110.0	17073.9	17558.6	17814.0	19641.2	19945.8	18825.9	20191.4
55°	18121.8	18213.5	18436.2	18688.3	19621.6	19955.6	22166.0	21926.9	20067.0	21665.0
57.5°	19392.4	19261.4	19605.2	20103.0	21612.6	22015.4	24612.1	23796.8	21065.7	22860.2
60°	20934.7	20954.4	21013.3	21642.1	23600.3	24117.7	27022.3	25565.1	21707.5	23593.7
62.5°	22788.2	22817.6	22938.8	23904.8	26269.1	26757.0	29589.6	27012.4	22002.3	23387.4
65°	22660.5	22784.9	24137.3	27441.4	30326.4	30807.7	32585.9	28027.6	21556.9	21501.2
67.5°	20643.3	20846.3	23109.1	31665.7	36443.4	36980.4	36207.6	28227.3	19634.7	16720.3
70°	17997.4	18069.4	20790.6	35464.3	43526.4	44070.0	39449.5	26030.1	14899.6	9326.2
72.5°	14054.7	14071.1	17263.9	36345.2	47370.8	47400.3	36905.1	19323.6	8013.0	3582.4
75°	10040.0	9941.8	11562.7	29475.0	41676.3	42010.3	27667.4	9064.2	3061.8	1693.0
77.5°	5383.5	5491.6	6542.7	17480.0	28790.6	29360.4	15096.1	2613.2	1558.7	1152.7
80°	1663.5	1755.2	2681.9	8003.2	16307.7	16651.5	5596.3	1162.5	1087.2	821.9
82.5°	523.9	543.6	1250.9	3363.0	6768.7	6925.8	1620.9	658.2	743.3	543.6
85°	150.6	153.9	556.7	1254.2	1673.3	1706.1	455.2	255.4	425.7	337.3
87.5°	16.4	52.4	209.6	209.6	147.4	144.1	49.1	55.7	121.2	42.6
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°
6477.2	0°	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2	6477.2
6506.7	2.5°	6490.3	6493.6	6451.0	6379.0	6300.4	6234.9	6153.0	6087.5	6041.7	6028.6
6565.6	5°	6536.2	6513.2	6392.1	6172.7	5910.7	5684.8	5432.6	5232.9	5101.9	5046.2
6627.9	7.5°	6604.9	6539.4	6274.2	5841.9	5340.9	4895.6	4443.7	4093.3	3870.6	3759.3
6686.8	10°	6663.9	6532.9	6077.7	5363.8	4597.6	3923.0	3313.9	2891.5	2655.7	2544.4
6755.6	12.5°	6719.5	6529.6	5822.3	4797.3	3759.3	2934.1	2367.6	2158.0	2092.5	2069.6
6866.9	15°	6824.3	6539.4	5501.4	4149.0	2924.2	2216.9	2010.6	2007.4	2020.4	2013.9
7037.2	17.5°	6968.4	6549.3	5137.9	3461.3	2256.2	1955.0	1945.1	1974.6	1994.3	1984.4
7250.0	20°	7155.1	6588.6	4751.5	2780.2	1938.6	1889.5	1912.4	1938.6	1955.0	1938.6
7534.9	22.5°	7417.0	6657.3	4329.1	2233.3	1837.1	1850.2	1869.8	1899.3	1915.7	1892.7
7898.4	25°	7738.0	6765.4	3913.2	1941.9	1787.9	1804.3	1833.8	1866.5	1886.2	1863.3
8356.9	27.5°	8153.8	6938.9	3530.1	1876.4	1738.8	1748.7	1791.2	1840.3	1866.5	1837.1
9008.5	30°	8756.4	7223.8	3199.3	1905.8	1709.4	1686.4	1745.4	1814.1	1843.6	1817.4
9895.9	32.5°	9555.4	7626.6	2996.3	1951.7	1696.3	1614.4	1670.1	1758.5	1807.6	1791.2
11055.2	35°	10603.3	8239.0	2917.7	2004.1	1686.4	1539.1	1578.4	1673.3	1758.5	1774.9
12515.6	37.5°	11873.8	9090.4	2940.6	2027.0	1657.0	1476.9	1496.5	1578.4	1689.7	1742.1
14159.5	40°	13317.9	10082.6	3071.6	2004.1	1624.2	1424.5	1427.7	1490.0	1588.2	1666.8
15927.8	42.5°	14807.9	11241.8	3313.9	1918.9	1594.7	1378.6	1368.8	1411.4	1476.9	1532.5
17692.8	45°	16225.8	12433.8	3553.0	1801.0	1558.7	1332.8	1309.9	1326.2	1339.3	1362.2
19412.0	47.5°	17463.6	13272.1	3484.2	1693.0	1509.6	1280.4	1241.1	1234.5	1195.2	1192.0
20947.8	50°	18318.3	13455.5	3094.5	1584.9	1437.6	1221.4	1159.2	1119.9	1051.2	1018.4
22097.2	52.5°	18590.1	12731.8	2528.0	1476.9	1319.7	1142.8	1054.4	992.2	907.1	877.6
22758.7	55°	18229.9	11313.9	2020.4	1345.9	1155.9	1038.1	939.8	858.0	789.2	753.2
22830.7	57.5°	17349.0	9509.5	1598.0	1192.0	982.4	920.2	821.9	740.1	681.1	645.1
22031.7	60°	15888.5	7551.3	1264.0	1008.6	838.3	792.5	690.9	638.6	586.2	543.6
19968.7	62.5°	13671.6	5390.0	992.2	799.0	700.8	648.4	589.4	550.1	487.9	429.0
16258.6	65°	10668.8	3297.6	766.3	586.2	563.2	537.0	501.0	465.0	389.7	330.7
10606.5	67.5°	6729.4	1562.0	546.9	442.1	445.4	432.3	415.9	386.4	330.7	278.3
4751.5	70°	2963.5	756.4	360.2	337.3	330.7	330.7	343.8	334.0	281.6	232.5
1650.4	72.5°	1008.6	406.1	268.5	255.4	239.0	235.8	288.2	278.3	225.9	180.1
821.9	75°	527.2	271.8	196.5	183.4	144.1	173.6	229.2	216.1	160.5	117.9
543.6	77.5°	343.8	193.2	134.3	117.9	81.9	114.6	170.3	150.6	95.0	58.9
356.9	80°	216.1	127.7	78.6	55.7	39.3	62.2	91.7	65.5	36.0	13.1
209.6	82.5°	114.6	65.5	29.5	19.6	16.4	19.6	22.9	16.4	6.5	0.0
108.1	85°	45.8	22.9	9.8	6.5	3.3	0.0	6.5	3.3	0.0	0.0
19.6	87.5°	16.4	3.3	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>
6477.2
6051.5
5065.9
3775.7
2547.7
2063.0
2010.6
1981.2
1935.3
1889.5
1860.0
1837.1
1814.1
1791.2
1774.9
1755.2
1693.0
1555.5
1375.3
1188.7
1021.7
874.3
753.2
638.6
533.8
419.2
320.9
271.8
222.7
170.3
108.1
52.4
9.8
0.0
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