

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: P943457

Luminaire Tested: **GALN-SB7D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52476 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

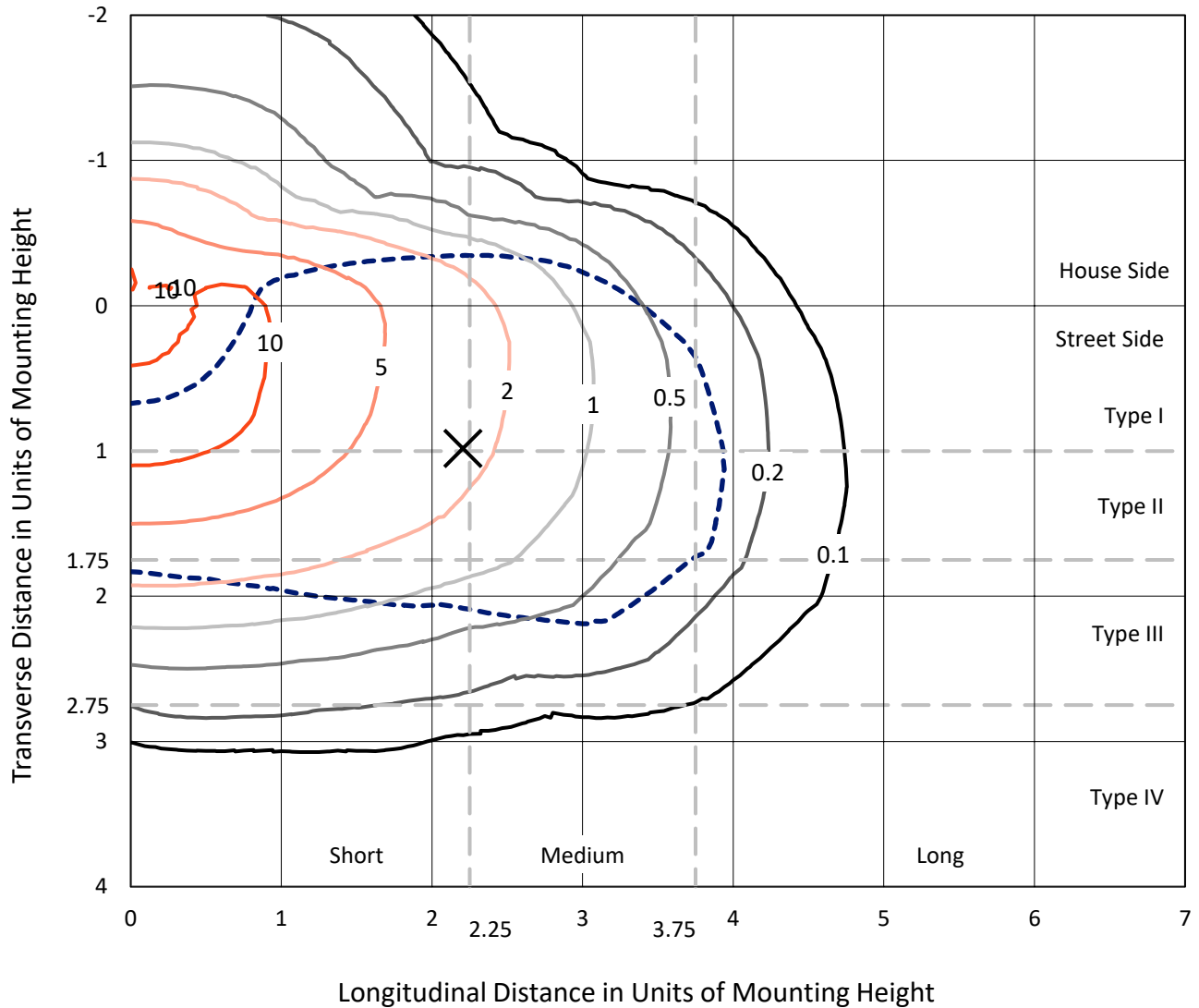
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

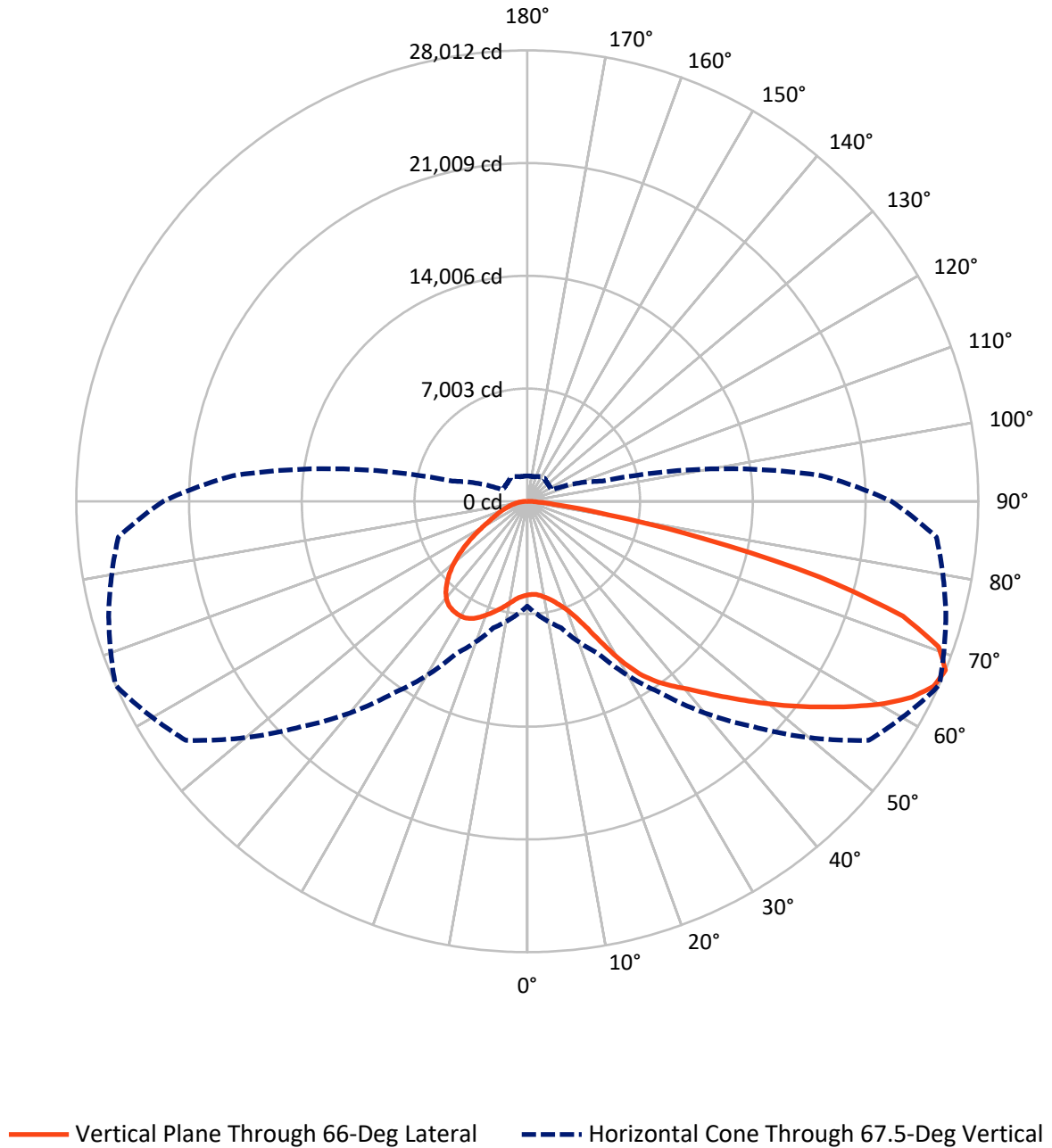
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13048.0	0.0	13048.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	39428.0	0.0	39428.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	52476.0	0.0	52476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.1	1.1
10°-20°	1906.5	3.6
20°-30°	3674.7	7.0
30°-40°	6443.1	12.3
40°-50°	9578.8	18.3
50°-60°	12142.1	23.1
60°-70°	11880.7	22.6
70°-80°	5667.2	10.8
80°-90°	605.7	1.2
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°	52476.0	100.0
0°-180°	52476.0	100.0

Coefficient of Utilization



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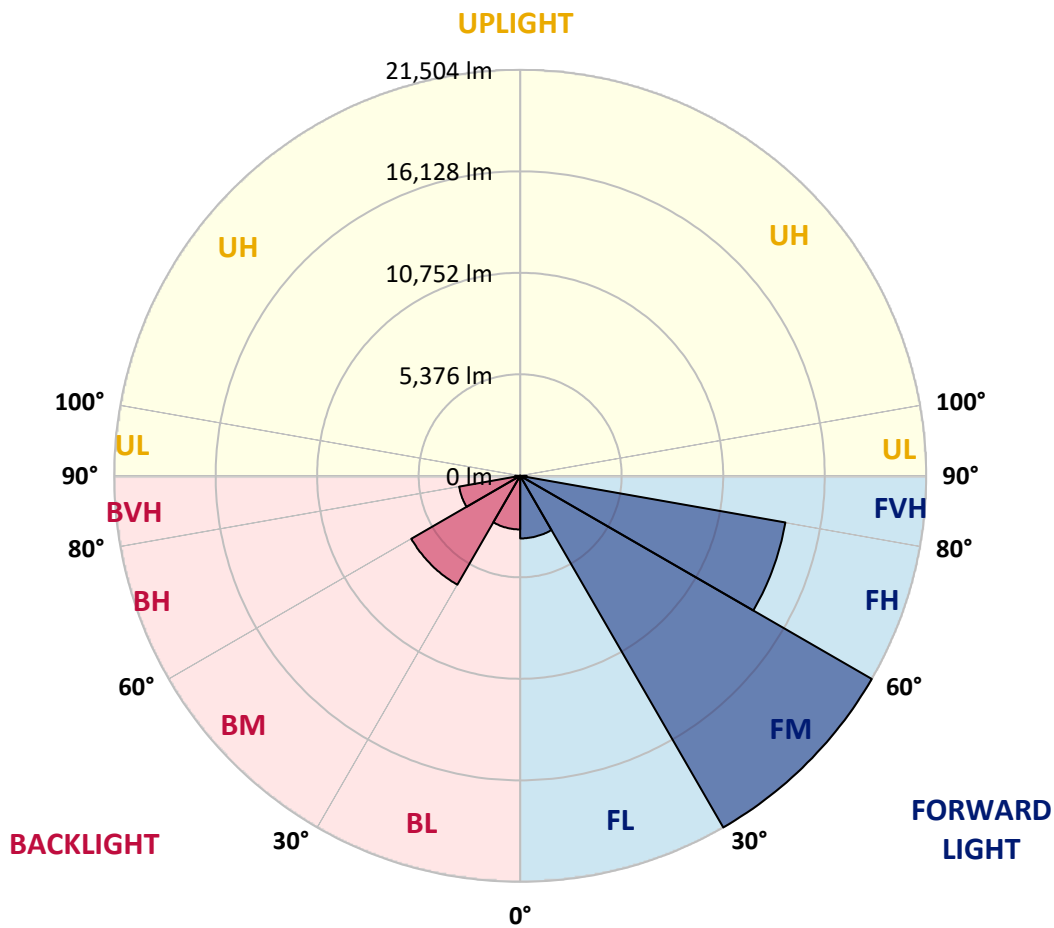
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3316.0	6.3			
FM (30°-60°)	21504.2	41.0			
FH (60°-80°)	14264.4	27.2			G5
FVH (80°-90°)	343.4	0.7			G3/500
BL (0°-30°)	2842.3	5.4	B4/5000		
BM (30°-60°)	6659.9	12.7	B4/8500		
BH (60°-80°)	3283.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	262.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3
2.5°	5759.6	5792.7	5784.4	5770.7	5767.9	5773.4	5781.7	5790.0	5787.2	5801.0
5°	5743.1	5776.2	5773.4	5773.4	5784.4	5806.5	5820.3	5834.1	5820.3	5836.8
7.5°	5754.1	5778.9	5790.0	5801.0	5828.6	5869.9	5903.0	5933.3	5916.8	5936.1
10°	5894.7	5914.0	5925.1	5925.1	5944.4	5991.2	6024.3	6079.5	6065.7	6096.0
12.5°	6151.1	6170.4	6170.4	6159.4	6173.2	6203.5	6214.6	6275.2	6250.4	6300.0
15°	6465.4	6504.0	6473.7	6454.4	6459.9	6490.3	6487.5	6534.4	6509.6	6550.9
17.5°	6812.8	6862.5	6812.8	6810.1	6799.1	6832.1	6834.9	6876.3	6832.1	6862.5
20°	7223.7	7292.6	7251.2	7265.0	7240.2	7254.0	7267.8	7328.4	7259.5	7281.6
22.5°	7802.7	7885.4	7841.3	7893.6	7877.1	7866.1	7863.3	7970.8	7863.3	7871.6
25°	8646.3	8745.6	8668.4	8740.1	8740.1	8775.9	8817.3	8955.1	8775.9	8723.5
27.5°	9892.5	9991.8	9840.2	9884.3	9870.5	9958.7	9914.6	10256.5	10063.5	9978.0
30°	11392.4	11568.9	11282.1	11271.1	11257.3	11397.9	11461.4	11687.4	11491.7	11406.2
32.5°	13013.6	13198.3	12856.5	12757.2	12704.8	12790.3	12737.9	12919.9	12784.8	12652.4
35°	14728.5	14910.5	14585.2	14392.2	14182.6	14003.4	13815.9	13862.8	13736.0	13534.7
37.5°	16349.7	16683.3	16338.7	16131.9	15745.9	15395.8	14871.9	14654.1	14535.5	14350.8
40°	18001.2	18191.5	17929.6	17753.1	17334.0	16785.4	15947.2	15486.7	15326.8	15147.6
42.5°	19217.1	19399.1	19258.5	19137.2	18809.1	18172.2	17088.6	16512.4	16280.8	16079.5
45°	20182.1	20317.2	20229.0	20273.1	20132.5	19514.9	18271.4	17612.5	17372.6	17127.2
47.5°	20570.9	20714.2	20854.9	21116.8	21356.7	20901.7	19542.5	18803.6	18549.9	18299.0
50°	20526.8	20672.9	21080.9	21637.9	22382.3	22230.7	20882.4	20071.8	19837.5	19550.7
52.5°	20173.9	20339.3	20863.1	21789.5	22975.1	23226.0	22247.2	21381.5	21160.9	20819.0
55°	19247.5	19346.7	20132.5	21444.9	23115.7	23920.8	23584.4	22776.6	22556.0	22079.0
57.5°	17529.8	17673.1	18817.3	20515.7	22762.8	24392.2	24758.9	24243.4	24031.1	23344.5
60°	15288.2	15517.1	16826.7	18955.2	21864.0	24389.5	25826.0	25685.3	25508.9	24590.8
62.5°	12751.7	13016.4	14276.4	16749.5	20292.4	23697.5	26493.2	26893.0	26802.0	25740.5
65°	9793.3	9975.3	11229.8	13895.9	17846.8	22211.4	26570.4	27717.3	27733.9	26614.5
67.5°	6520.6	7044.4	8133.5	10427.4	14571.4	19782.3	25892.1	27852.4	28012.3	26915.0
70°	3181.7	3871.0	4938.0	6777.0	10427.4	16057.5	24119.3	26744.1	27099.7	26038.2
72.5°	1320.7	1544.0	2125.7	3344.4	5985.7	10835.5	20557.1	23738.8	24397.8	23071.6
75°	890.6	965.0	1215.9	1714.9	2726.8	5343.3	14825.0	17700.7	18762.2	17425.0
77.5°	686.5	733.4	885.0	1199.3	1621.2	2021.0	7935.0	10667.3	11216.0	10383.3
80°	540.4	576.2	661.7	874.0	1149.7	1080.8	2704.7	4833.2	5150.3	4320.4
82.5°	468.7	482.5	474.2	592.8	763.7	631.4	887.8	1783.9	1968.6	1428.2
85°	339.1	377.7	394.3	366.7	405.3	319.8	363.9	631.4	694.8	620.4
87.5°	137.9	204.0	250.9	237.1	148.9	91.0	113.0	184.7	212.3	231.6
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°
5820.3	0°	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3	5820.3
5823.0	2.5°	5825.8	5845.1	5858.9	5875.4	5886.5	5903.0	5936.1	5955.4	5958.1	5971.9
5867.2	5°	5878.2	5905.8	5936.1	5980.2	6029.8	6071.2	6134.6	6178.7	6195.3	6209.0
5974.7	7.5°	5991.2	6029.8	6085.0	6162.2	6233.9	6289.0	6366.2	6418.6	6471.0	6490.3
6145.6	10°	6159.4	6214.6	6294.5	6399.3	6476.5	6548.2	6628.1	6672.2	6724.6	6746.7
6349.6	12.5°	6368.9	6426.8	6531.6	6677.7	6749.4	6799.1	6826.6	6815.6	6826.6	6845.9
6595.0	15°	6608.8	6672.2	6790.8	6947.9	6997.6	6953.5	6892.8	6837.7	6829.4	6834.9
6892.8	17.5°	6892.8	6939.7	7077.5	7209.9	7174.0	6992.1	6859.7	6771.5	6727.4	6713.6
7273.3	20°	7289.8	7289.8	7402.9	7485.6	7245.7	6936.9	6730.1	6586.8	6495.8	6457.2
7791.6	22.5°	7772.3	7728.2	7799.9	7742.0	7231.9	6782.5	6495.8	6247.6	6109.8	6054.6
8516.7	25°	8384.4	8332.0	8312.7	7954.3	7132.7	6537.1	6071.2	5770.7	5649.3	5619.0
9561.7	27.5°	9308.0	9175.7	8924.8	8070.1	6950.7	6151.1	5574.9	5296.4	5227.5	5230.3
10904.4	30°	10537.7	10273.0	9658.2	8089.4	6652.9	5605.2	5067.6	4869.1	4836.0	4849.8
12032.1	32.5°	11676.4	11425.5	10408.1	8001.2	6195.3	5070.3	4612.7	4480.3	4430.7	4447.2
12892.3	35°	12569.7	12500.8	11102.9	7877.1	5632.8	4568.5	4204.6	4091.6	3995.1	3973.0
13702.9	37.5°	13413.4	13385.8	11624.0	7703.4	5075.9	4212.9	3876.5	3727.6	3587.0	3509.8
14599.0	40°	14339.8	14312.2	11965.9	7436.0	4582.3	3904.1	3581.5	3385.7	3212.0	3071.4
15613.6	42.5°	15382.0	15219.3	12128.6	7052.7	4163.3	3642.2	3341.6	3076.9	2848.1	2718.5
16760.5	45°	16520.7	16154.0	12125.8	6564.7	3810.3	3402.3	3085.2	2710.2	2498.0	2376.6
17937.8	47.5°	17728.3	17047.3	11976.9	6024.3	3468.5	3137.6	2688.2	2401.5	2260.8	2186.4
19217.1	50°	18974.5	17882.7	11723.3	5404.0	3118.3	2837.1	2440.1	2244.3	2136.8	2067.8
20485.4	52.5°	20146.3	18640.9	11417.2	4700.9	2762.6	2544.8	2329.8	2178.1	2065.1	1987.9
21715.1	55°	21235.3	19294.3	10984.4	3981.3	2473.1	2349.1	2277.4	2150.6	2021.0	1930.0
22964.1	57.5°	22203.1	19718.9	10237.2	3305.8	2266.4	2214.0	2222.2	2103.7	1954.8	1877.6
24193.7	60°	23008.2	20030.5	9131.6	2679.9	2098.2	2081.6	2136.8	2015.5	1841.8	1753.5
25233.2	62.5°	23490.7	20025.0	7775.1	2194.7	1954.8	1960.3	2023.7	1905.2	1728.7	1646.0
25776.3	65°	23449.3	19534.2	6286.2	1877.6	1816.9	1822.5	1905.2	1783.9	1635.0	1585.3
25503.4	67.5°	22619.4	18337.6	4822.2	1670.8	1665.3	1690.1	1786.6	1701.1	1577.1	1571.6
23876.7	70°	20372.4	15853.4	3474.0	1505.4	1508.1	1544.0	1670.8	1648.8	1546.7	1557.8
20074.6	72.5°	16335.9	12087.2	2332.5	1331.7	1334.4	1392.3	1560.5	1607.4	1516.4	1662.5
14243.3	75°	10879.6	7538.0	1499.9	1147.0	1149.7	1224.2	1464.0	1527.4	1433.7	1657.0
7411.1	77.5°	5227.5	3388.5	1086.3	965.0	965.0	1033.9	1265.5	1367.5	1221.4	1287.6
2382.2	80°	1805.9	1273.8	854.7	777.5	761.0	807.8	1067.0	1185.6	1053.2	970.5
777.5	82.5°	711.3	661.7	686.5	603.8	548.7	579.0	829.9	978.8	774.8	700.3
438.4	85°	408.1	430.1	485.3	399.8	317.1	355.7	609.3	703.1	584.5	515.6
143.4	87.5°	110.3	151.6	223.3	206.8	143.4	151.6	289.5	388.8	336.4	259.2
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>
5820.3
5969.2
6206.3
6493.0
6757.7
6851.4
6854.2
6732.9
6448.9
6046.4
5624.5
5238.5
4896.6
4469.3
3989.6
3512.6
3085.2
2726.8
2371.1
2169.9
2043.0
1954.8
1894.1
1828.0
1714.9
1621.2
1582.6
1579.8
1555.0
1684.6
1670.8
1180.0
909.8
697.6
526.6
267.4
0.0

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