

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: P942774

Luminaire Tested: **GALN-SB6D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942774
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-SB6D-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 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: 32653 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

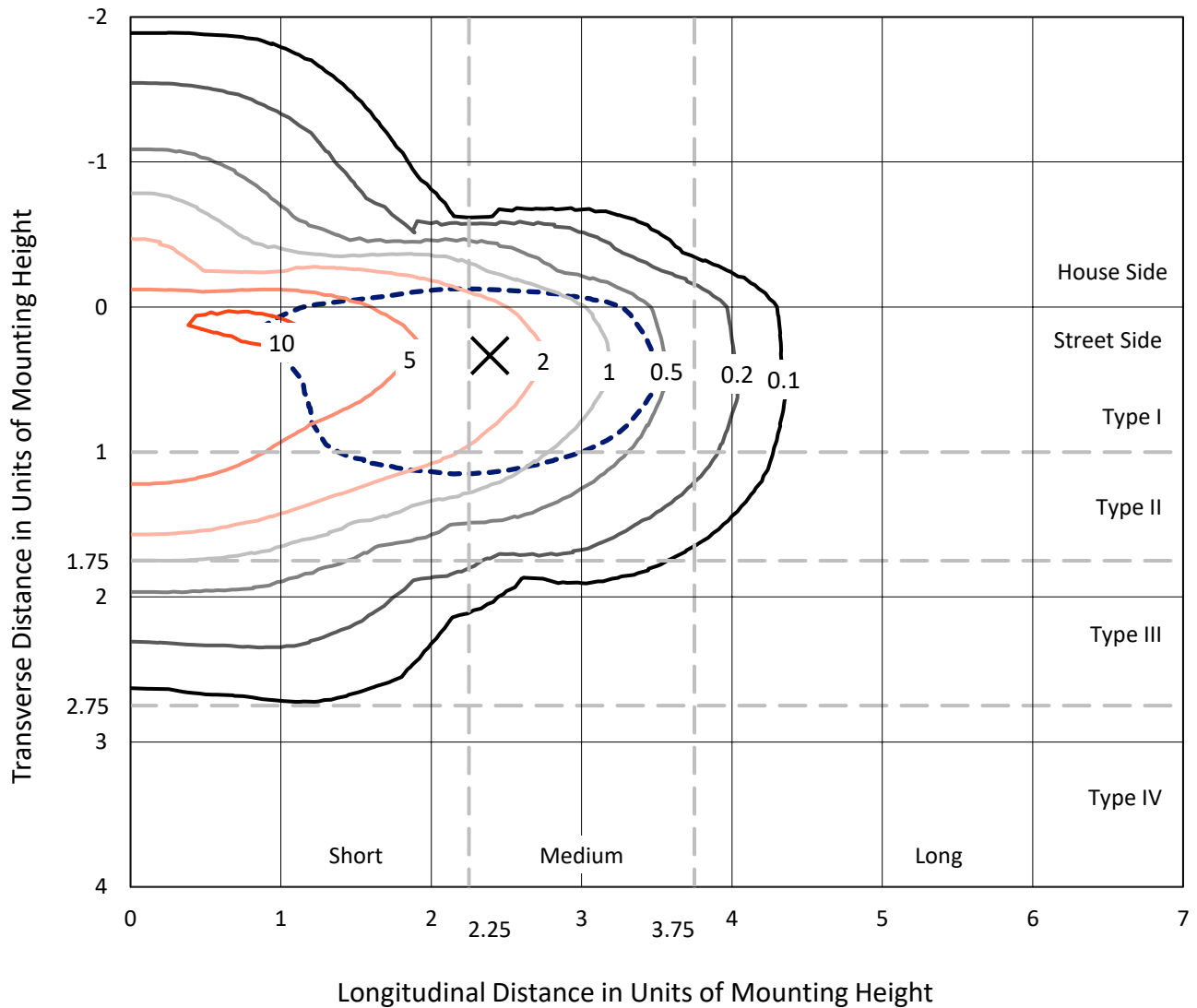
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

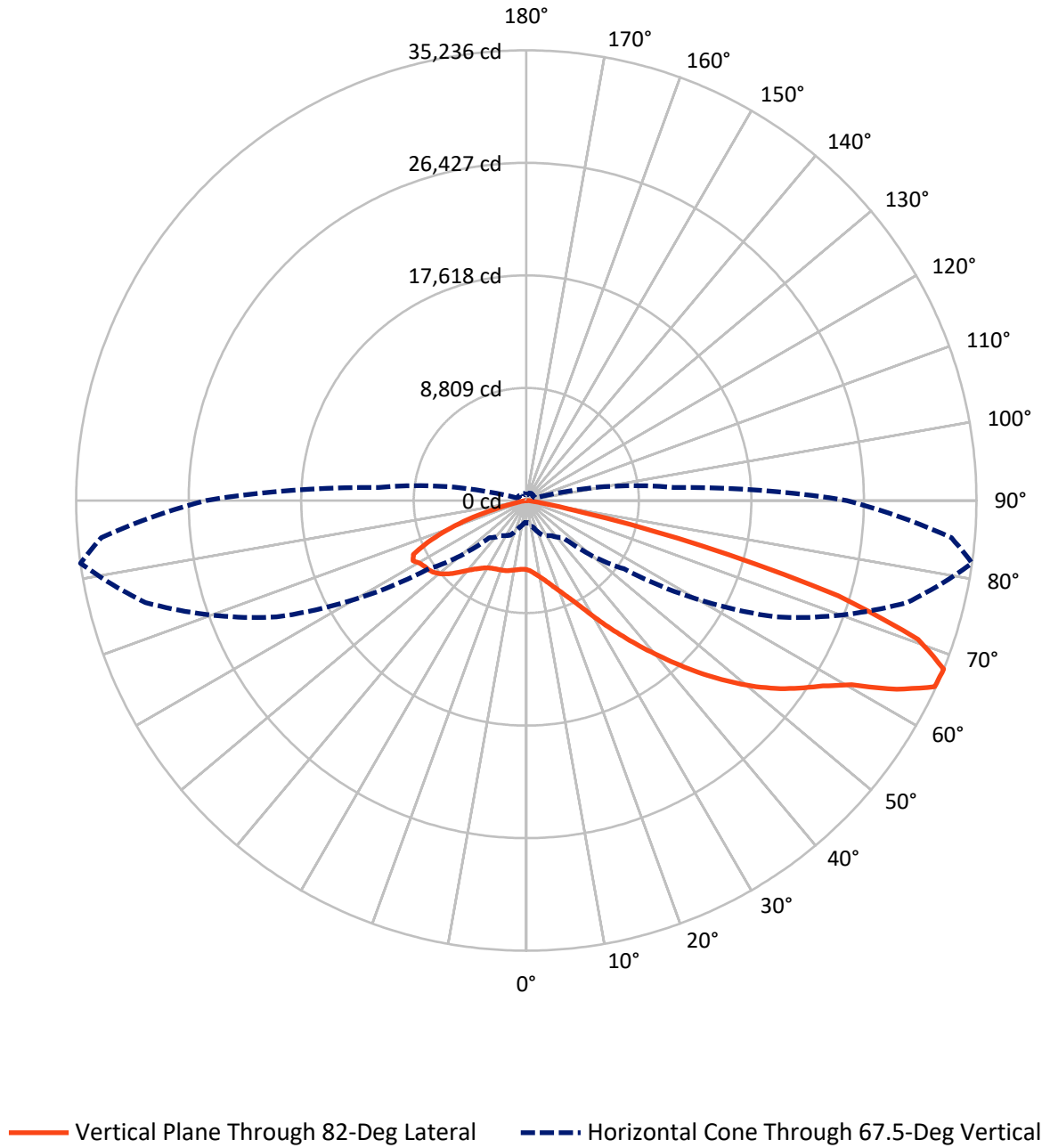
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5914.8	0.0	5914.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26738.2	0.0	26738.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	32653.0	0.0	32653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	1.5
10°-20°	1252.4	3.8
20°-30°	2005.9	6.1
30°-40°	3547.1	10.9
40°-50°	6214.8	19.0
50°-60°	8288.8	25.4
60°-70°	7716.5	23.6
70°-80°	2961.6	9.1
80°-90°	184.0	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°	32653.0	100.0
0°-180°	32653.0	100.0

Coefficient of Utilization



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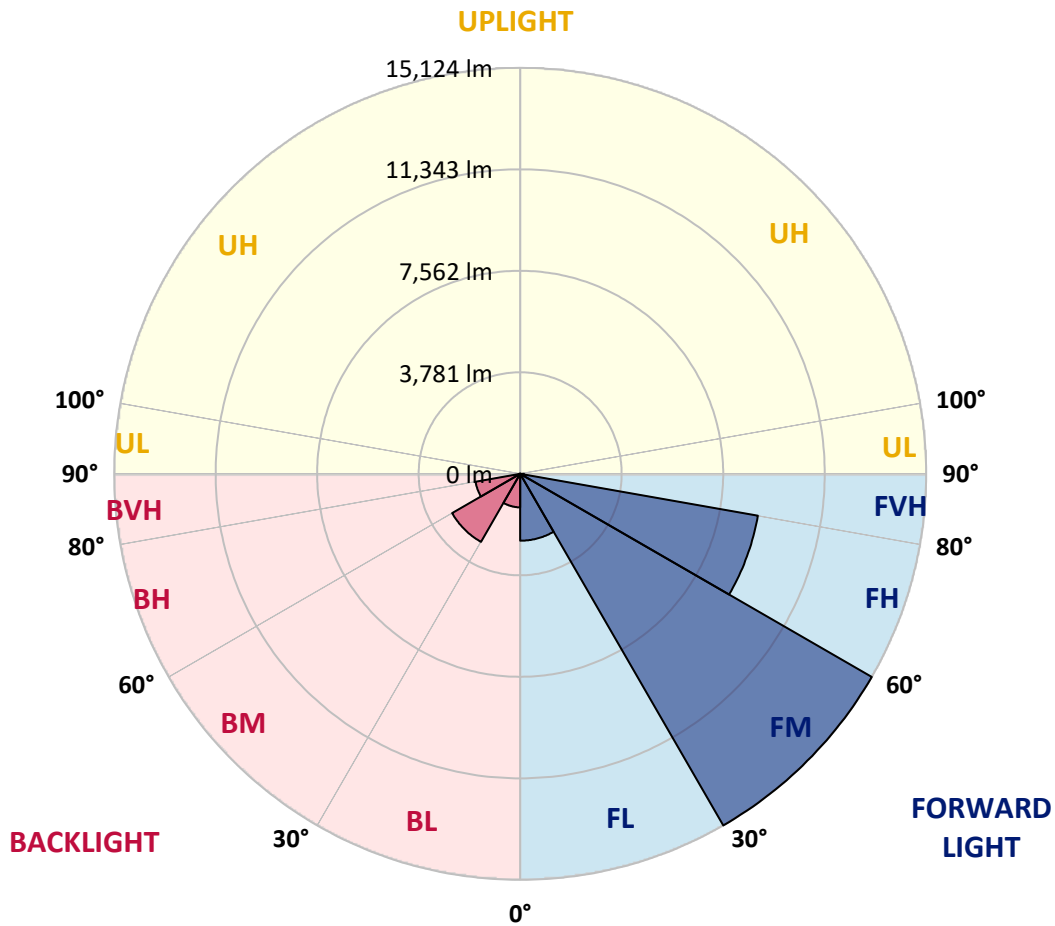
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.1	7.6			
FM (30°-60°)	15123.5	46.3			
FH (60°-80°)	8989.9	27.5			G4/12000
FVH (80°-90°)	133.7	0.4			G2/225
BL (0°-30°)	1249.2	3.8	B3/2500		
BM (30°-60°)	2927.2	9.0	B3/5000		
BH (60°-80°)	1688.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	50.2	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°	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5
2.5°	5717.5	5750.4	5731.6	5722.2	5705.7	5682.2	5663.4	5604.6	5543.5	5503.5
5°	5832.7	5865.6	5863.2	5872.6	5884.4	5891.4	5886.7	5820.9	5733.9	5665.7
7.5°	5733.9	5771.5	5802.1	5849.1	5931.4	6018.4	6060.7	6046.6	5957.3	5863.2
10°	5454.2	5494.1	5567.0	5677.5	5851.5	6039.5	6197.1	6269.9	6213.5	6110.1
12.5°	4941.7	4981.6	5125.0	5364.8	5656.3	5983.1	6284.0	6479.2	6493.3	6389.8
15°	4365.7	4405.6	4558.5	4859.4	5303.7	5828.0	6331.1	6700.2	6824.8	6735.4
17.5°	4008.3	4043.6	4158.8	4400.9	4864.1	5517.6	6314.6	6935.3	7219.7	7149.2
20°	3900.2	3930.8	3984.8	4154.1	4539.7	5195.6	6206.5	7156.2	7645.2	7605.3
22.5°	4015.4	4043.6	4060.1	4135.3	4377.4	4984.0	6070.1	7381.9	8138.9	8143.6
25°	4281.0	4309.3	4290.5	4337.5	4443.3	4918.2	6018.4	7647.6	8759.6	8811.3
27.5°	4718.3	4720.7	4676.0	4673.7	4690.1	5016.9	6072.5	7932.0	9542.4	9638.8
30°	5595.2	5560.0	5388.3	5202.6	5118.0	5313.1	6222.9	8268.2	10466.4	10638.0
32.5°	6947.0	6895.3	6580.3	6135.9	5689.3	5790.3	6493.3	8651.4	11472.6	11782.9
35°	8414.0	8399.9	8070.8	7410.1	6629.6	6469.8	6932.9	9154.5	12570.4	13064.1
37.5°	9777.5	9770.5	9582.4	8804.2	7854.5	7417.2	7638.2	9812.8	13745.9	14460.6
40°	11023.5	11044.7	10856.6	10160.7	9203.9	8632.6	8597.4	10626.2	15053.0	15981.6
42.5°	12100.3	12123.8	11933.3	11418.5	10536.9	9977.4	9775.2	11623.0	16329.6	17615.5
45°	12831.4	12977.2	12948.9	12537.5	11905.1	11324.4	11190.4	12873.7	17784.8	19348.2
47.5°	13038.3	13172.3	13383.9	13440.3	13054.7	12483.5	12643.3	14380.7	19256.5	21083.2
50°	12528.1	12652.7	13092.3	13677.7	13945.7	13769.4	14056.2	15995.7	20763.4	22813.5
52.5°	11521.9	11648.9	12203.7	13130.0	14223.1	14778.0	15473.8	17587.3	22223.4	24452.1
55°	10066.7	10200.7	10913.0	11961.5	13694.2	15194.1	16656.4	19176.6	23561.1	25926.1
57.5°	8087.2	8185.9	8926.5	10393.5	12363.6	14780.3	17528.6	20911.5	24821.2	27374.3
60°	5270.8	5357.8	6218.2	7854.5	10158.4	13398.0	17702.5	22846.4	26495.0	29257.4
62.5°	3505.2	3564.0	4074.2	5275.5	7153.9	10743.8	16684.6	24390.9	28949.4	32534.6
65°	2405.0	2463.8	2973.9	3810.9	4621.9	7106.9	13757.7	24186.4	31173.4	35137.0
67.5°	1716.2	1765.6	2198.1	2988.0	3345.4	4128.2	9326.2	21572.2	30853.6	35235.8
70°	1229.5	1257.7	1615.1	2327.4	2658.9	2480.2	5186.2	16498.8	27014.6	32536.9
72.5°	860.4	869.8	1121.4	1772.6	2141.7	1810.2	2468.5	11000.0	20432.0	25538.2
75°	583.0	594.8	754.6	1300.1	1718.5	1382.3	1307.1	5898.5	11994.5	14136.2
77.5°	357.3	362.0	486.6	888.7	1286.0	1053.2	841.6	2499.0	4640.7	4556.1
80°	202.2	202.2	310.3	552.5	876.9	679.4	590.1	1062.6	1469.3	1290.7
82.5°	112.8	115.2	225.7	343.2	580.7	402.0	324.4	491.3	634.8	561.9
85°	47.0	51.7	138.7	162.2	277.4	199.8	131.7	206.9	235.1	209.2
87.5°	4.7	7.1	42.3	30.6	32.9	40.0	18.8	40.0	32.9	32.9
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°
5409.5	0°	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5	5409.5
5489.4	2.5°	5444.8	5409.5	5320.2	5216.7	5080.4	5014.5	4925.2	4864.1	4812.4	4817.1
5625.8	5°	5550.6	5461.2	5261.4	5012.2	4701.9	4480.9	4245.8	4083.6	3951.9	3923.7
5813.9	7.5°	5696.3	5555.3	5205.0	4755.9	4231.7	3834.4	3479.4	3251.3	3089.1	3037.4
6041.9	10°	5884.4	5679.9	5132.1	4433.9	3679.2	3173.8	2792.9	2614.2	2503.7	2466.1
6309.9	12.5°	6103.0	5823.3	5035.7	4041.3	3110.3	2623.6	2381.5	2292.2	2256.9	2245.1
6639.0	15°	6378.1	6001.9	4889.9	3575.8	2628.3	2287.5	2184.0	2172.3	2177.0	2172.3
7034.0	17.5°	6704.9	6197.1	4652.5	3096.2	2303.9	2115.8	2078.2	2087.6	2099.4	2097.0
7476.0	20°	7062.2	6389.8	4349.2	2670.7	2082.9	1993.6	1972.4	1981.8	1991.2	1986.5
7986.1	22.5°	7468.9	6596.7	4013.0	2339.2	1934.8	1880.7	1857.2	1859.6	1859.6	1850.2
8632.6	25°	7955.6	6824.8	3660.4	2104.1	1822.0	1779.7	1751.4	1742.0	1727.9	1699.7
9417.8	27.5°	8536.2	7066.9	3321.9	1939.5	1732.6	1692.7	1659.8	1636.2	1601.0	1554.0
10360.6	30°	9189.8	7360.8	3035.1	1836.1	1662.1	1622.1	1584.5	1549.3	1497.5	1438.8
11444.3	32.5°	9958.6	7675.8	2825.8	1767.9	1598.6	1556.3	1511.6	1469.3	1412.9	1354.1
12662.1	35°	10875.4	8056.6	2703.6	1720.9	1549.3	1492.8	1443.5	1396.5	1354.1	1302.4
13985.7	37.5°	11869.9	8461.0	2666.0	1697.4	1516.4	1429.4	1372.9	1340.0	1335.3	1304.8
15417.4	40°	12958.3	8940.6	2694.2	1683.3	1481.1	1368.2	1307.1	1300.1	1311.8	1257.7
16947.9	42.5°	14110.3	9509.5	2741.2	1666.8	1431.7	1307.1	1248.3	1248.3	1238.9	1163.7
18565.3	45°	15356.3	10165.4	2788.2	1626.8	1372.9	1246.0	1201.3	1184.9	1144.9	1072.0
20192.2	47.5°	16611.7	10833.1	2823.5	1554.0	1302.4	1194.3	1154.3	1116.7	1057.9	992.1
21788.4	50°	17803.6	11432.6	2785.9	1445.8	1222.5	1144.9	1102.6	1050.9	987.4	942.7
23300.1	52.5°	18868.6	11952.1	2626.0	1318.9	1137.9	1093.2	1055.6	1001.5	949.8	902.8
24663.6	55°	19794.9	12373.0	2343.9	1199.0	1062.6	1048.5	1010.9	942.7	872.2	832.2
26015.4	57.5°	20683.5	12692.7	1991.2	1100.2	994.4	999.1	942.7	881.6	815.8	773.5
27837.4	60°	21866.0	13120.6	1633.9	1008.6	921.6	935.7	874.5	829.9	747.6	693.5
30961.8	62.5°	23756.2	13785.9	1297.7	895.7	836.9	841.6	815.8	761.7	663.0	599.5
33277.5	65°	25256.1	13541.4	1022.7	773.5	740.5	747.6	747.6	688.8	583.0	510.2
33402.1	67.5°	25086.8	11594.8	815.8	653.6	648.9	653.6	670.0	620.6	517.2	458.4
30858.3	70°	23109.7	9222.7	653.6	543.1	564.2	552.5	599.5	566.6	465.5	406.7
23923.1	72.5°	18856.8	6643.7	498.4	449.0	432.6	451.4	540.7	510.2	387.9	322.1
12671.5	75°	11018.8	3545.2	371.4	355.0	312.7	376.1	479.6	434.9	296.2	237.4
3883.7	77.5°	3587.5	1236.6	272.7	261.0	232.7	303.3	409.1	366.7	242.1	188.1
1137.9	80°	961.5	373.8	185.7	171.6	150.5	225.7	324.4	291.5	174.0	122.2
489.0	82.5°	385.6	157.5	108.1	96.4	82.3	155.2	256.3	235.1	129.3	77.6
152.8	85°	124.6	51.7	40.0	30.6	37.6	96.4	152.8	159.9	91.7	40.0
23.5	87.5°	16.5	7.1	7.1	9.4	7.1	16.5	47.0	44.7	25.9	4.7
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>
5409.5
4770.0
3860.2
2985.7
2437.9
2238.1
2169.9
2092.3
1984.2
1845.5
1695.0
1549.3
1434.1
1356.5
1297.7
1302.4
1260.1
1163.7
1069.7
989.7
935.7
898.1
827.5
768.8
686.5
594.8
503.1
449.0
399.7
315.0
230.4
181.0
119.9
77.6
30.6
0.0
0.0

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