

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: P944354

Luminaire Tested: **GALN-SB9B-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944354
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-SB9B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA 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: 37453 lumens
Efficiency: N/A
Efficacy: 113.7 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

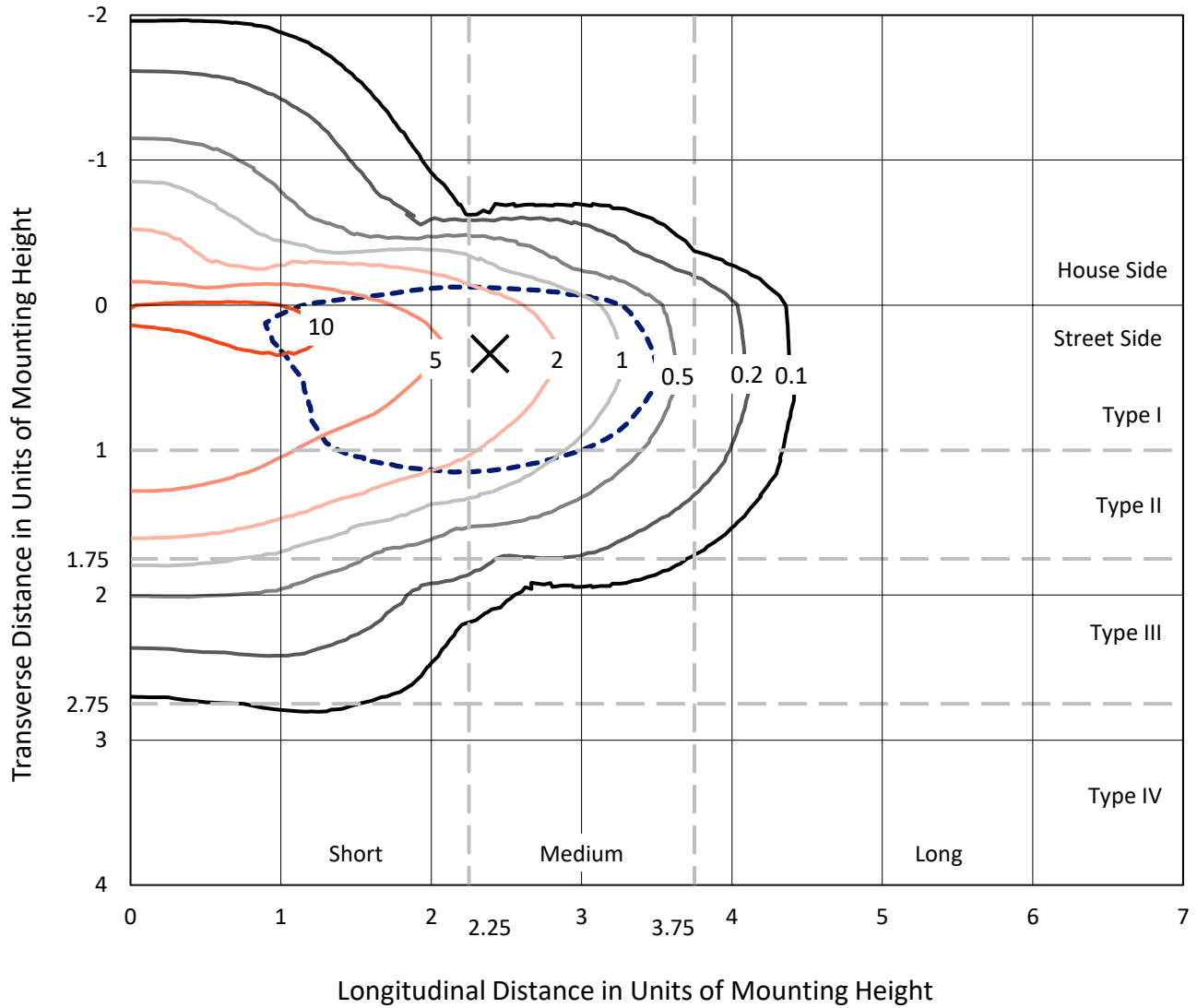
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

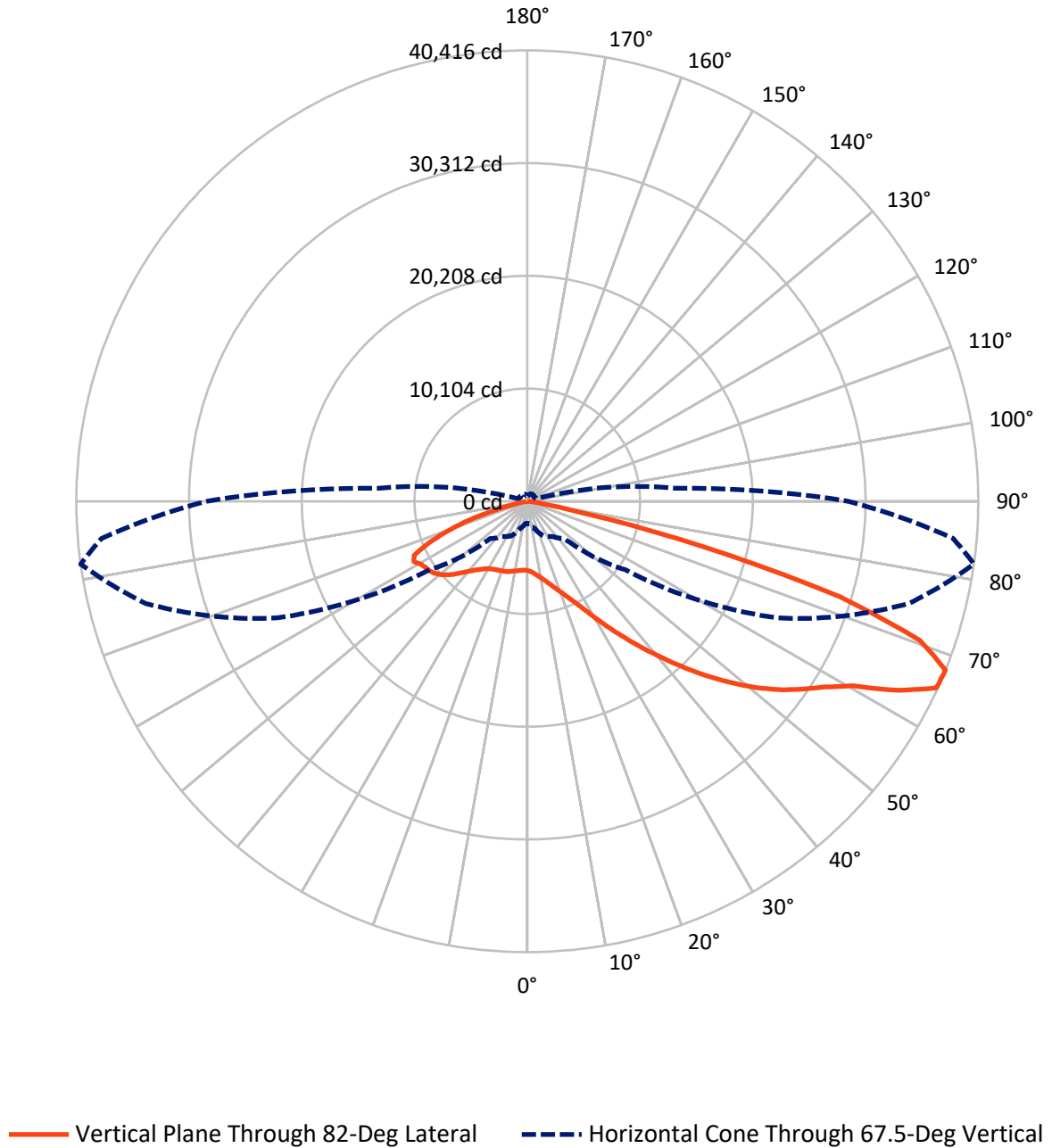
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	6784.3	0.0	6784.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30668.7	0.0	30668.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	37453.0	0.0	37453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	1.5
10°-20°	1436.5	3.8
20°-30°	2300.8	6.1
30°-40°	4068.5	10.9
40°-50°	7128.4	19.0
50°-60°	9507.3	25.4
60°-70°	8850.8	23.6
70°-80°	3396.9	9.1
80°-90°	211.0	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°	37453.0	100.0
0°-180°	37453.0	100.0

Coefficient of Utilization



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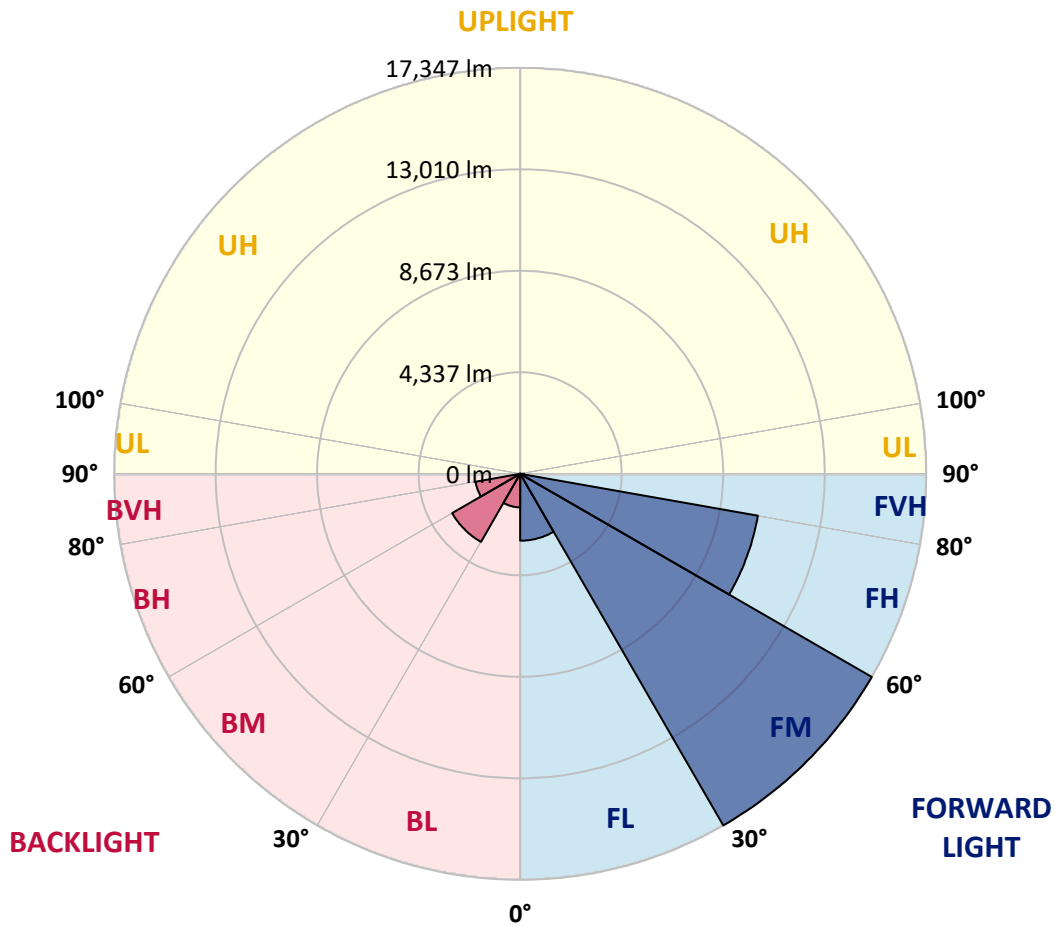
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.2	7.6			
FM (30°-60°)	17346.7	46.3			
FH (60°-80°)	10311.4	27.5			G4/12000
FVH (80°-90°)	153.4	0.4			G2/225
BL (0°-30°)	1432.8	3.8	B3/2500		
BM (30°-60°)	3357.5	9.0	B3/5000		
BH (60°-80°)	1936.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	57.6	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°	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7
2.5°	6557.9	6595.7	6574.1	6563.3	6544.5	6517.5	6495.9	6428.5	6358.4	6312.6
5°	6690.1	6727.8	6725.1	6735.9	6749.4	6757.5	6752.1	6676.6	6576.8	6498.6
7.5°	6576.8	6620.0	6655.0	6708.9	6803.3	6903.1	6951.6	6935.5	6833.0	6725.1
10°	6255.9	6301.8	6385.4	6512.1	6711.6	6927.4	7108.0	7191.6	7126.9	7008.3
12.5°	5668.1	5713.9	5878.4	6153.5	6487.8	6862.6	7207.8	7431.6	7447.8	7329.1
15°	5007.4	5053.3	5228.6	5573.7	6083.4	6684.7	7261.7	7685.1	7828.0	7725.5
17.5°	4597.6	4638.0	4770.1	5047.9	5579.1	6328.7	7242.9	7954.7	8281.0	8200.1
20°	4473.5	4508.6	4570.6	4764.8	5207.0	5959.3	7118.8	8208.2	8769.1	8723.2
22.5°	4605.7	4638.0	4656.9	4743.2	5020.9	5716.6	6962.4	8467.1	9335.4	9340.7
25°	4910.4	4942.7	4921.2	4975.1	5096.4	5641.1	6903.1	8771.8	10047.2	10106.6
27.5°	5411.9	5414.6	5363.4	5360.7	5379.6	5754.4	6965.1	9098.1	10945.2	11055.7
30°	6417.7	6377.3	6180.4	5967.4	5870.3	6094.1	7137.7	9483.7	12004.9	12201.8
32.5°	7968.2	7908.9	7547.6	7037.9	6525.6	6641.5	7447.8	9923.2	13159.0	13515.0
35°	9650.8	9634.7	9257.2	8499.4	7604.2	7420.8	7952.0	10500.3	14418.3	14984.6
37.5°	11214.8	11206.7	10991.0	10098.5	9009.1	8507.5	8761.0	11255.3	15766.6	16586.3
40°	12644.0	12668.3	12452.5	11654.4	10556.9	9901.6	9861.2	12188.3	17265.8	18330.9
42.5°	13879.0	13906.0	13687.5	13097.0	12085.8	11444.0	11212.1	13331.6	18730.0	20205.0
45°	14717.6	14884.8	14852.4	14380.5	13655.2	12989.1	12835.4	14766.1	20399.2	22192.4
47.5°	14954.9	15108.6	15351.3	15416.0	14973.8	14318.5	14501.9	16494.6	22087.2	24182.4
50°	14369.8	14512.7	15016.9	15688.4	15995.8	15793.5	16122.5	18347.1	23815.7	26167.0
52.5°	13215.6	13361.3	13997.6	15060.1	16314.0	16950.3	17748.5	20172.7	25490.2	28046.5
55°	11546.5	11700.2	12517.3	13719.9	15707.2	17427.6	19104.9	21995.5	27024.5	29737.2
57.5°	9276.0	9389.3	10238.7	11921.3	14181.0	16953.0	20105.3	23985.6	28469.9	31398.3
60°	6045.6	6145.4	7132.3	9009.1	11651.7	15367.5	20304.8	26204.8	30389.8	33558.2
62.5°	4020.5	4087.9	4673.1	6051.0	8205.5	12323.1	19137.2	27976.4	33205.0	37317.2
65°	2758.5	2826.0	3411.1	4371.1	5301.4	8151.6	15780.0	27741.8	35755.9	40302.2
67.5°	1968.5	2025.1	2521.2	3427.3	3837.1	4735.1	10697.1	24743.3	35389.1	40415.5
70°	1410.3	1442.6	1852.5	2669.6	3049.8	2844.8	5948.5	18924.2	30985.7	37319.8
72.5°	986.9	997.7	1286.2	2033.2	2456.5	2076.3	2831.3	12617.0	23435.5	29292.3
75°	668.7	682.2	865.6	1491.2	1971.2	1585.6	1499.3	6765.6	13757.6	16214.2
77.5°	409.9	415.3	558.2	1019.3	1475.0	1208.0	965.4	2866.4	5322.9	5225.9
80°	231.9	231.9	355.9	633.7	1005.8	779.3	676.8	1218.8	1685.3	1480.4
82.5°	129.4	132.1	258.9	393.7	666.0	461.1	372.1	563.6	728.1	644.5
85°	53.9	59.3	159.1	186.1	318.2	229.2	151.0	237.3	269.7	240.0
87.5°	5.4	8.1	48.5	35.1	37.8	45.8	21.6	45.8	37.8	37.8
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°
6204.7	0°	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7	6204.7
6296.4	2.5°	6245.1	6204.7	6102.2	5983.6	5827.2	5751.7	5649.2	5579.1	5519.8	5525.2
6452.8	5°	6366.5	6264.0	6034.8	5749.0	5393.0	5139.6	4869.9	4683.9	4532.9	4500.5
6668.5	7.5°	6533.7	6371.9	5970.1	5455.1	4853.7	4398.0	3990.9	3729.3	3543.2	3483.9
6930.1	10°	6749.4	6514.8	5886.5	5085.6	4220.1	3640.3	3203.5	2998.5	2871.8	2828.7
7237.5	12.5°	7000.2	6679.3	5775.9	4635.3	3567.5	3009.3	2731.6	2629.1	2588.7	2575.2
7615.0	15°	7315.7	6884.2	5608.8	4101.4	3014.7	2623.7	2505.1	2491.6	2497.0	2491.6
8068.0	17.5°	7690.5	7108.0	5336.4	3551.3	2642.6	2426.9	2383.7	2394.5	2408.0	2405.3
8574.9	20°	8100.3	7329.1	4988.6	3063.2	2389.1	2286.6	2262.4	2273.2	2284.0	2278.6
9160.1	22.5°	8566.8	7566.4	4603.0	2683.0	2219.2	2157.2	2130.3	2132.9	2132.9	2122.2
9901.6	25°	9125.0	7828.0	4198.5	2413.4	2089.8	2041.3	2008.9	1998.1	1981.9	1949.6
10802.3	27.5°	9791.1	8105.7	3810.2	2224.6	1987.3	1941.5	1903.7	1876.8	1836.3	1782.4
11883.6	30°	10540.7	8442.8	3481.2	2106.0	1906.4	1860.6	1817.5	1777.0	1717.7	1650.3
13126.7	32.5°	11422.5	8804.1	3241.2	2027.8	1833.6	1785.1	1733.9	1685.3	1620.6	1553.2
14523.5	35°	12474.1	9241.0	3101.0	1973.9	1777.0	1712.3	1655.7	1601.7	1553.2	1493.9
16041.6	37.5°	13614.7	9704.8	3057.9	1946.9	1739.3	1639.5	1574.8	1537.0	1531.6	1496.6
17683.8	40°	14863.2	10254.9	3090.2	1930.7	1698.8	1569.4	1499.3	1491.2	1504.7	1442.6
19439.2	42.5°	16184.5	10907.4	3144.1	1911.8	1642.2	1499.3	1431.9	1431.9	1421.1	1334.8
21294.4	45°	17613.7	11659.8	3198.1	1866.0	1574.8	1429.2	1377.9	1359.0	1313.2	1229.6
23160.4	47.5°	19053.6	12425.6	3238.5	1782.4	1493.9	1369.8	1324.0	1280.8	1213.4	1137.9
24991.4	50°	20420.8	13113.2	3195.4	1658.4	1402.2	1313.2	1264.7	1205.3	1132.5	1081.3
26725.2	52.5°	21642.3	13709.1	3012.0	1512.7	1305.1	1253.9	1210.7	1148.7	1089.4	1035.5
28289.2	55°	22704.7	14191.8	2688.4	1375.2	1218.8	1202.6	1159.5	1081.3	1000.4	954.6
29839.7	57.5°	23724.0	14558.5	2284.0	1262.0	1140.6	1146.0	1081.3	1011.2	935.7	887.2
31929.5	60°	25080.3	15049.3	1874.1	1156.8	1057.0	1073.2	1003.1	951.9	857.5	795.5
35513.2	62.5°	27248.3	15812.4	1488.5	1027.4	960.0	965.4	935.7	873.7	760.4	687.6
38169.3	65°	28968.7	15532.0	1173.0	887.2	849.4	857.5	857.5	790.1	668.7	585.1
38312.2	67.5°	28774.6	13299.2	935.7	749.6	744.2	749.6	768.5	711.9	593.2	525.8
35394.5	70°	26506.8	10578.5	749.6	622.9	647.2	633.7	687.6	649.9	533.9	466.5
27439.8	72.5°	21628.8	7620.4	571.7	515.0	496.2	517.7	620.2	585.1	444.9	369.4
14534.2	75°	12638.6	4066.4	426.1	407.2	358.6	431.4	550.1	498.9	339.8	272.3
4454.7	77.5°	4114.9	1418.4	312.8	299.3	267.0	347.9	469.2	420.7	277.7	215.7
1305.1	80°	1102.9	428.7	213.0	196.8	172.6	258.9	372.1	334.4	199.5	140.2
560.9	82.5°	442.2	180.7	124.0	110.6	94.4	178.0	293.9	269.7	148.3	89.0
175.3	85°	142.9	59.3	45.8	35.1	43.1	110.6	175.3	183.4	105.2	45.8
27.0	87.5°	18.9	8.1	8.1	10.8	8.1	18.9	53.9	51.2	29.7	5.4
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>
6204.7
5471.2
4427.7
3424.6
2796.3
2567.1
2488.9
2399.9
2275.9
2116.8
1944.2
1777.0
1644.9
1555.9
1488.5
1493.9
1445.3
1334.8
1226.9
1135.2
1073.2
1030.1
949.2
881.8
787.4
682.2
577.1
515.0
458.4
361.3
264.3
207.6
137.5
89.0
35.1
0.0
0.0

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