

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: P943694

Luminaire Tested: **GALN-SB8B-750-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943694  
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-SB8B-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

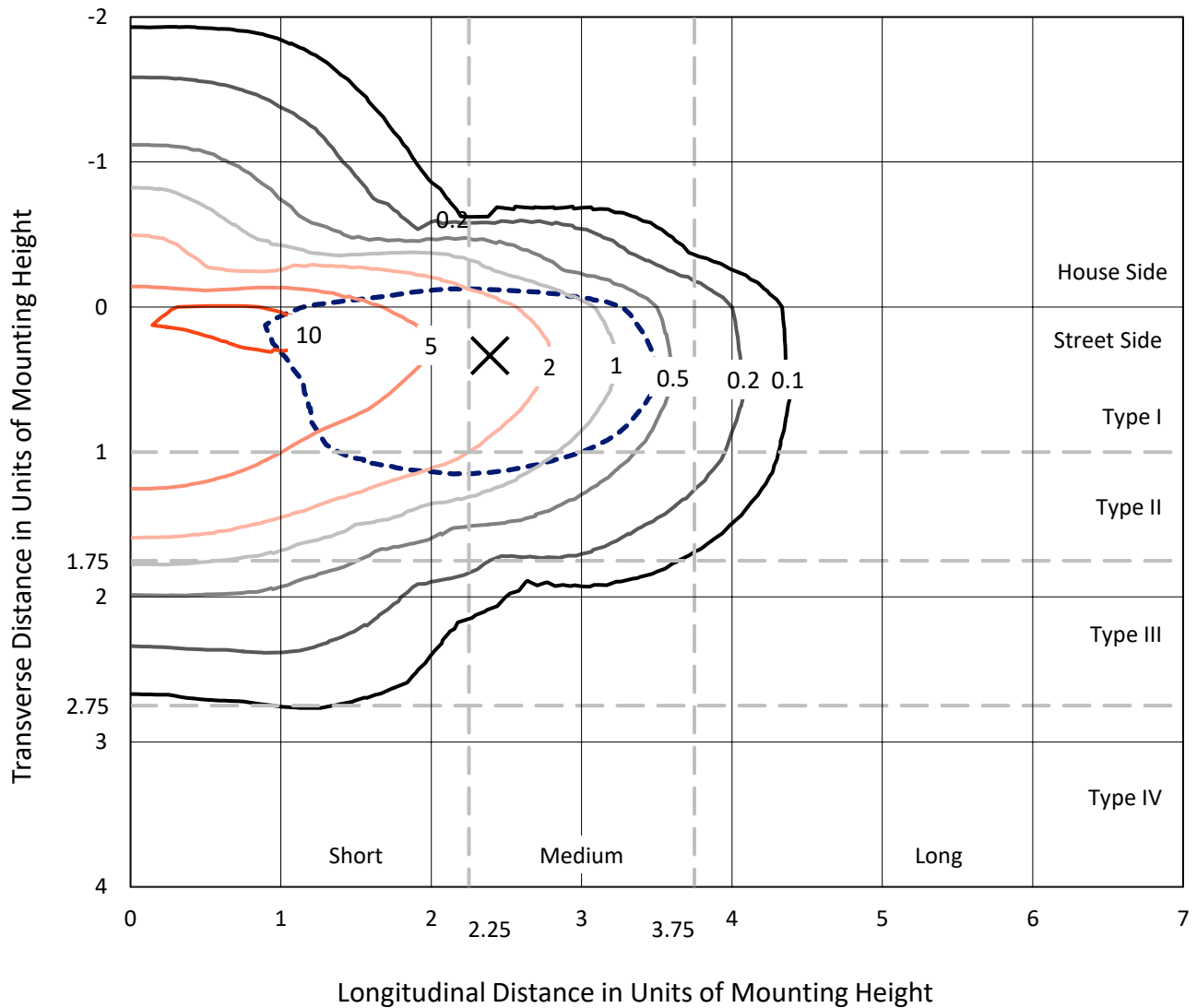
Lumens per Lamp: N/A  
Luminaire Lumens: 35177 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

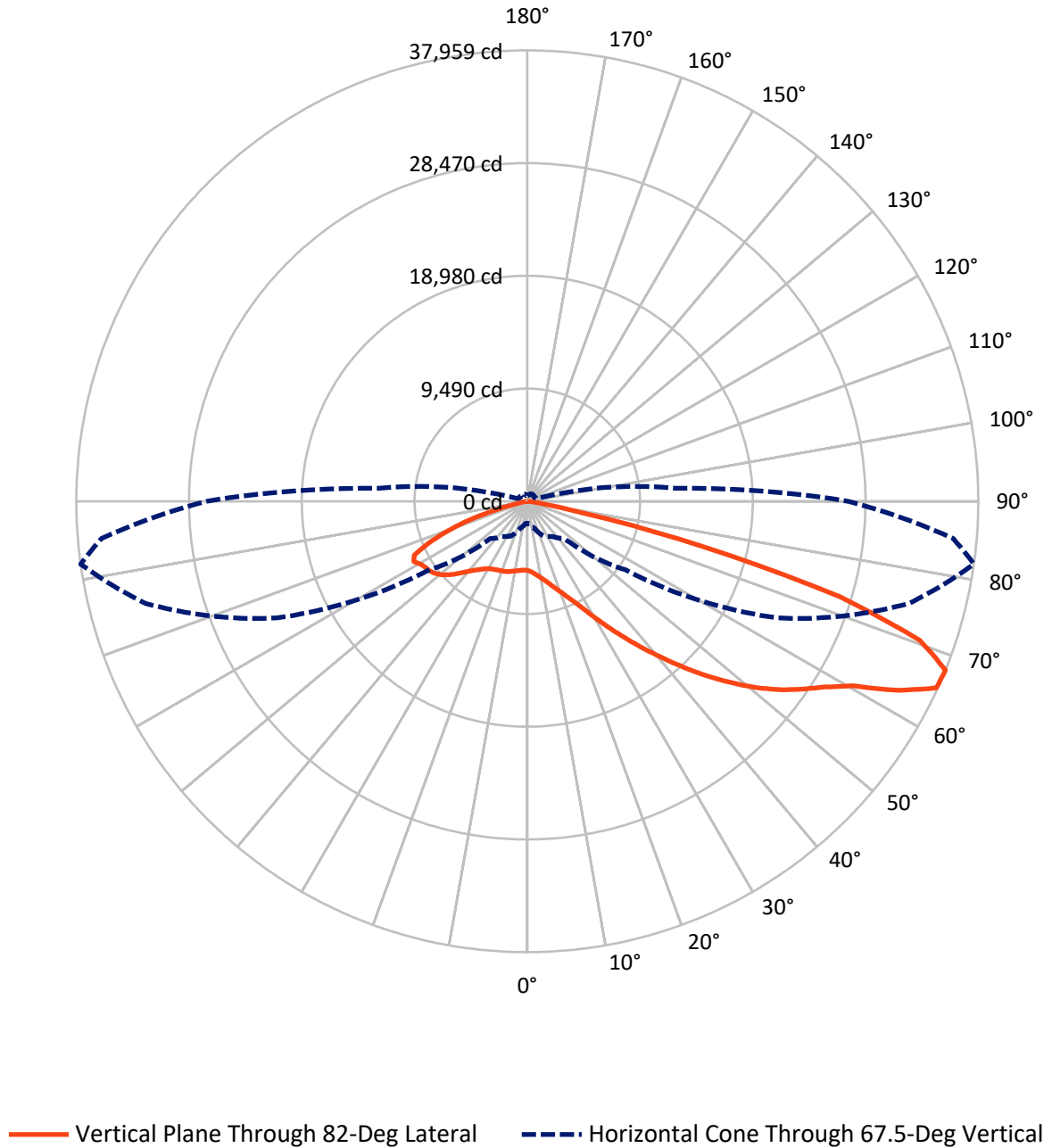
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6372.0	0.0	6372.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	28805.0	0.0	28805.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35177.0	0.0	35177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.2	1.5
10°-20°	1349.2	3.8
20°-30°	2161.0	6.1
30°-40°	3821.3	10.9
40°-50°	6695.2	19.0
50°-60°	8929.5	25.4
60°-70°	8312.9	23.6
70°-80°	3190.5	9.1
80°-90°	198.2	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°	35177.0	100.0
0°-180°	35177.0	100.0

**Coefficient of Utilization**



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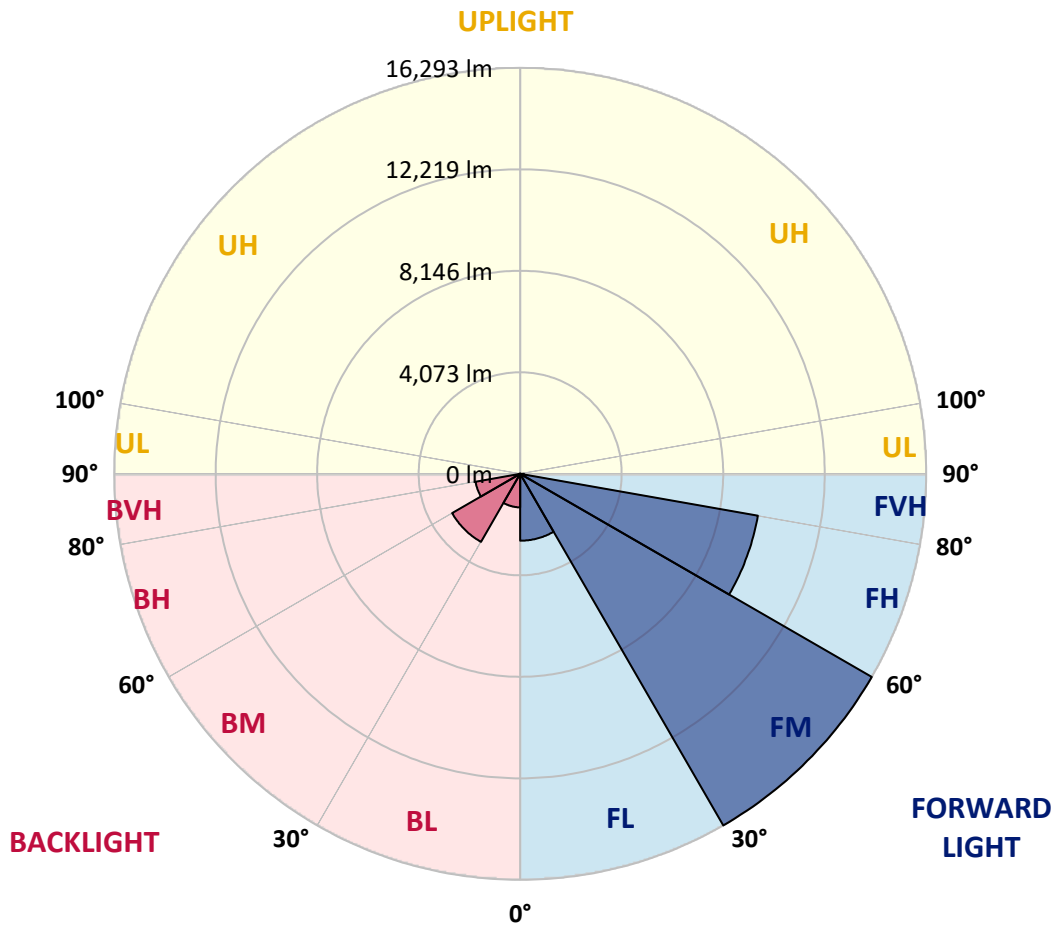
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.6	7.6			
FM (30°-60°)	16292.5	46.3			
FH (60°-80°)	9684.8	27.5			G4/12000
FVH (80°-90°)	144.1	0.4			G2/225
BL (0°-30°)	1345.7	3.8	B3/2500		
BM (30°-60°)	3153.5	9.0	B3/5000		
BH (60°-80°)	1818.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	54.1	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°	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6
2.5°	6159.4	6194.9	6174.6	6164.5	6146.8	6121.4	6101.2	6037.8	5972.0	5928.9
5°	6283.5	6319.0	6316.4	6326.6	6339.2	6346.8	6341.8	6270.9	6177.1	6103.7
7.5°	6177.1	6217.7	6250.6	6301.2	6389.9	6483.6	6529.2	6514.0	6417.7	6316.4
10°	5875.8	5918.8	5997.3	6116.4	6303.8	6506.4	6676.1	6754.6	6693.8	6582.4
12.5°	5323.6	5366.7	5521.2	5779.5	6093.6	6445.6	6769.8	6980.0	6995.2	6883.8
15°	4703.1	4746.2	4910.8	5235.0	5713.7	6278.5	6820.4	7218.1	7352.3	7256.1
17.5°	4318.2	4356.2	4480.3	4741.1	5240.1	5944.1	6802.7	7471.3	7777.8	7701.8
20°	4201.7	4234.6	4292.8	4475.2	4890.6	5597.2	6686.2	7709.4	8236.2	8193.1
22.5°	4325.8	4356.2	4373.9	4454.9	4715.8	5369.2	6539.3	7952.5	8768.1	8773.1
25°	4612.0	4642.4	4622.1	4672.7	4786.7	5298.3	6483.6	8238.7	9436.7	9492.4
27.5°	5083.0	5085.6	5037.5	5034.9	5052.6	5404.7	6541.8	8545.2	10280.0	10383.9
30°	6027.7	5989.7	5804.8	5604.8	5513.6	5723.8	6703.9	8907.3	11275.4	11460.3
32.5°	7484.0	7428.3	7088.9	6610.2	6129.0	6237.9	6995.2	9320.2	12359.4	12693.7
35°	9064.4	9049.2	8694.6	7982.9	7142.1	6969.9	7468.8	9862.2	13542.1	14074.0
37.5°	10533.3	10525.7	10323.1	9484.8	8461.6	7990.5	8228.6	10571.3	14808.4	15578.4
40°	11875.6	11898.4	11695.8	10946.1	9915.3	9299.9	9261.9	11447.6	16216.6	17217.0
42.5°	13035.6	13060.9	12855.8	12301.1	11351.4	10748.6	10530.8	12521.4	17591.8	18977.2
45°	13823.2	13980.3	13949.9	13506.6	12825.4	12199.8	12055.4	13868.8	19159.5	20843.7
47.5°	14046.1	14190.5	14418.4	14479.2	14063.8	13448.4	13620.6	15492.2	20745.0	22712.8
50°	13496.5	13630.7	14104.4	14735.0	15023.7	14833.8	15142.7	17232.2	22368.4	24576.9
52.5°	12412.5	12549.3	13147.0	14144.9	15322.6	15920.3	16669.9	18946.8	23941.2	26342.1
55°	10844.8	10989.2	11756.6	12886.1	14752.7	16368.5	17943.9	20658.9	25382.3	27930.1
57.5°	8712.3	8818.7	9616.5	11196.9	13319.2	15922.8	18883.5	22528.0	26739.8	29490.2
60°	5678.2	5771.9	6698.9	8461.6	10943.6	14433.6	19070.9	24612.3	28543.0	31518.9
62.5°	3776.2	3839.5	4389.1	5683.3	7706.9	11574.2	17974.3	26276.3	31187.1	35049.4
65°	2590.9	2654.2	3203.8	4105.4	4979.2	7656.2	14821.1	26056.0	33583.0	37853.1
67.5°	1848.8	1902.0	2368.0	3219.0	3604.0	4447.3	10047.0	23239.6	33238.6	37959.4
70°	1324.6	1355.0	1739.9	2507.3	2864.4	2672.0	5587.0	17774.2	29102.7	35051.9
72.5°	927.0	937.1	1208.1	1909.6	2307.2	1950.1	2659.3	11850.3	22011.3	27512.2
75°	628.1	640.8	813.0	1400.6	1851.4	1489.2	1408.2	6354.4	12921.6	15228.9
77.5°	385.0	390.0	524.3	957.3	1385.4	1134.6	906.7	2692.2	4999.5	4908.3
80°	217.8	217.8	334.3	595.2	944.7	731.9	635.7	1144.8	1582.9	1390.4
82.5°	121.6	124.1	243.1	369.8	625.6	433.1	349.5	529.3	683.8	605.3
85°	50.7	55.7	149.4	174.8	298.9	215.3	141.8	222.9	253.3	225.4
87.5°	5.1	7.6	45.6	32.9	35.5	43.1	20.3	43.1	35.5	35.5
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°
5827.6	0°	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6	5827.6
5913.7	2.5°	5865.6	5827.6	5731.4	5620.0	5473.1	5402.2	5305.9	5240.1	5184.3	5189.4
6060.6	5°	5979.6	5883.4	5668.1	5399.6	5065.3	4827.2	4574.0	4399.2	4257.4	4227.0
6263.3	7.5°	6136.6	5984.7	5607.3	5123.6	4558.8	4130.8	3748.3	3502.7	3327.9	3272.2
6508.9	10°	6339.2	6118.9	5528.8	4776.6	3963.6	3419.1	3008.8	2816.3	2697.3	2656.8
6797.6	12.5°	6574.8	6273.4	5424.9	4353.6	3350.7	2826.4	2565.6	2469.3	2431.3	2418.7
7152.2	15°	6871.1	6465.9	5267.9	3852.2	2831.5	2464.3	2352.8	2340.2	2345.2	2340.2
7577.7	17.5°	7223.1	6676.1	5012.1	3335.5	2482.0	2279.4	2238.9	2249.0	2261.7	2259.1
8053.8	20°	7608.1	6883.8	4685.4	2877.1	2243.9	2147.7	2124.9	2135.0	2145.2	2140.1
8603.4	22.5°	8046.2	7106.6	4323.2	2520.0	2084.4	2026.1	2000.8	2003.3	2003.3	1993.2
9299.9	25°	8570.5	7352.3	3943.3	2266.7	1962.8	1917.2	1886.8	1876.7	1861.5	1831.1
10145.8	27.5°	9196.1	7613.2	3578.6	2089.4	1866.6	1823.5	1788.1	1762.7	1724.7	1674.1
11161.4	30°	9900.1	7929.7	3269.7	1978.0	1790.6	1747.5	1707.0	1669.0	1613.3	1550.0
12329.0	32.5°	10728.3	8269.1	3044.3	1904.6	1722.2	1676.6	1628.5	1582.9	1522.1	1458.8
13640.9	35°	11716.1	8679.4	2912.6	1853.9	1669.0	1608.2	1555.0	1504.4	1458.8	1403.1
15066.8	37.5°	12787.4	9115.0	2872.0	1828.6	1633.6	1539.9	1479.1	1443.6	1438.5	1405.6
16609.1	40°	13960.0	9631.7	2902.4	1813.4	1595.6	1474.0	1408.2	1400.6	1413.2	1355.0
18257.9	42.5°	15201.0	10244.6	2953.1	1795.7	1542.4	1408.2	1344.8	1344.8	1334.7	1253.7
20000.4	45°	16543.3	10951.2	3003.7	1752.6	1479.1	1342.3	1294.2	1276.5	1233.4	1154.9
21753.0	47.5°	17895.7	11670.5	3041.7	1674.1	1403.1	1286.6	1243.5	1203.0	1139.7	1068.8
23472.6	50°	19179.8	12316.3	3001.2	1557.6	1317.0	1233.4	1187.8	1132.1	1063.7	1015.6
25101.1	52.5°	20327.1	12876.0	2829.0	1420.8	1225.8	1177.7	1137.2	1078.9	1023.2	972.5
26570.1	55°	21325.0	13329.4	2525.1	1291.7	1144.8	1129.6	1089.0	1015.6	939.6	896.6
28026.4	57.5°	22282.3	13673.8	2145.2	1185.3	1071.3	1076.4	1015.6	949.7	878.8	833.2
29989.2	60°	23556.2	14134.7	1760.2	1086.5	992.8	1008.0	942.1	894.0	805.4	747.1
33355.1	62.5°	25592.5	14851.5	1398.0	964.9	901.6	906.7	878.8	820.6	714.2	645.8
35849.7	65°	27208.3	14588.1	1101.7	833.2	797.8	805.4	805.4	742.1	628.1	549.6
35984.0	67.5°	27026.0	12491.1	878.8	704.1	699.0	704.1	721.8	668.6	557.2	493.9
33243.6	70°	24896.0	9935.6	704.1	585.0	607.8	595.2	645.8	610.4	501.5	438.1
25772.3	72.5°	20314.4	7157.3	536.9	483.7	466.0	486.3	582.5	549.6	417.9	347.0
13651.0	75°	11870.6	3819.2	400.2	382.4	336.8	405.2	516.7	468.5	319.1	255.8
4183.9	77.5°	3864.8	1332.2	293.8	281.1	250.7	326.7	440.7	395.1	260.9	202.6
1225.8	80°	1035.9	402.7	200.1	184.9	162.1	243.1	349.5	314.0	187.4	131.7
526.8	82.5°	415.4	169.7	116.5	103.8	88.6	167.2	276.1	253.3	139.3	83.6
164.6	85°	134.2	55.7	43.1	32.9	40.5	103.8	164.6	172.2	98.8	43.1
25.3	87.5°	17.7	7.6	7.6	10.1	7.6	17.7	50.7	48.1	27.9	5.1
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>
5827.6
5138.8
4158.6
3216.5
2626.4
2411.1
2337.6
2254.1
2137.6
1988.1
1826.0
1669.0
1544.9
1461.3
1398.0
1403.1
1357.5
1253.7
1152.4
1066.2
1008.0
967.5
891.5
828.2
739.5
640.8
542.0
483.7
430.6
339.4
248.2
195.0
129.2
83.6
32.9
0.0
0.0

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