

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: P955254

Luminaire Tested: **GALN-SB8B-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

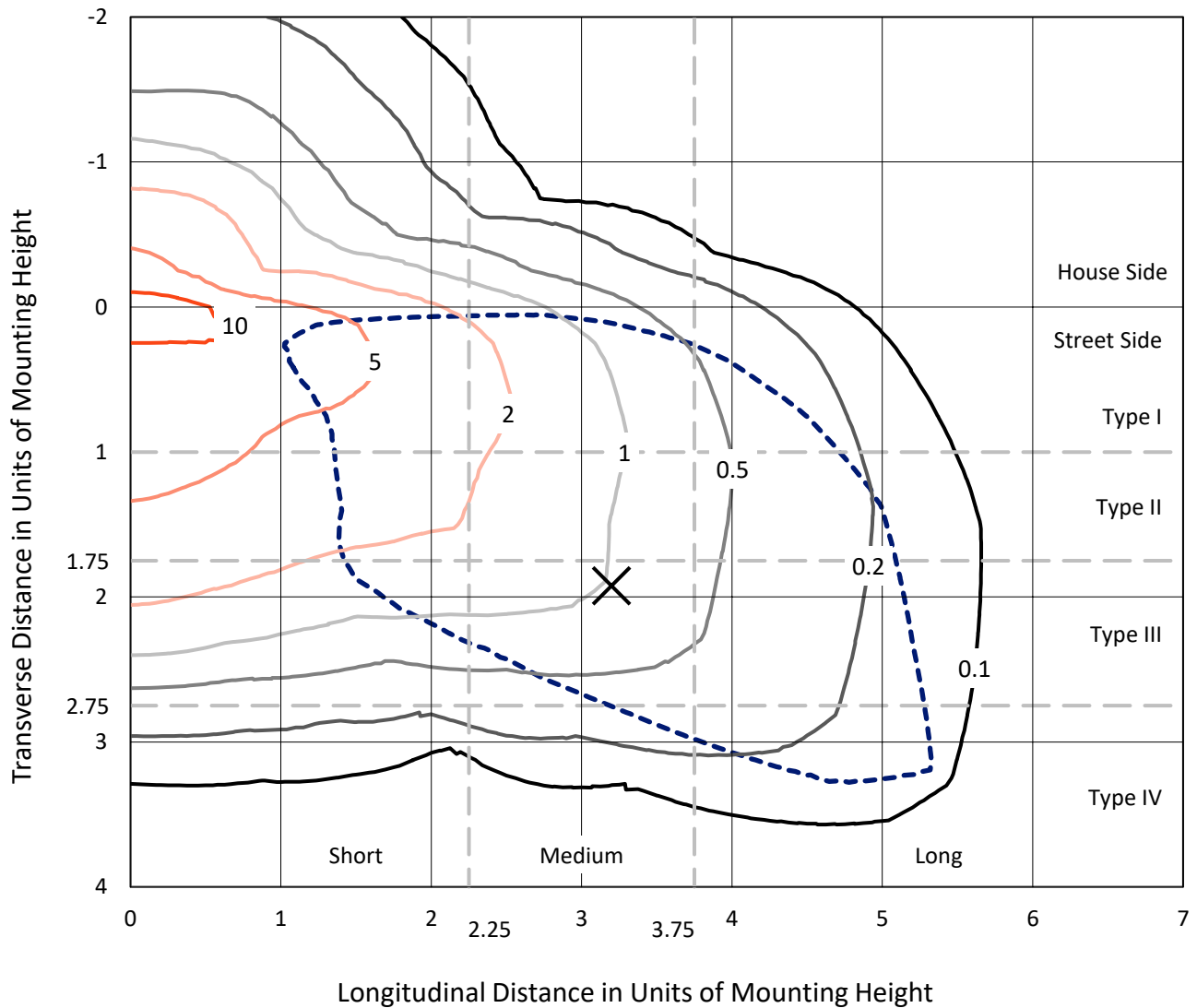
Lumens per Lamp: N/A  
Luminaire Lumens: 44501 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

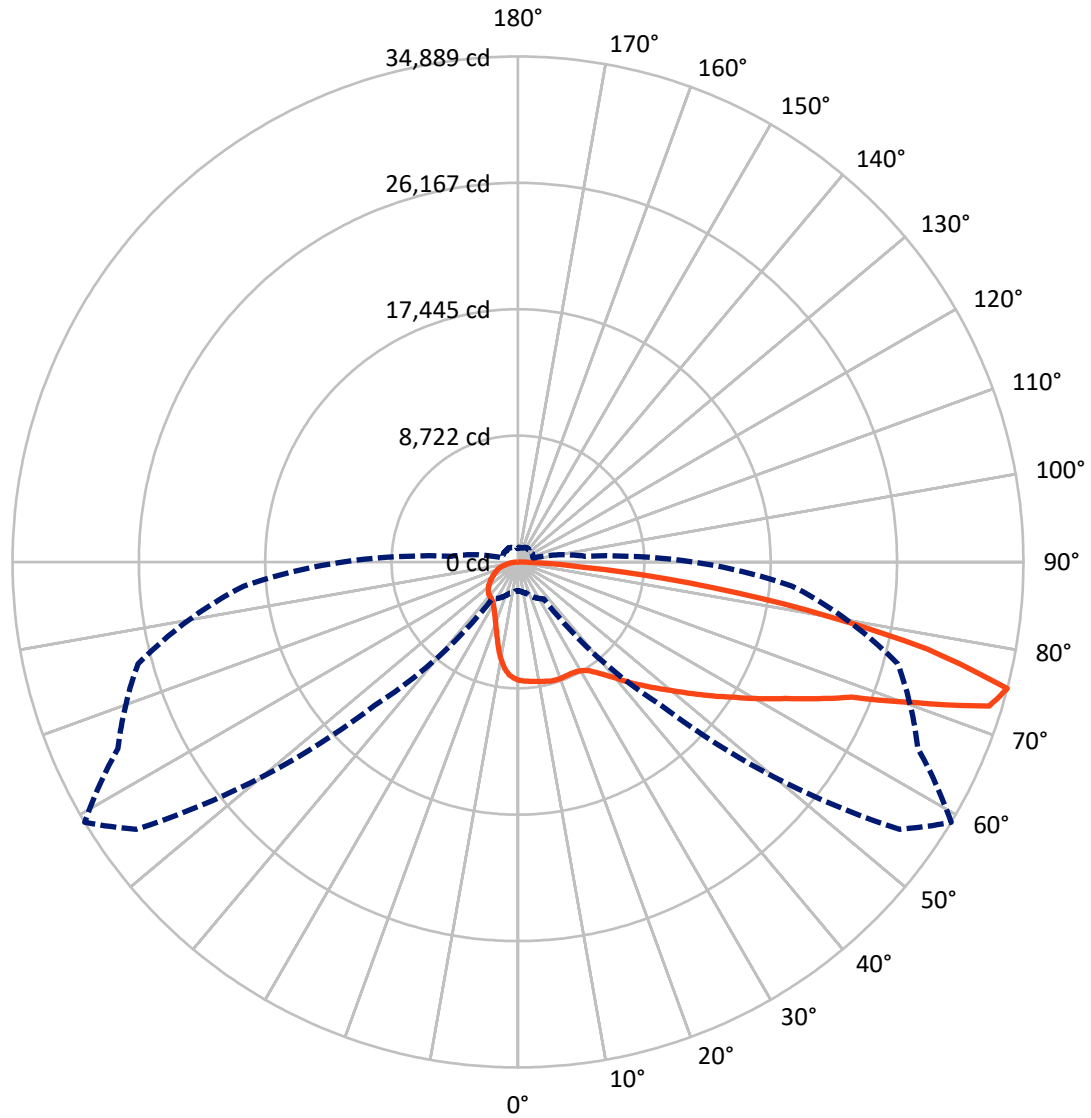
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8346.5	0.0	8346.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	36154.5	0.0	36154.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	44501.0	0.0	44501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.4	1.6
10°-20°	1872.1	4.2
20°-30°	2843.5	6.4
30°-40°	4226.8	9.5
40°-50°	6286.0	14.1
50°-60°	8532.5	19.2
60°-70°	10416.8	23.4
70°-80°	8174.9	18.4
80°-90°	1416.1	3.2
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°	44501.0	100.0
0°-180°	44501.0	100.0

**Coefficient of Utilization**



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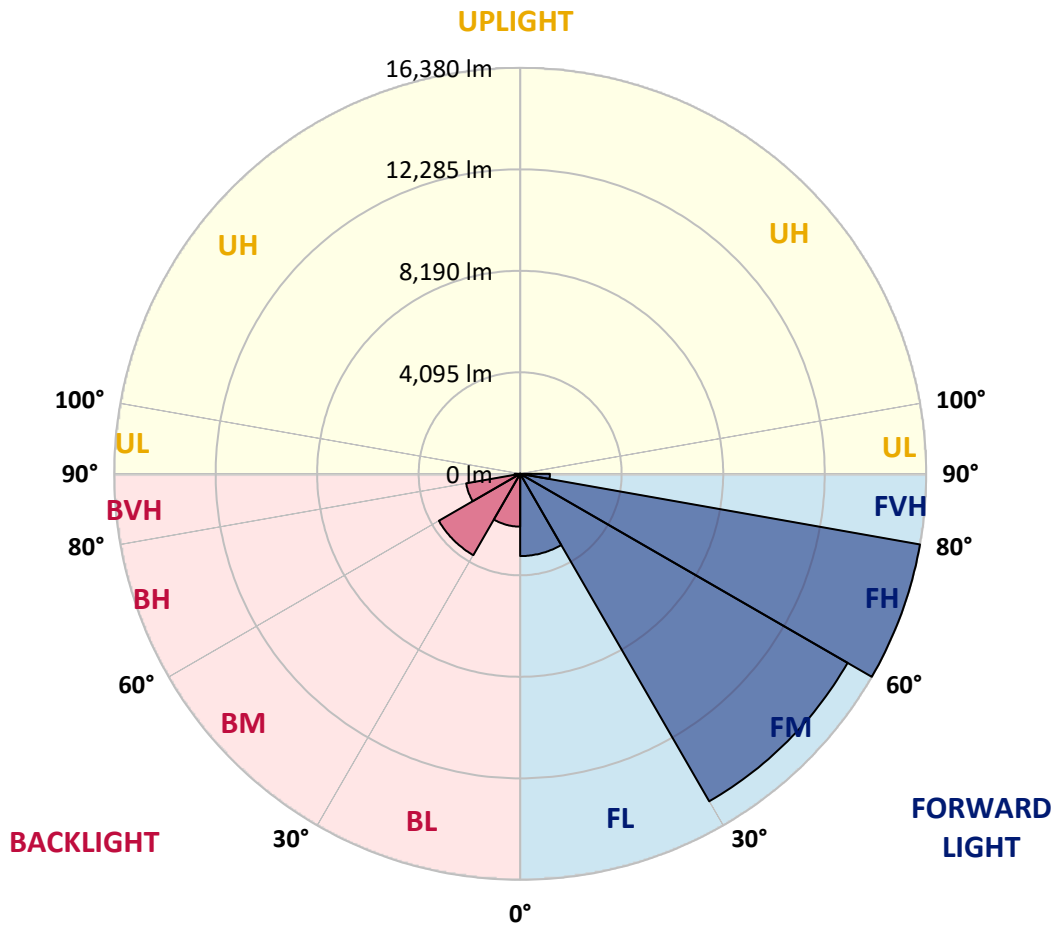
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3318.0	7.5			
FM (30°-60°)	15256.8	34.3			
FH (60°-80°)	16380.4	36.8			G5
FVH (80°-90°)	1199.3	2.7			G5
BL (0°-30°)	2129.9	4.8	B3/2500		
BM (30°-60°)	3788.5	8.5	B3/5000		
BH (60°-80°)	2211.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	216.8	0.5			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1
2.5°	8237.5	8208.8	8237.5	8225.5	8220.7	8211.1	8213.5	8230.3	8220.7	8232.7
5°	8182.4	8165.7	8194.4	8187.2	8218.3	8223.1	8254.2	8273.4	8285.4	8287.8
7.5°	8091.5	8074.7	8115.4	8148.9	8215.9	8235.1	8299.7	8330.8	8347.6	8376.3
10°	7758.7	7751.5	7852.1	7978.9	8136.9	8235.1	8333.2	8385.9	8412.2	8488.8
12.5°	7169.8	7179.4	7311.0	7555.2	7871.2	8187.2	8371.5	8448.1	8488.8	8584.6
15°	6607.2	6604.8	6748.5	7009.4	7452.3	7976.5	8390.7	8522.4	8591.8	8733.0
17.5°	6281.6	6272.1	6372.6	6571.3	6983.1	7653.4	8342.8	8563.1	8711.5	8888.6
20°	6221.8	6202.7	6255.3	6353.5	6645.5	7299.1	8218.3	8563.1	8807.2	9037.1
22.5°	6439.6	6408.5	6387.0	6375.0	6504.3	7007.0	8077.1	8534.3	8948.5	9250.1
25°	6877.7	6829.9	6719.7	6612.0	6573.7	6875.3	7952.6	8527.1	9159.1	9537.4
27.5°	7586.3	7526.5	7303.9	7045.3	6813.1	6942.4	7897.5	8570.2	9391.4	9841.4
30°	8464.9	8400.3	8120.2	7722.8	7306.2	7191.3	7967.0	8697.1	9688.2	10246.0
32.5°	9252.5	9180.7	8941.3	8536.7	7974.2	7622.2	8187.2	8938.9	10155.0	10808.6
35°	9951.5	9867.7	9652.3	9278.8	8792.9	8227.9	8584.6	9367.4	10818.1	11723.0
37.5°	10636.2	10538.0	10303.4	9908.4	9568.5	9034.7	9132.8	9918.0	11699.1	12833.8
40°	11402.2	11261.0	10976.1	10585.9	10255.6	9980.3	9853.4	10593.1	12594.4	14073.9
42.5°	12144.4	12010.3	11670.4	11337.6	10923.5	10844.5	10688.9	11383.1	13573.5	15436.0
45°	12943.9	12783.5	12371.8	11950.5	11689.5	11419.0	11498.0	12173.1	14533.5	16824.5
47.5°	13693.2	13513.7	13027.7	12558.5	12414.9	11902.6	12240.1	13042.1	15531.8	18232.1
50°	14097.8	13920.7	13516.1	13092.4	12979.8	12498.7	13044.5	13997.3	16577.9	19634.9
52.5°	14435.3	14243.8	13714.8	13480.2	13446.7	13147.4	14035.6	15088.9	17624.0	20875.0
55°	14794.4	14581.4	13906.3	13695.6	13848.8	13875.2	15211.0	16326.5	18730.0	22083.9
57.5°	15208.6	14938.1	14090.6	13877.6	14241.4	14727.4	16561.1	17609.7	19816.9	23204.3
60°	15598.8	15325.9	14444.9	14167.2	14665.2	15716.1	18110.0	19163.3	21047.4	24202.5
62.5°	15675.4	15450.4	14727.4	14725.0	15239.7	16870.0	19943.8	20731.4	22122.2	25188.8
65°	14349.2	14207.9	13779.4	14703.5	16063.2	18531.3	21985.8	22737.5	23489.2	26050.7
67.5°	10921.1	10940.2	10909.1	12692.6	15397.7	20918.1	24942.3	24884.8	25176.9	27017.8
70°	4993.7	5106.2	5838.8	8761.8	12335.9	21193.4	29830.7	29086.1	27295.5	28269.8
72.5°	2697.9	2784.1	3083.4	4244.4	7416.4	18842.6	33483.8	34012.8	30113.1	29112.5
75°	1979.8	2027.7	2235.9	2697.9	3114.5	14004.4	32174.3	34889.0	30465.0	27147.1
77.5°	1481.8	1503.4	1673.4	2137.8	1594.4	7382.9	25708.3	28894.6	26079.4	22304.2
80°	1074.9	1098.8	1225.7	1603.9	1118.0	2700.3	17652.8	20281.3	17861.0	14217.5
82.5°	742.1	751.7	806.8	1091.6	780.4	1048.5	10016.2	11893.0	9970.7	4988.9
85°	447.7	459.6	483.6	636.8	442.9	497.9	4323.4	4471.8	2980.4	1192.2
87.5°	184.3	196.3	215.5	268.1	174.8	138.8	713.4	895.3	557.8	349.5
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°
8168.1	0°	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1	8168.1
8192.0	2.5°	8180.0	8163.3	8117.8	8055.5	7998.1	7926.3	7895.2	7868.8	7844.9	7799.4
8256.6	5°	8230.3	8184.8	8062.7	7904.7	7725.2	7528.9	7337.4	7205.7	7093.2	7009.4
8330.8	7.5°	8306.9	8220.7	7998.1	7674.9	7263.2	6841.8	6461.2	6190.7	5987.2	5913.0
8436.2	10°	8385.9	8283.0	7895.2	7325.4	6614.4	5965.7	5460.5	5182.8	5020.1	4967.4
8560.7	12.5°	8479.3	8328.5	7734.8	6839.4	5889.0	5178.1	4737.6	4574.8	4491.0	4462.3
8713.9	15°	8615.7	8366.8	7493.0	6231.4	5197.2	4603.5	4318.6	4206.1	4163.0	4160.6
8871.9	17.5°	8718.7	8373.9	7117.1	5580.2	4665.8	4256.4	4021.8	3978.7	4007.4	4050.5
9027.5	20°	8833.6	8309.3	6624.0	4986.5	4292.3	3952.4	3854.2	3882.9	3952.4	4014.6
9233.4	22.5°	8915.0	8192.0	6027.9	4524.5	3969.1	3777.6	3772.8	3832.7	3871.0	3902.1
9475.1	25°	8986.8	7993.3	5395.9	4136.7	3703.4	3672.3	3724.9	3705.8	3679.5	3705.8
9716.9	27.5°	9039.4	7679.7	4830.9	3796.8	3516.7	3600.5	3569.3	3526.2	3523.9	3538.2
10001.8	30°	9022.7	7260.8	4366.5	3473.6	3385.0	3466.4	3392.2	3385.0	3377.8	3385.0
10430.3	32.5°	9022.7	6784.4	4009.8	3250.9	3301.2	3270.1	3262.9	3246.2	3217.4	3215.0
11012.0	35°	9073.0	6308.0	3703.4	3131.2	3231.8	3157.6	3162.4	3121.7	3061.8	3033.1
11782.9	37.5°	9175.9	5925.0	3399.4	3073.8	3109.7	3107.3	3088.2	3018.7	2913.4	2822.4
12745.2	40°	9424.9	5812.4	3191.1	3047.5	3052.2	3081.0	3030.7	2896.6	2657.3	2508.8
13722.0	42.5°	9815.1	6001.6	3145.6	2982.8	3013.9	3042.7	2944.5	2633.3	2463.3	2374.8
14746.6	45°	10310.6	6331.9	3243.8	2889.5	2923.0	2973.3	2681.2	2532.8	2456.2	2458.6
15761.6	47.5°	10937.8	6679.0	3425.7	2808.1	2791.3	2820.0	2506.4	2415.5	2310.1	2336.5
16735.9	50°	11663.2	7030.9	3598.1	2697.9	2645.3	2551.9	2393.9	2307.7	2173.7	2111.4
17676.7	52.5°	12448.4	7370.9	3667.5	2563.9	2487.3	2379.6	2317.3	2212.0	2049.2	1946.3
18564.9	55°	13192.9	7679.7	3590.9	2403.5	2329.3	2245.5	2235.9	2171.3	1996.5	1852.9
19354.9	57.5°	13896.7	7938.2	3399.4	2240.7	2168.9	2118.6	2183.3	2152.1	1931.9	1747.6
20101.8	60°	14492.8	8115.4	3121.7	2075.5	2025.3	1998.9	2097.1	2087.5	1840.9	1635.0
20772.1	62.5°	14966.8	8184.8	2815.3	1917.5	1905.6	1857.7	1977.4	1977.4	1726.0	1524.9
21361.0	65°	15337.9	8117.8	2504.0	1761.9	1785.9	1714.0	1831.3	1817.0	1603.9	1426.8
22038.4	67.5°	15665.8	7897.5	2159.3	1608.7	1663.8	1572.8	1678.1	1644.6	1469.9	1328.6
22624.9	70°	15811.9	7385.2	1766.7	1455.5	1522.5	1434.0	1524.9	1462.7	1319.1	1223.3
21981.0	72.5°	14638.8	6138.0	1390.9	1295.1	1352.6	1280.7	1359.7	1287.9	1156.3	1113.2
18981.4	75°	12110.8	4605.9	1070.1	1120.4	1163.4	1108.4	1161.1	1108.4	988.7	1019.8
14021.2	77.5°	8795.3	3109.7	818.7	936.0	955.2	926.4	971.9	912.1	804.4	797.2
6987.9	80°	4373.7	1821.8	641.6	739.7	732.5	713.4	766.1	737.3	646.4	684.7
1886.4	82.5°	1266.4	780.4	466.8	519.5	505.1	509.9	548.2	562.6	842.7	835.5
586.5	85°	397.4	306.4	280.1	289.7	275.3	282.5	323.2	641.6	593.7	347.1
181.9	87.5°	102.9	105.3	69.4	74.2	76.6	91.0	102.9	390.2	186.7	122.1
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>
8168.1
7777.9
6940.0
5783.7
4886.0
4469.5
4170.2
4067.3
4036.2
3918.8
3722.5
3562.2
3411.3
3246.2
3061.8
2853.6
2528.0
2374.8
2470.5
2403.5
2128.2
1943.9
1852.9
1738.0
1627.9
1517.7
1417.2
1319.1
1204.1
1077.3
931.2
761.3
677.5
854.6
375.8
129.3
0.0

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