

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: P956787

Luminaire Tested: **GALN-SB9B-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956787  
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-SB9B-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

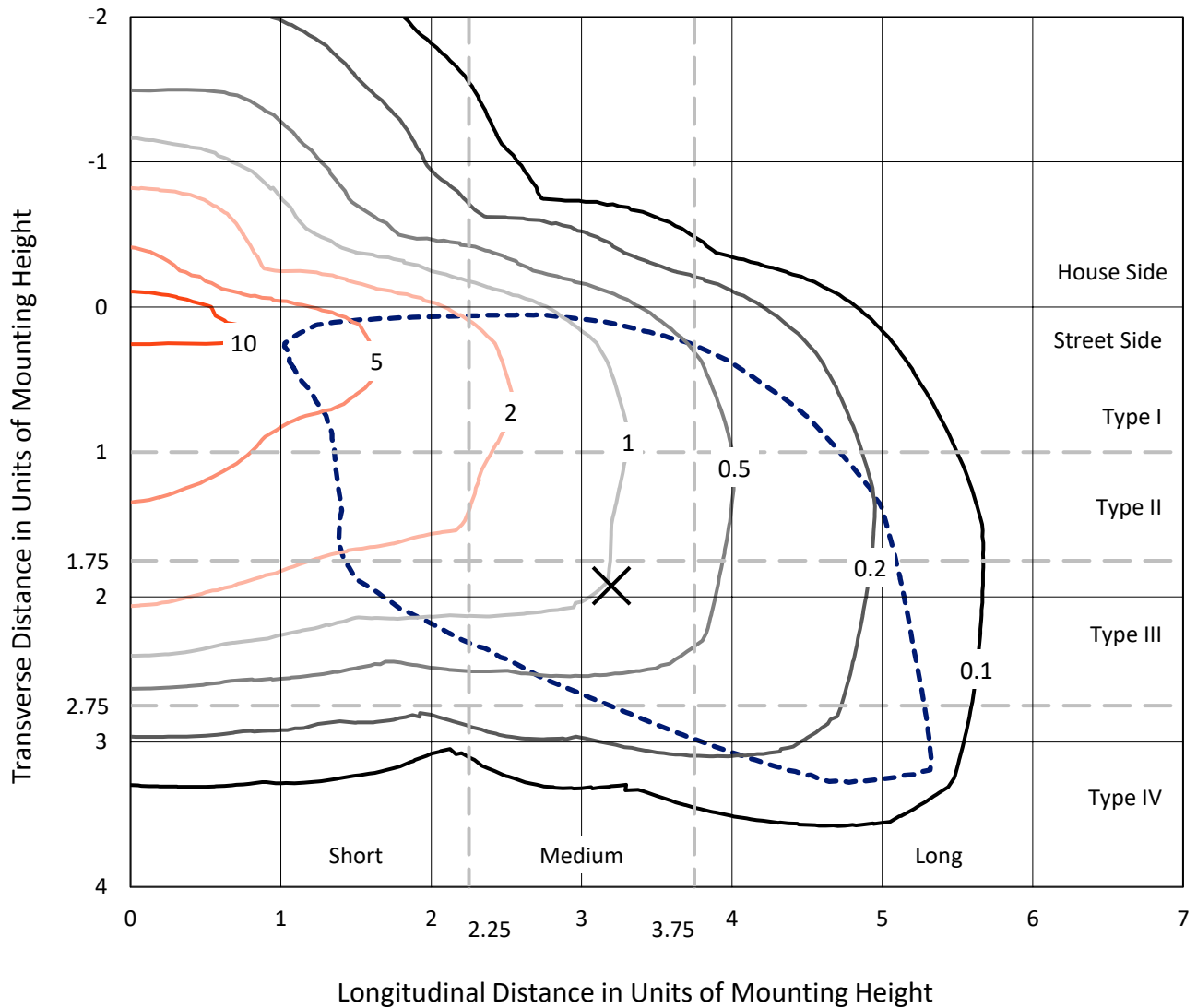
Lumens per Lamp: N/A  
Luminaire Lumens: 45042 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

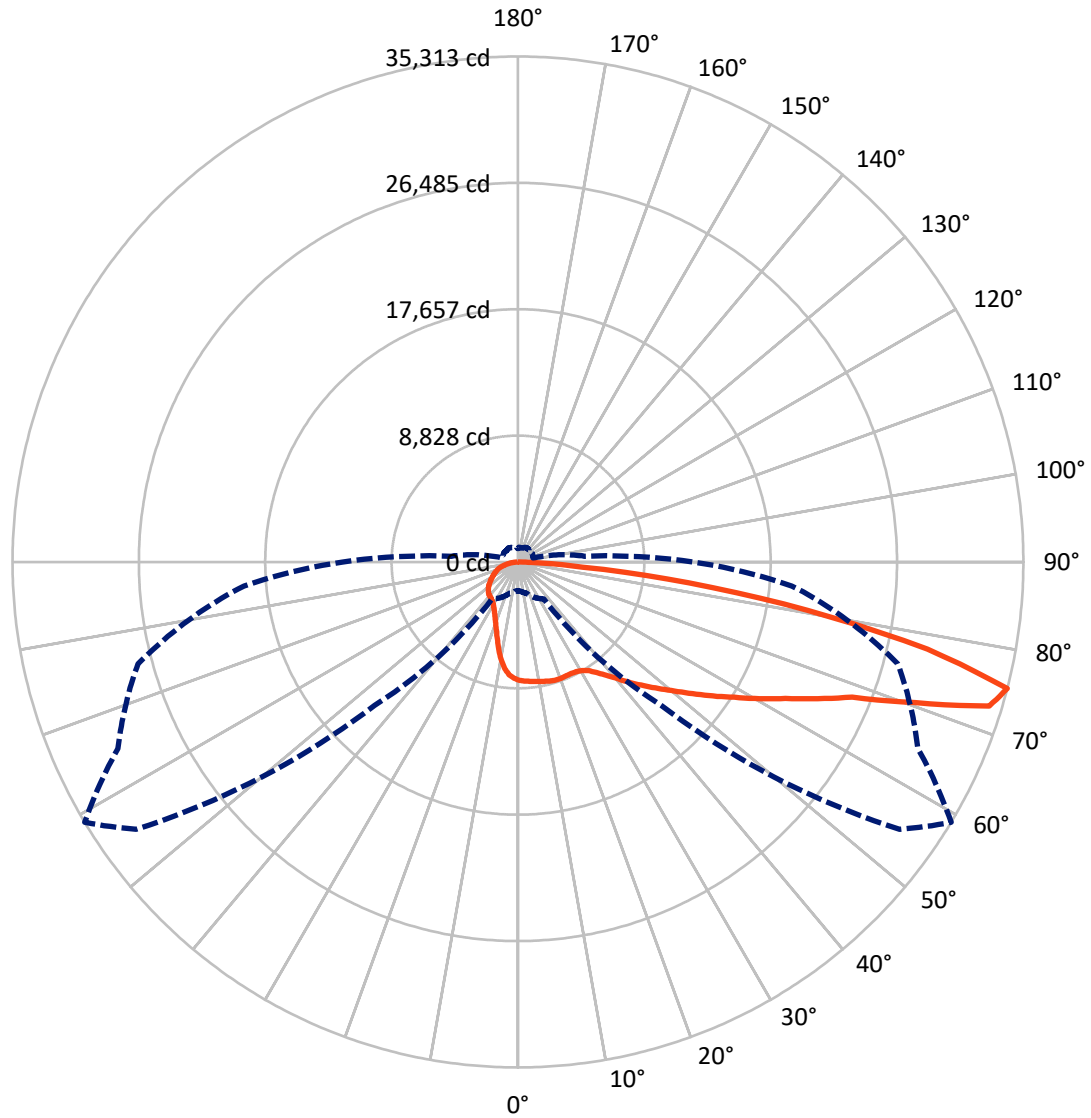
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	8447.9	0.0	8447.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	36594.1	0.0	36594.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	45042.0	0.0	45042.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.3	1.6
10°-20°	1894.8	4.2
20°-30°	2878.1	6.4
30°-40°	4278.2	9.5
40°-50°	6362.4	14.1
50°-60°	8636.2	19.2
60°-70°	10543.4	23.4
70°-80°	8274.3	18.4
80°-90°	1433.3	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°	45042.0	100.0
0°-180°	45042.0	100.0

**Coefficient of Utilization**



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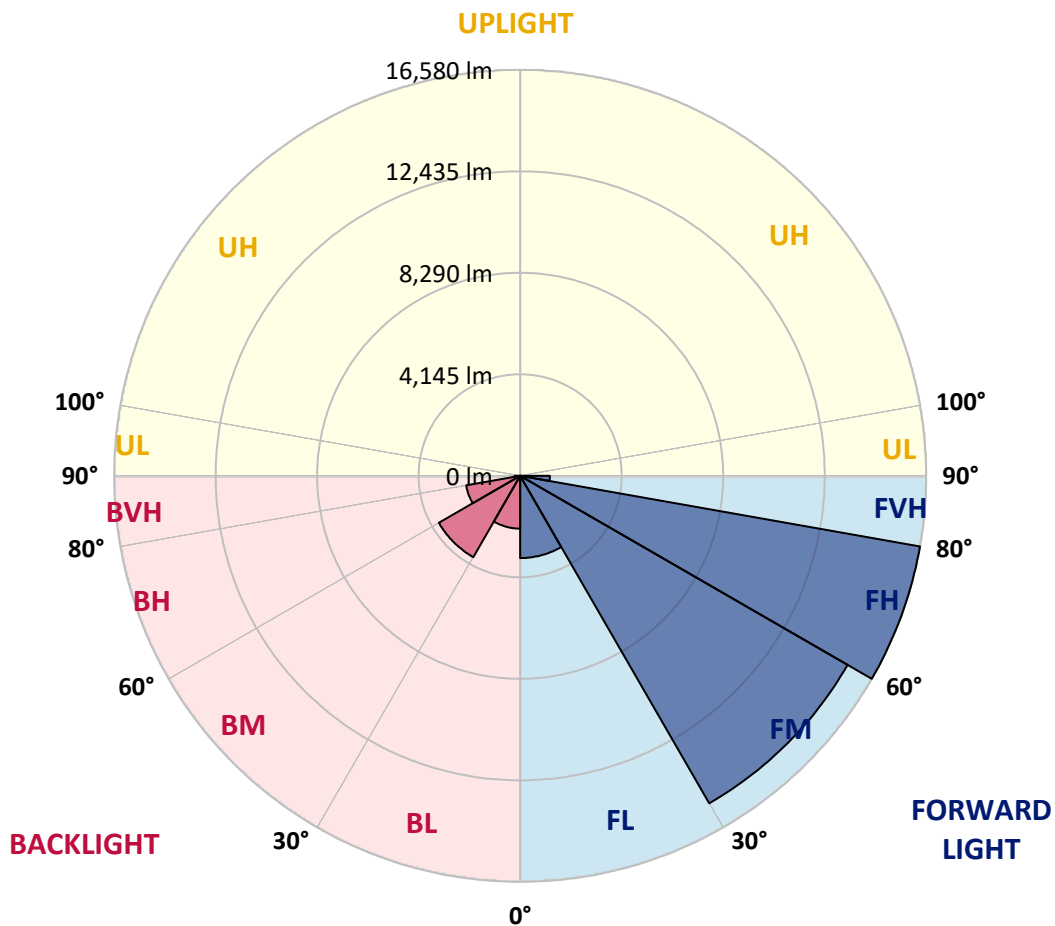
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3358.4	7.5			
FM (30°-60°)	15442.3	34.3			
FH (60°-80°)	16579.5	36.8			G5
FVH (80°-90°)	1213.9	2.7			G5
BL (0°-30°)	2155.8	4.8	B3/2500		
BM (30°-60°)	3834.5	8.5	B3/5000		
BH (60°-80°)	2238.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	219.4	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°	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4
2.5°	8337.6	8308.6	8337.6	8325.5	8320.7	8311.0	8313.4	8330.4	8320.7	8332.8
5°	8281.9	8264.9	8294.0	8286.7	8318.2	8323.1	8354.6	8374.0	8386.1	8388.5
7.5°	8189.8	8172.9	8214.1	8248.0	8315.8	8335.2	8400.6	8432.1	8449.1	8478.2
10°	7853.0	7845.8	7947.5	8075.9	8235.9	8335.2	8434.5	8487.9	8514.5	8592.0
12.5°	7257.0	7266.6	7399.9	7647.1	7966.9	8286.7	8473.3	8550.9	8592.0	8689.0
15°	6687.5	6685.1	6830.5	7094.6	7542.9	8073.5	8492.7	8626.0	8696.2	8839.2
17.5°	6358.0	6348.3	6450.1	6651.2	7068.0	7746.4	8444.2	8667.2	8817.4	8996.7
20°	6297.4	6278.1	6331.4	6430.7	6726.3	7387.8	8318.2	8667.2	8914.3	9146.9
22.5°	6517.9	6486.4	6464.6	6452.5	6583.4	7092.2	8175.3	8638.1	9057.3	9362.6
25°	6961.3	6912.9	6801.4	6692.4	6653.6	6958.9	8049.3	8630.8	9270.5	9653.3
27.5°	7678.6	7618.0	7392.6	7131.0	6895.9	7026.8	7993.6	8674.4	9505.5	9961.1
30°	8567.8	8502.4	8218.9	7816.7	7395.1	7278.8	8063.8	8802.8	9806.0	10370.5
32.5°	9365.0	9292.3	9050.0	8640.5	8071.1	7714.9	8286.7	9047.6	10278.5	10940.0
35°	10072.5	9987.7	9769.6	9391.6	8899.8	8327.9	8689.0	9481.3	10949.6	11865.5
37.5°	10765.5	10666.2	10428.7	10028.9	9684.8	9144.5	9243.8	10038.6	11841.3	12989.8
40°	11540.9	11397.9	11109.6	10714.6	10380.2	10101.6	9973.2	10721.9	12747.5	14245.0
42.5°	12292.0	12156.3	11812.2	11475.4	11056.3	10976.3	10818.8	11521.5	13738.5	15623.7
45°	13101.3	12938.9	12522.2	12095.7	11831.6	11557.8	11637.8	12321.1	14710.2	17029.0
47.5°	13859.7	13678.0	13186.1	12711.2	12565.8	12047.3	12388.9	13200.6	15720.6	18453.8
50°	14269.2	14089.9	13680.4	13251.5	13137.6	12650.6	13203.1	14167.4	16779.4	19873.6
52.5°	14610.8	14417.0	13881.5	13644.0	13610.1	13307.2	14206.2	15272.3	17838.3	21128.8
55°	14974.3	14758.6	14075.3	13862.1	14017.2	14043.8	15395.9	16525.0	18957.7	22352.4
57.5°	15393.5	15119.7	14261.9	14046.3	14414.6	14906.4	16762.5	17823.8	20057.8	23486.4
60°	15788.4	15512.2	14620.5	14339.5	14843.4	15907.2	18330.2	19396.3	21303.2	24496.8
62.5°	15866.0	15638.2	14906.4	14904.0	15425.0	17075.1	20186.2	20983.4	22391.2	25495.1
65°	14523.6	14380.6	13946.9	14882.2	16258.5	18756.6	22253.1	23013.9	23774.7	26367.3
67.5°	11053.8	11073.2	11041.7	12846.9	15584.9	21172.4	25245.5	25187.3	25482.9	27346.3
70°	5054.4	5168.3	5909.8	8868.3	12485.8	21451.0	30193.3	29439.7	27627.3	28613.5
72.5°	2730.7	2818.0	3120.9	4296.0	7506.5	19071.6	33890.8	34426.3	30479.2	29466.4
75°	2003.8	2052.3	2263.1	2730.7	3152.4	14174.7	32565.4	35313.2	30835.4	27477.1
77.5°	1499.9	1521.7	1693.7	2163.8	1613.7	7472.6	26020.9	29245.9	26396.4	22575.3
80°	1087.9	1112.2	1240.6	1623.4	1131.6	2733.2	17867.4	20527.9	18078.2	14390.3
82.5°	751.1	760.8	816.6	1104.9	789.9	1061.3	10137.9	12037.6	10091.9	5049.6
85°	453.1	465.2	489.5	644.5	448.3	504.0	4376.0	4526.2	3016.7	1206.7
87.5°	186.6	198.7	218.1	271.4	176.9	140.5	722.1	906.2	564.6	353.8
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°
8267.4	0°	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4	8267.4
8291.6	2.5°	8279.5	8262.5	8216.5	8153.5	8095.3	8022.6	7991.1	7964.5	7940.3	7894.2
8357.0	5°	8330.4	8284.3	8160.7	8000.8	7819.1	7620.4	7426.6	7293.3	7179.4	7094.6
8432.1	7.5°	8407.9	8320.7	8095.3	7768.2	7351.5	6925.0	6539.7	6265.9	6060.0	5984.9
8538.7	10°	8487.9	8383.7	7991.1	7414.5	6694.8	6038.2	5526.9	5245.8	5081.1	5027.8
8664.7	12.5°	8582.4	8429.7	7828.8	6922.6	5960.6	5241.0	4795.2	4630.4	4545.6	4516.5
8819.8	15°	8720.5	8468.5	7584.1	6307.1	5260.4	4659.5	4371.1	4257.3	4213.6	4211.2
8979.7	17.5°	8824.7	8475.7	7203.7	5648.1	4722.5	4308.1	4070.7	4027.1	4056.1	4099.8
9137.2	20°	8941.0	8410.3	6704.5	5047.2	4344.5	4000.4	3901.1	3930.1	4000.4	4063.4
9345.6	22.5°	9023.3	8291.6	6101.2	4579.5	4017.4	3823.5	3818.7	3879.3	3918.0	3949.5
9590.3	25°	9096.0	8090.5	5461.5	4187.0	3748.4	3716.9	3770.2	3750.8	3724.2	3750.8
9835.1	27.5°	9149.3	7773.1	4889.7	3842.9	3559.4	3644.2	3612.7	3569.1	3566.7	3581.2
10123.4	30°	9132.4	7349.0	4419.6	3515.8	3426.2	3508.5	3433.4	3426.2	3418.9	3426.2
10557.1	32.5°	9132.4	6866.9	4058.6	3290.5	3341.4	3309.9	3302.6	3285.6	3256.5	3254.1
11145.9	35°	9183.3	6384.7	3748.4	3169.3	3271.1	3196.0	3200.8	3159.6	3099.0	3070.0
11926.1	37.5°	9287.5	5997.0	3440.7	3111.2	3147.5	3145.1	3125.7	3055.4	2948.8	2856.7
12900.2	40°	9539.4	5883.1	3229.9	3084.5	3089.4	3118.4	3067.5	2931.9	2689.6	2539.3
13888.8	42.5°	9934.4	6074.5	3183.9	3019.1	3050.6	3079.7	2980.3	2665.3	2493.3	2403.6
14925.8	45°	10436.0	6408.9	3283.2	2924.6	2958.5	3009.4	2713.8	2563.6	2486.0	2488.4
15953.2	47.5°	11070.8	6760.2	3467.3	2842.2	2825.2	2854.3	2536.9	2444.8	2338.2	2364.9
16939.4	50°	11805.0	7116.4	3641.8	2730.7	2677.4	2582.9	2423.0	2335.8	2200.1	2137.1
17891.6	52.5°	12599.7	7460.5	3712.1	2595.1	2517.5	2408.5	2345.5	2238.9	2074.1	1969.9
18790.6	55°	13353.3	7773.1	3634.5	2432.7	2357.6	2272.8	2263.1	2197.7	2020.8	1875.4
19590.2	57.5°	14065.7	8034.7	3440.7	2268.0	2195.3	2144.4	2209.8	2178.3	1955.4	1768.8
20346.1	60°	14669.0	8214.1	3159.6	2100.8	2049.9	2023.2	2122.6	2112.9	1863.3	1654.9
21024.6	62.5°	15148.7	8284.3	2849.5	1940.8	1928.7	1880.3	2001.4	2001.4	1747.0	1543.5
21620.6	65°	15524.3	8216.5	2534.5	1783.3	1807.6	1734.9	1853.6	1839.1	1623.4	1444.1
22306.4	67.5°	15856.3	7993.6	2185.6	1628.3	1684.0	1591.9	1698.5	1664.6	1487.7	1344.8
22900.0	70°	16004.1	7475.0	1788.2	1473.2	1541.0	1451.4	1543.5	1480.5	1335.1	1238.2
22248.2	72.5°	14816.8	6212.6	1407.8	1310.9	1369.0	1296.3	1376.3	1303.6	1170.3	1126.7
19212.2	75°	12258.1	4661.9	1083.1	1134.0	1177.6	1121.9	1175.2	1121.9	1000.7	1032.2
14191.7	77.5°	8902.2	3147.5	828.7	947.4	966.8	937.7	983.7	923.2	814.1	806.9
7072.8	80°	4426.9	1843.9	649.4	748.7	741.4	722.1	775.4	746.3	654.2	693.0
1909.3	82.5°	1281.8	789.9	472.5	525.8	511.3	516.1	554.9	569.4	852.9	845.6
593.6	85°	402.2	310.1	283.5	293.2	278.6	285.9	327.1	649.4	600.9	351.3
184.1	87.5°	104.2	106.6	70.3	75.1	77.5	92.1	104.2	395.0	189.0	123.6
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>
8267.4
7872.4
7024.3
5854.0
4945.4
4523.8
4220.9
4116.7
4085.2
3966.5
3767.8
3605.5
3452.8
3285.6
3099.0
2888.2
2558.7
2403.6
2500.6
2432.7
2154.1
1967.5
1875.4
1759.1
1647.7
1536.2
1434.4
1335.1
1218.8
1090.4
942.6
770.5
685.7
865.0
380.4
130.8
0.0

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