

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: P955695

Luminaire Tested: **GALN-SB8C-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955695  
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-SB8C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

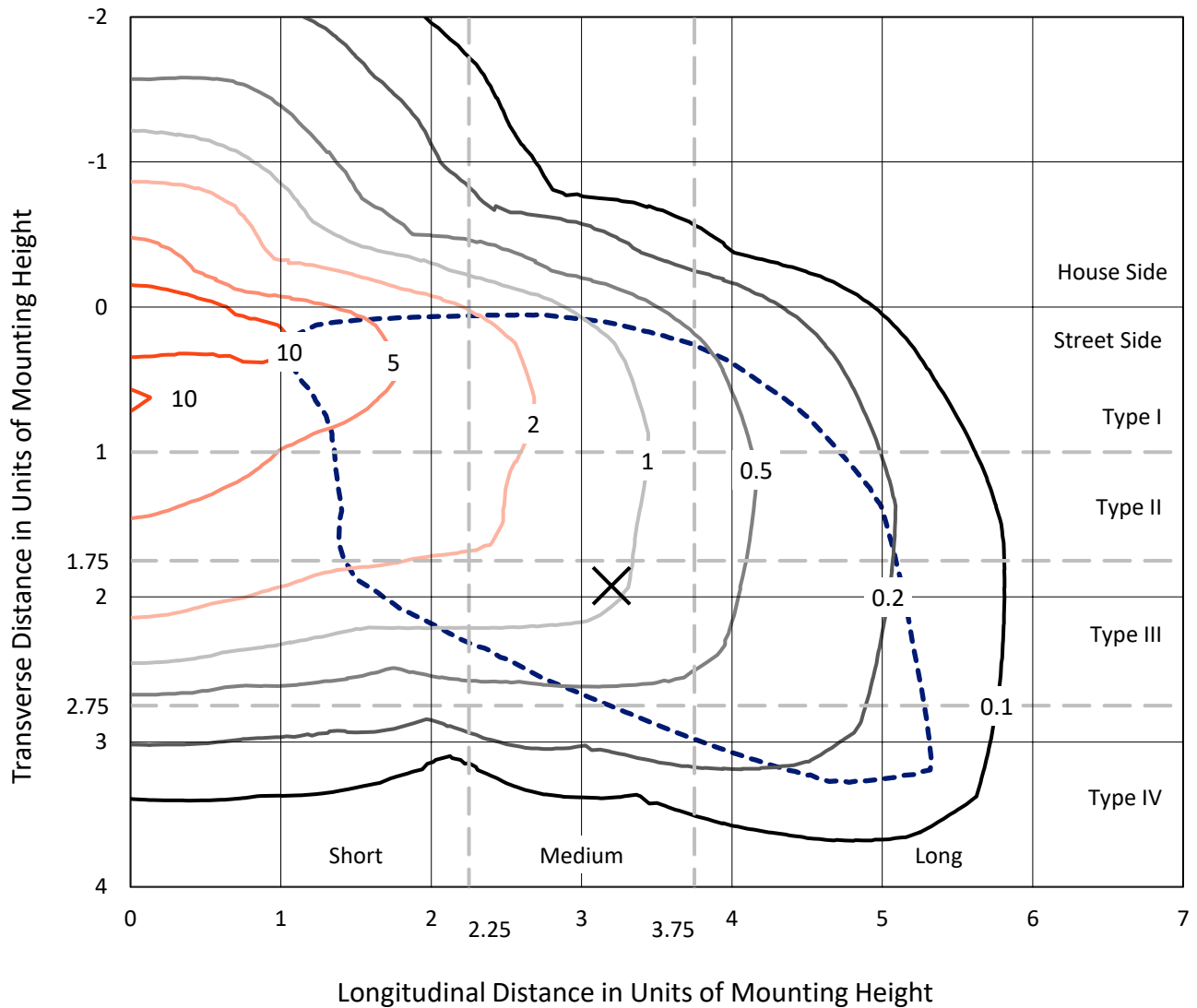
Lumens per Lamp: N/A  
Luminaire Lumens: 51466 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

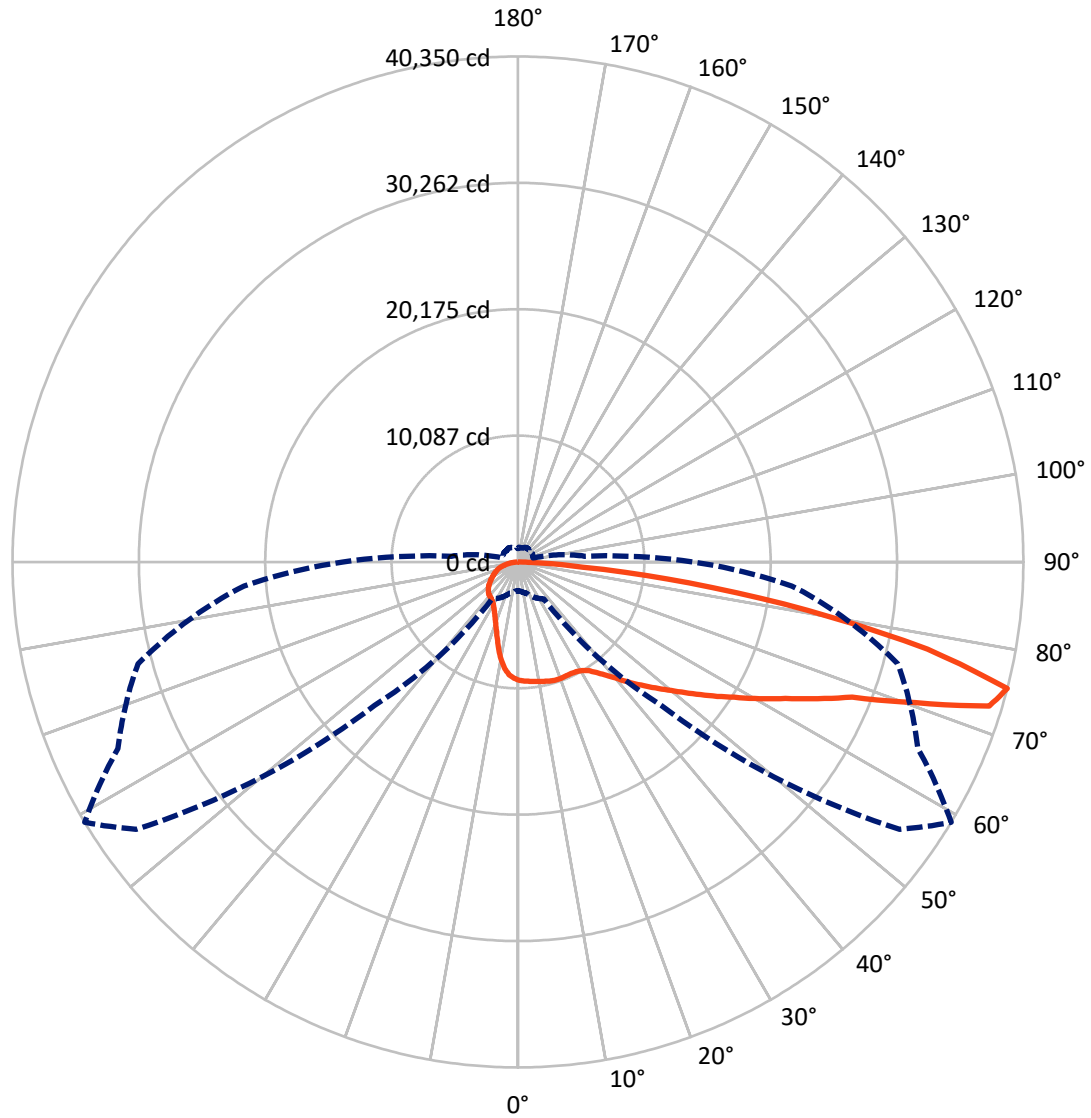
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	9652.8	0.0	9652.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	41813.2	0.0	41813.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	51466.0	0.0	51466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.0	1.6
10°-20°	2165.1	4.2
20°-30°	3288.6	6.4
30°-40°	4888.3	9.5
40°-50°	7269.8	14.1
50°-60°	9867.9	19.2
60°-70°	12047.1	23.4
70°-80°	9454.4	18.4
80°-90°	1637.7	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°	51466.0	100.0
0°-180°	51466.0	100.0

**Coefficient of Utilization**



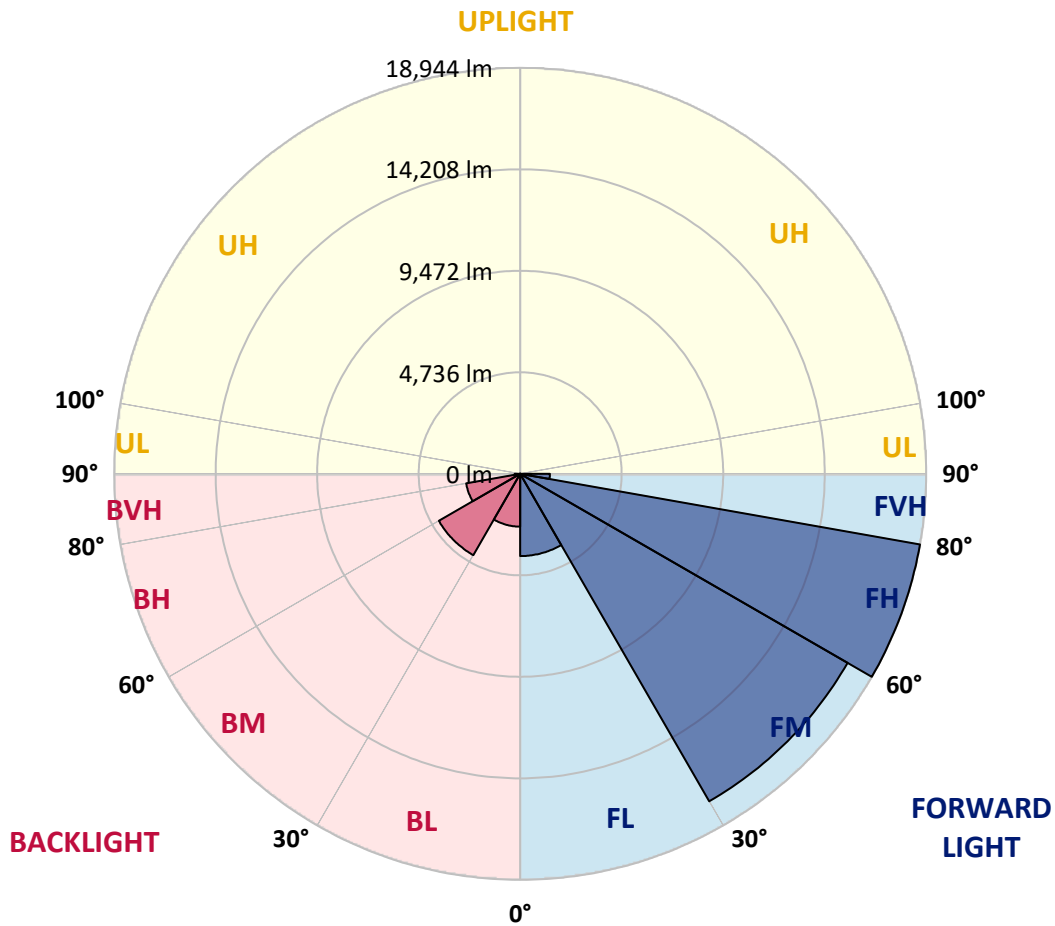
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3837.3	7.5			
FM (30°-60°)	17644.7	34.3			
FH (60°-80°)	18944.1	36.8			G5
FVH (80°-90°)	1387.0	2.7			G5
BL (0°-30°)	2463.3	4.8	B3/2500		
BM (30°-60°)	4381.4	8.5	B3/5000		
BH (60°-80°)	2557.4	5.0	B4/5000		G4/5000
BVH (80°-90°)	250.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5
2.5°	9526.8	9493.5	9526.8	9512.9	9507.4	9496.3	9499.1	9518.5	9507.4	9521.2
5°	9463.1	9443.7	9476.9	9468.6	9504.6	9510.1	9546.1	9568.3	9582.1	9584.9
7.5°	9357.9	9338.5	9385.6	9424.3	9501.8	9524.0	9598.7	9634.7	9654.1	9687.3
10°	8973.0	8964.7	9081.0	9227.8	9410.5	9524.0	9637.5	9698.4	9728.9	9817.5
12.5°	8292.0	8303.0	8455.3	8737.7	9103.2	9468.6	9681.8	9770.4	9817.5	9928.2
15°	7641.3	7638.6	7804.7	8106.5	8618.7	9225.0	9703.9	9856.2	9936.5	10099.9
17.5°	7264.8	7253.7	7370.0	7599.8	8076.0	8851.2	9648.6	9903.3	10074.9	10279.8
20°	7195.6	7173.4	7234.4	7347.9	7685.6	8441.5	9504.6	9903.3	10185.7	10451.5
22.5°	7447.5	7411.5	7386.6	7372.8	7522.3	8103.7	9341.3	9870.1	10349.0	10697.9
25°	7954.2	7898.8	7771.5	7646.9	7602.6	7951.4	9197.3	9861.8	10592.7	11030.1
27.5°	8773.7	8704.5	8447.0	8148.0	7879.4	8028.9	9133.6	9911.6	10861.2	11381.7
30°	9789.8	9715.0	9391.1	8931.5	8449.8	8316.9	9213.9	10058.3	11204.5	11849.6
32.5°	10700.6	10617.6	10340.7	9872.8	9222.2	8815.2	9468.6	10338.0	11744.4	12500.2
35°	11509.1	11412.2	11163.0	10731.1	10169.1	9515.7	9928.2	10833.5	12511.3	13557.8
37.5°	12300.9	12187.4	11916.1	11459.2	11066.1	10448.7	10562.2	11470.3	13530.2	14842.5
40°	13186.9	13023.5	12694.0	12242.8	11860.7	11542.3	11395.6	12251.1	14565.6	16276.6
42.5°	14045.1	13890.1	13496.9	13112.1	12633.1	12541.8	12361.8	13164.7	15698.0	17851.9
45°	14969.8	14784.3	14308.1	13820.9	13519.1	13206.2	13297.6	14078.3	16808.2	19457.7
47.5°	15836.4	15628.8	15066.7	14524.1	14358.0	13765.5	14155.9	15083.3	17962.7	21085.7
50°	16304.3	16099.4	15631.5	15141.5	15011.4	14454.9	15086.1	16188.0	19172.6	22708.1
52.5°	16694.7	16473.2	15861.3	15590.0	15551.2	15205.2	16232.3	17450.5	20382.4	24142.2
55°	17110.0	16863.6	16082.8	15839.2	16016.4	16046.8	17591.7	18881.9	21661.5	25540.4
57.5°	17588.9	17276.1	16296.0	16049.6	16470.4	17032.4	19153.2	20365.8	22918.5	26836.1
60°	18040.2	17724.6	16705.7	16384.6	16960.5	18175.9	20944.5	22162.7	24341.5	27990.6
62.5°	18128.8	17868.6	17032.4	17029.7	17624.9	19510.3	23065.2	23976.1	25584.6	29131.2
65°	16595.0	16431.7	15936.1	17004.8	18577.3	21431.7	25426.8	26296.2	27165.5	30127.9
67.5°	12630.4	12652.5	12616.5	14679.1	17807.6	24192.0	28846.1	28779.6	29117.4	31246.4
70°	5775.3	5905.4	6752.6	10133.1	14266.6	24510.4	34499.5	33638.5	31567.6	32694.4
72.5°	3120.2	3219.9	3566.0	4908.7	8577.1	21791.7	38724.4	39336.3	34826.2	33669.0
75°	2289.6	2345.0	2585.9	3120.2	3602.0	16196.3	37210.0	40349.6	35233.2	31395.9
77.5°	1713.8	1738.7	1935.3	2472.4	1843.9	8538.4	29732.0	33417.0	30161.1	25795.1
80°	1243.1	1270.8	1417.5	1855.0	1292.9	3123.0	20415.7	23455.6	20656.5	16442.7
82.5°	858.3	869.3	933.0	1262.5	902.6	1212.6	11583.8	13754.4	11531.2	5769.8
85°	517.7	531.6	559.3	736.4	512.2	575.9	5000.1	5171.7	3446.9	1378.8
87.5°	213.2	227.0	249.2	310.1	202.1	160.6	825.0	1035.5	645.1	404.2
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°
9446.5	0°	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5	9446.5
9474.2	2.5°	9460.3	9440.9	9388.3	9316.3	9249.9	9166.8	9130.8	9100.4	9072.7	9020.1
9548.9	5°	9518.5	9465.8	9324.7	9141.9	8934.3	8707.3	8485.8	8333.5	8203.4	8106.5
9634.7	7.5°	9607.0	9507.4	9249.9	8876.1	8399.9	7912.7	7472.5	7159.6	6924.3	6838.4
9756.6	10°	9698.4	9579.4	9130.8	8471.9	7649.6	6899.4	6315.2	5994.0	5805.8	5744.8
9900.5	12.5°	9806.4	9632.0	8945.4	7909.9	6810.8	5988.5	5479.1	5290.8	5193.9	5160.7
10077.7	15°	9964.2	9676.3	8665.7	7206.7	6010.6	5324.0	4994.6	4864.4	4814.6	4811.8
10260.4	17.5°	10083.2	9684.6	8231.1	6453.6	5396.0	4922.6	4651.3	4601.4	4634.6	4684.5
10440.4	20°	10216.1	9609.8	7660.7	5767.0	4964.1	4571.0	4457.4	4490.7	4571.0	4642.9
10678.5	22.5°	10310.3	9474.2	6971.3	5232.7	4590.3	4368.9	4363.3	4432.5	4476.8	4512.8
10958.1	25°	10393.3	9244.4	6240.4	4784.1	4283.0	4247.0	4307.9	4285.8	4255.3	4285.8
11237.8	27.5°	10454.2	8881.7	5587.0	4391.0	4067.1	4164.0	4128.0	4078.2	4075.4	4092.0
11567.2	30°	10434.9	8397.2	5049.9	4017.2	3914.8	4008.9	3923.1	3914.8	3906.5	3914.8
12062.8	32.5°	10434.9	7846.2	4637.4	3759.8	3817.9	3781.9	3773.6	3754.2	3721.0	3718.2
12735.6	35°	10493.0	7295.3	4283.0	3621.3	3737.6	3651.8	3657.3	3610.3	3541.0	3507.8
13627.1	37.5°	10612.1	6852.3	3931.4	3554.9	3596.4	3593.6	3571.5	3491.2	3369.4	3264.2
14740.0	40°	10900.0	6722.2	3690.5	3524.4	3530.0	3563.2	3505.0	3350.0	3073.1	2901.5
15869.6	42.5°	11351.3	6940.9	3637.9	3449.7	3485.7	3518.9	3405.4	3045.5	2848.9	2746.5
17054.6	45°	11924.4	7323.0	3751.5	3341.7	3380.5	3438.6	3100.8	2929.2	2840.6	2843.4
18228.5	47.5°	12649.7	7724.4	3961.9	3247.6	3228.2	3261.4	2898.7	2793.5	2671.7	2702.2
19355.3	50°	13488.6	8131.4	4161.2	3120.2	3059.3	2951.3	2768.6	2668.9	2513.9	2441.9
20443.4	52.5°	14396.7	8524.5	4241.5	2965.2	2876.6	2752.0	2680.0	2558.2	2369.9	2250.9
21470.5	55°	15257.8	8881.7	4152.9	2779.7	2693.8	2596.9	2585.9	2511.1	2309.0	2142.9
22384.1	57.5°	16071.7	9180.7	3931.4	2591.4	2508.4	2450.2	2525.0	2489.0	2234.3	2021.1
23247.9	60°	16761.1	9385.6	3610.3	2400.4	2342.2	2311.8	2425.3	2414.2	2129.1	1891.0
24023.2	62.5°	17309.3	9465.8	3255.9	2217.7	2203.8	2148.4	2286.9	2286.9	1996.2	1763.6
24704.2	65°	17738.4	9388.3	2896.0	2037.7	2065.4	1982.3	2118.0	2101.4	1855.0	1650.1
25487.7	67.5°	18117.7	9133.6	2497.3	1860.5	1924.2	1819.0	1940.8	1902.0	1699.9	1536.6
26166.1	70°	18286.6	8541.1	2043.2	1683.3	1760.8	1658.4	1763.6	1691.6	1525.5	1414.8
25421.3	72.5°	16930.0	7098.7	1608.6	1497.8	1564.3	1481.2	1572.6	1489.5	1337.2	1287.4
21952.2	75°	14006.4	5326.8	1237.6	1295.7	1345.5	1281.9	1342.8	1281.9	1143.4	1179.4
16215.7	77.5°	10171.8	3596.4	946.9	1082.5	1104.7	1071.4	1124.1	1054.8	930.3	921.9
8081.5	80°	5058.2	2106.9	742.0	855.5	847.2	825.0	886.0	852.7	747.5	791.8
2181.7	82.5°	1464.6	902.6	539.9	600.8	584.2	589.7	634.0	650.6	974.5	966.2
678.3	85°	459.6	354.4	323.9	335.0	318.4	326.7	373.8	742.0	686.6	401.4
210.4	87.5°	119.0	121.8	80.3	85.8	88.6	105.2	119.0	451.3	216.0	141.2
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>
9446.5
8995.2
8026.2
6688.9
5650.7
5169.0
4822.9
4703.9
4667.9
4532.2
4305.2
4119.7
3945.3
3754.2
3541.0
3300.2
2923.6
2746.5
2857.2
2779.7
2461.3
2248.1
2142.9
2010.0
1882.6
1755.3
1639.0
1525.5
1392.6
1245.9
1077.0
880.4
783.5
988.4
434.7
149.5
0.0

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