

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: P943714

Luminaire Tested: **GALN-SB8B-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943714  
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-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

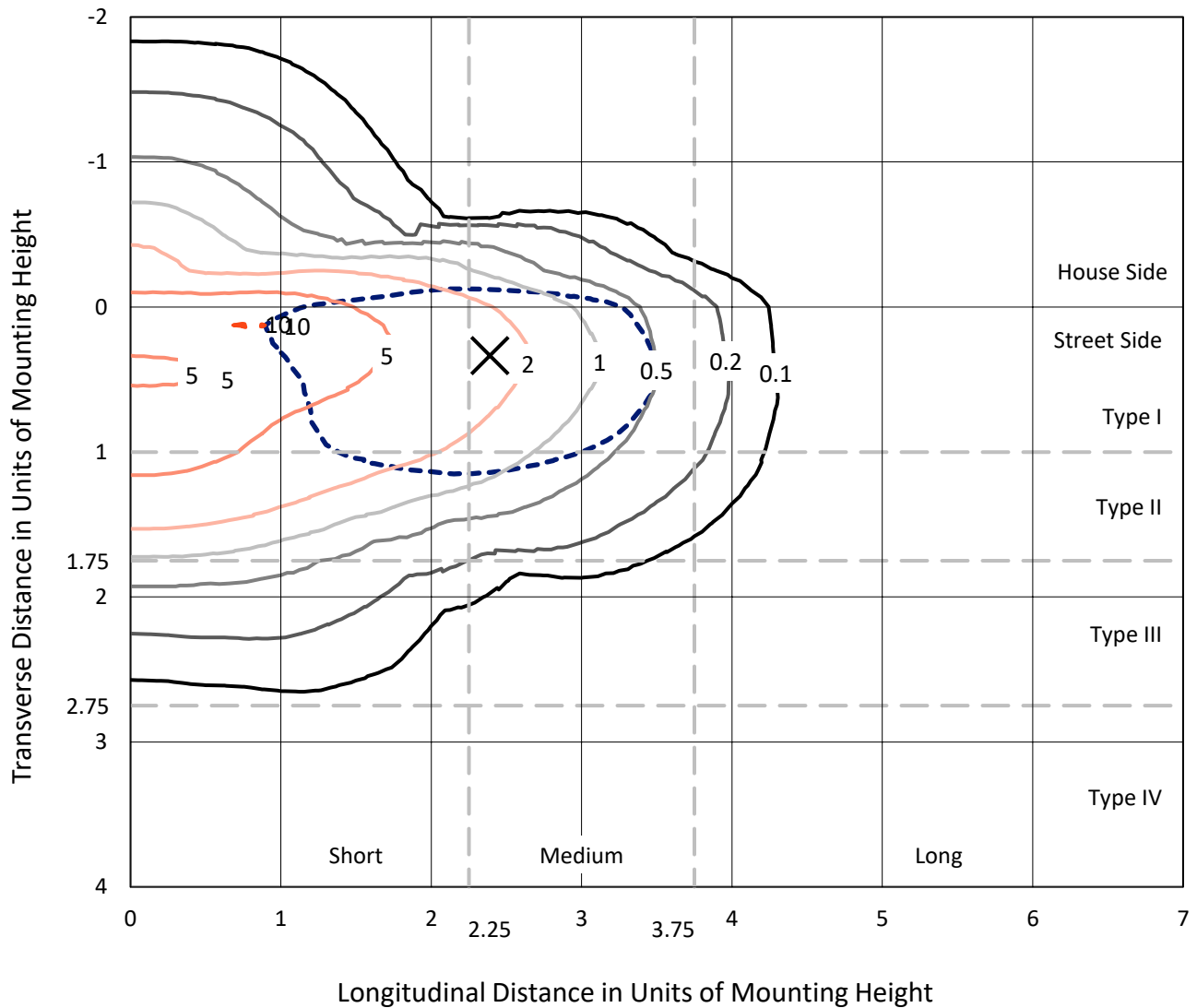
Lumens per Lamp: N/A  
Luminaire Lumens: 28913 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

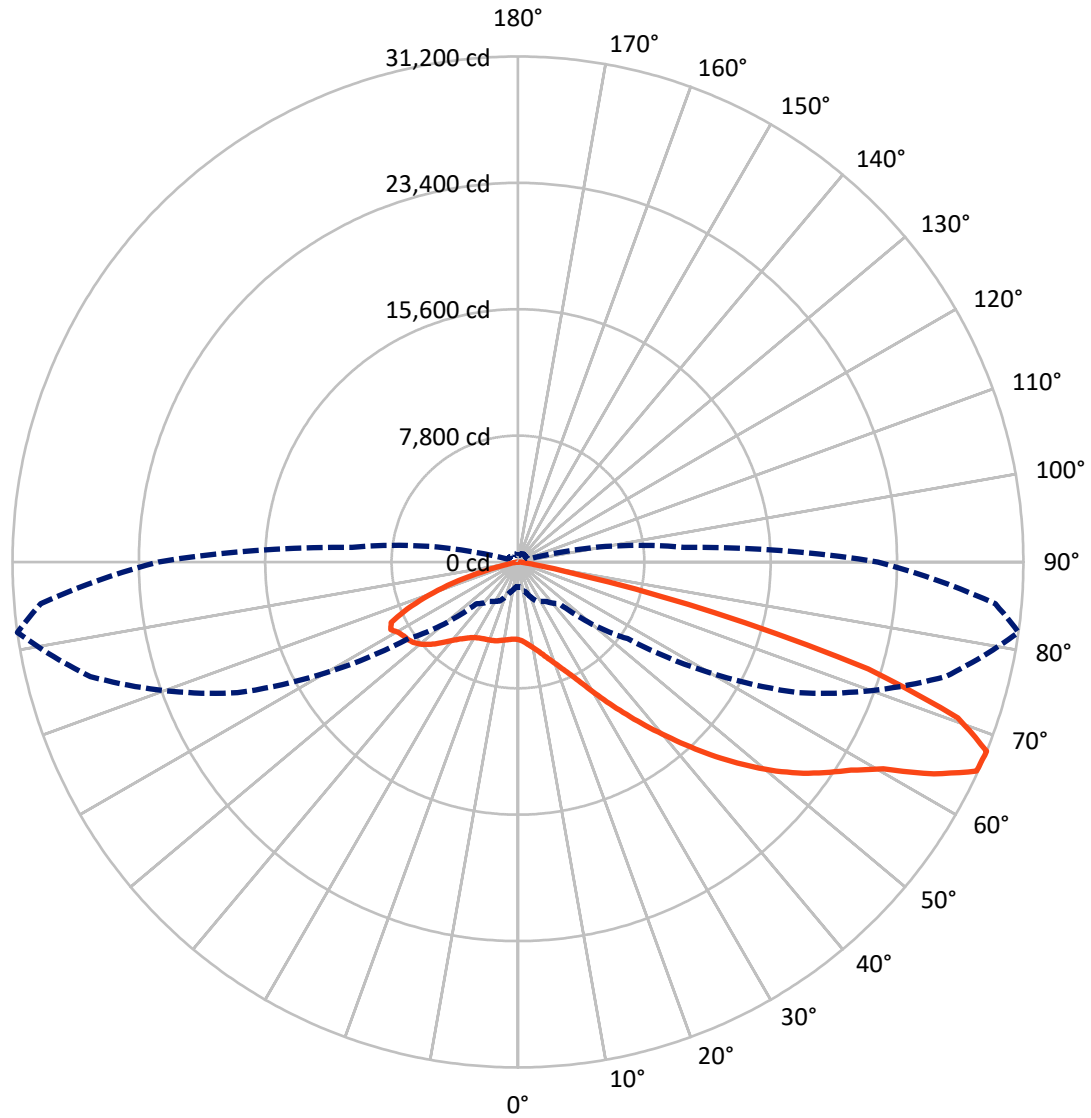
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5237.3	0.0	5237.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	23675.7	0.0	23675.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	28913.0	0.0	28913.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.7	1.5
10°-20°	1108.9	3.8
20°-30°	1776.2	6.1
30°-40°	3140.8	10.9
40°-50°	5503.0	19.0
50°-60°	7339.5	25.4
60°-70°	6832.7	23.6
70°-80°	2622.4	9.1
80°-90°	162.9	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°	28913.0	100.0
0°-180°	28913.0	100.0

**Coefficient of Utilization**



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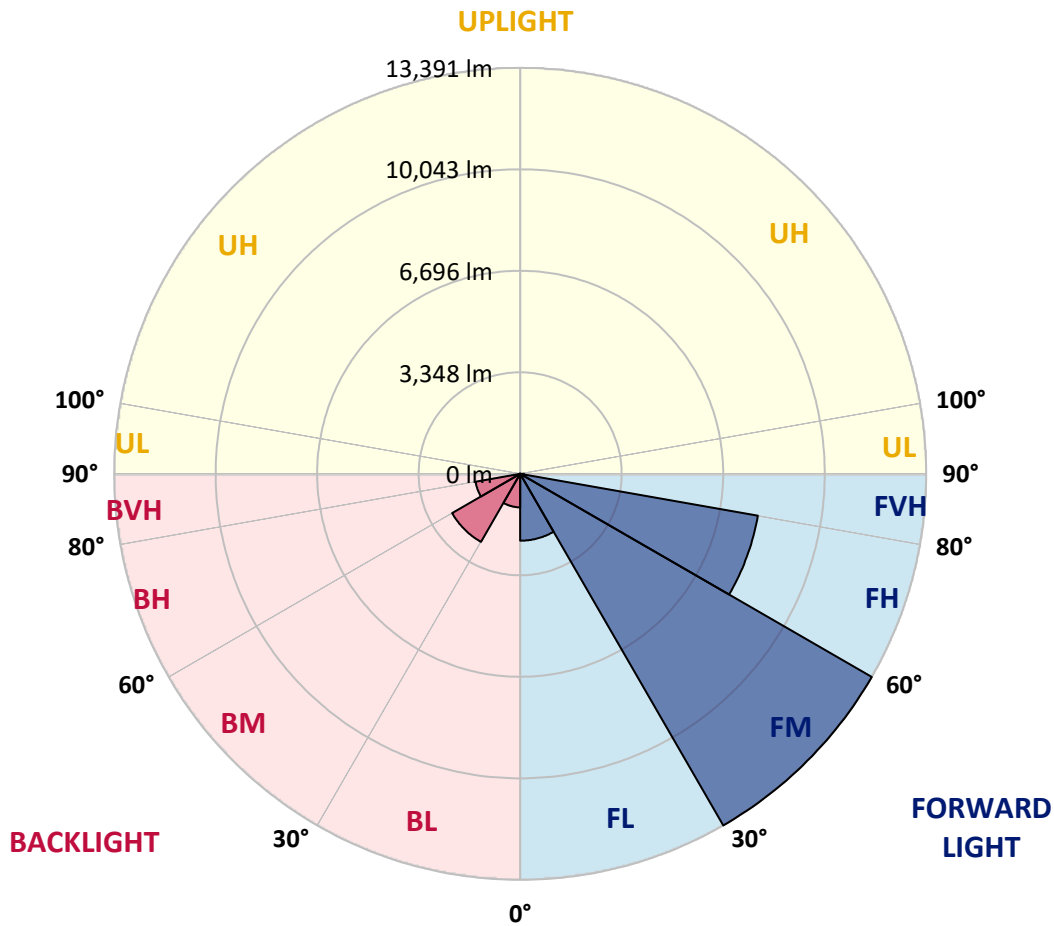
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.7	7.6			
FM (30°-60°)	13391.3	46.3			
FH (60°-80°)	7960.2	27.5			G4/12000
FVH (80°-90°)	118.4	0.4			G2/225
BL (0°-30°)	1106.1	3.8	B3/2500		
BM (30°-60°)	2591.9	9.0	B3/5000		
BH (60°-80°)	1494.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	44.5	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°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
2.5°	5062.6	5091.7	5075.1	5066.8	5052.2	5031.4	5014.7	4962.7	4908.6	4873.2
5°	5164.6	5193.7	5191.7	5200.0	5210.4	5216.6	5212.5	5154.2	5077.2	5016.8
7.5°	5077.2	5110.5	5137.5	5179.2	5252.0	5329.1	5366.5	5354.0	5274.9	5191.7
10°	4829.5	4864.8	4929.4	5027.2	5181.3	5347.8	5487.3	5551.8	5501.8	5410.2
12.5°	4375.7	4411.0	4538.0	4750.4	5008.5	5297.8	5564.3	5737.1	5749.6	5658.0
15°	3865.6	3901.0	4036.3	4302.8	4696.2	5160.4	5605.9	5932.7	6043.1	5964.0
17.5°	3549.2	3580.5	3682.5	3896.9	4307.0	4885.7	5591.3	6140.9	6392.8	6330.3
20°	3453.5	3480.5	3528.4	3678.3	4019.7	4600.5	5495.6	6336.6	6769.6	6734.2
22.5°	3555.5	3580.5	3595.0	3661.6	3876.1	4413.1	5374.9	6536.4	7206.7	7210.9
25°	3790.7	3815.7	3799.0	3840.7	3934.3	4354.8	5329.1	6771.6	7756.3	7802.1
27.5°	4177.9	4180.0	4140.4	4138.3	4152.9	4442.3	5376.9	7023.5	8449.5	8534.8
30°	4954.4	4923.1	4771.2	4606.7	4531.8	4704.6	5510.2	7321.2	9267.6	9419.5
32.5°	6151.3	6105.5	5826.6	5433.1	5037.6	5127.1	5749.6	7660.5	10158.5	10433.3
35°	7450.3	7437.8	7146.3	6561.4	5870.3	5728.7	6138.8	8106.0	11130.6	11567.8
37.5°	8657.6	8651.4	8484.9	7795.8	6954.8	6567.6	6763.3	8688.9	12171.5	12804.3
40°	9760.9	9779.7	9613.1	8996.9	8149.7	7643.9	7612.6	9409.1	13328.9	14151.1
42.5°	10714.3	10735.1	10566.5	10110.6	9330.0	8834.6	8655.6	10291.7	14459.2	15597.9
45°	11361.7	11490.8	11465.8	11101.5	10541.5	10027.4	9908.7	11399.2	15747.8	17132.1
47.5°	11544.9	11663.6	11850.9	11900.9	11559.5	11053.6	11195.2	12733.5	17050.9	18668.4
50°	11093.2	11203.5	11592.8	12111.1	12348.4	12192.3	12446.3	14163.6	18385.2	20200.5
52.5°	10202.2	10314.6	10805.9	11626.1	12594.1	13085.3	13701.5	15572.9	19678.0	21651.4
55°	8913.7	9032.3	9663.1	10591.5	12125.7	13453.8	14748.6	16980.1	20862.4	22956.6
57.5°	7160.9	7248.3	7904.1	9203.0	10947.5	13087.4	15520.9	18516.4	21978.2	24238.9
60°	4667.1	4744.1	5506.0	6954.8	8994.9	11863.4	15674.9	20229.6	23460.3	25906.3
62.5°	3103.8	3155.8	3607.5	4671.3	6334.5	9513.2	14773.6	21597.2	25633.6	28808.1
65°	2129.5	2181.6	2633.3	3374.4	4092.5	6292.9	12181.9	21416.1	27602.8	31112.5
67.5°	1519.6	1563.3	1946.4	2645.8	2962.2	3655.4	8258.0	19101.3	27319.7	31200.0
70°	1088.7	1113.7	1430.1	2060.8	2354.4	2196.2	4592.1	14609.1	23920.4	28810.2
72.5°	761.9	770.2	993.0	1569.6	1896.4	1602.9	2185.7	9740.1	18091.7	22613.1
75°	516.3	526.7	668.2	1151.2	1521.7	1224.0	1157.4	5222.9	10620.6	12517.0
77.5°	316.4	320.6	430.9	786.9	1138.7	932.6	745.2	2212.8	4109.2	4034.3
80°	179.0	179.0	274.8	489.2	776.5	601.6	522.5	940.9	1301.0	1142.8
82.5°	99.9	102.0	199.8	303.9	514.2	356.0	287.3	435.1	562.0	497.5
85°	41.6	45.8	122.8	143.6	245.6	176.9	116.6	183.2	208.2	185.3
87.5°	4.2	6.2	37.5	27.1	29.1	35.4	16.7	35.4	29.1	29.1
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°
4789.9	0°	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9	4789.9
4860.7	2.5°	4821.1	4789.9	4710.8	4619.2	4498.5	4440.2	4361.1	4307.0	4261.2	4265.3
4981.4	5°	4914.8	4835.7	4658.8	4438.1	4163.3	3967.6	3759.5	3615.8	3499.3	3474.3
5148.0	7.5°	5043.9	4919.0	4608.8	4211.2	3747.0	3395.2	3080.9	2878.9	2735.3	2689.5
5349.9	10°	5210.4	5029.3	4544.3	3926.0	3257.8	2810.2	2473.0	2314.8	2217.0	2183.7
5587.2	12.5°	5404.0	5156.3	4458.9	3578.4	2754.0	2323.1	2108.7	2029.6	1998.4	1988.0
5878.6	15°	5647.6	5314.5	4329.9	3166.2	2327.3	2025.5	1933.9	1923.5	1927.6	1923.5
6228.3	17.5°	5936.9	5487.3	4119.6	2741.5	2040.0	1873.5	1840.2	1848.5	1858.9	1856.8
6619.7	20°	6253.3	5658.0	3851.1	2364.8	1844.4	1765.2	1746.5	1754.8	1763.2	1759.0
7071.4	22.5°	6613.4	5841.1	3553.4	2071.3	1713.2	1665.3	1644.5	1646.6	1646.6	1638.3
7643.9	25°	7044.3	6043.1	3241.1	1863.1	1613.3	1575.8	1550.8	1542.5	1530.0	1505.0
8339.1	27.5°	7558.5	6257.5	2941.4	1717.4	1534.2	1498.8	1469.7	1448.8	1417.6	1376.0
9173.9	30°	8137.2	6517.7	2687.4	1625.8	1471.7	1436.3	1403.0	1371.8	1326.0	1274.0
10133.5	32.5°	8817.9	6796.6	2502.2	1565.4	1415.5	1378.1	1338.5	1301.0	1251.1	1199.0
11211.8	35°	9629.8	7133.9	2393.9	1523.8	1371.8	1321.9	1278.1	1236.5	1199.0	1153.2
12383.8	37.5°	10510.3	7491.9	2360.6	1503.0	1342.7	1265.7	1215.7	1186.5	1182.4	1155.3
13651.5	40°	11474.1	7916.6	2385.6	1490.5	1311.4	1211.5	1157.4	1151.2	1161.6	1113.7
15006.7	42.5°	12494.1	8420.3	2427.2	1475.9	1267.7	1157.4	1105.4	1105.4	1097.0	1030.4
16438.9	45°	13597.4	9001.1	2468.9	1440.5	1215.7	1103.3	1063.7	1049.2	1013.8	949.2
17879.4	47.5°	14709.0	9592.3	2500.1	1376.0	1153.2	1057.5	1022.1	988.8	936.7	878.5
19292.8	50°	15764.4	10123.1	2466.8	1280.2	1082.5	1013.8	976.3	930.5	874.3	834.7
20631.4	52.5°	16707.4	10583.2	2325.2	1167.8	1007.5	968.0	934.7	886.8	841.0	799.4
21838.7	55°	17527.6	10955.8	2075.4	1061.6	940.9	928.4	895.1	834.7	772.3	736.9
23035.7	57.5°	18314.5	11238.9	1763.2	974.2	880.5	884.7	834.7	780.6	722.3	684.9
24649.0	60°	19361.5	11617.8	1446.8	893.0	816.0	828.5	774.4	734.8	662.0	614.1
27415.5	62.5°	21035.2	12206.9	1149.1	793.1	741.1	745.2	722.3	674.5	587.0	530.8
29465.9	65°	22363.3	11990.4	905.5	684.9	655.7	662.0	662.0	609.9	516.3	451.7
29576.3	67.5°	22213.4	10266.8	722.3	578.7	574.5	578.7	593.3	549.6	458.0	405.9
27323.9	70°	20462.7	8166.4	578.7	480.9	499.6	489.2	530.8	501.7	412.2	360.1
21183.0	72.5°	16697.0	5882.8	441.3	397.6	383.0	399.7	478.8	451.7	343.5	285.2
11220.2	75°	9756.8	3139.1	328.9	314.3	276.9	333.1	424.7	385.1	262.3	210.2
3438.9	77.5°	3176.6	1095.0	241.5	231.1	206.1	268.5	362.2	324.7	214.4	166.5
1007.5	80°	851.4	331.0	164.5	152.0	133.2	199.8	287.3	258.1	154.0	108.2
433.0	82.5°	341.4	139.5	95.8	85.3	72.9	137.4	226.9	208.2	114.5	68.7
135.3	85°	110.3	45.8	35.4	27.1	33.3	85.3	135.3	141.6	81.2	35.4
20.8	87.5°	14.6	6.2	6.2	8.3	6.2	14.6	41.6	39.6	22.9	4.2
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>
4789.9
4223.7
3418.1
2643.7
2158.7
1981.7
1921.4
1852.7
1756.9
1634.1
1500.9
1371.8
1269.8
1201.1
1149.1
1153.2
1115.8
1030.4
947.2
876.4
828.5
795.2
732.7
680.7
607.8
526.7
445.5
397.6
353.9
278.9
204.0
160.3
106.2
68.7
27.1
0.0
0.0

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