

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: P956249

Luminaire Tested: **GALN-SB8D-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

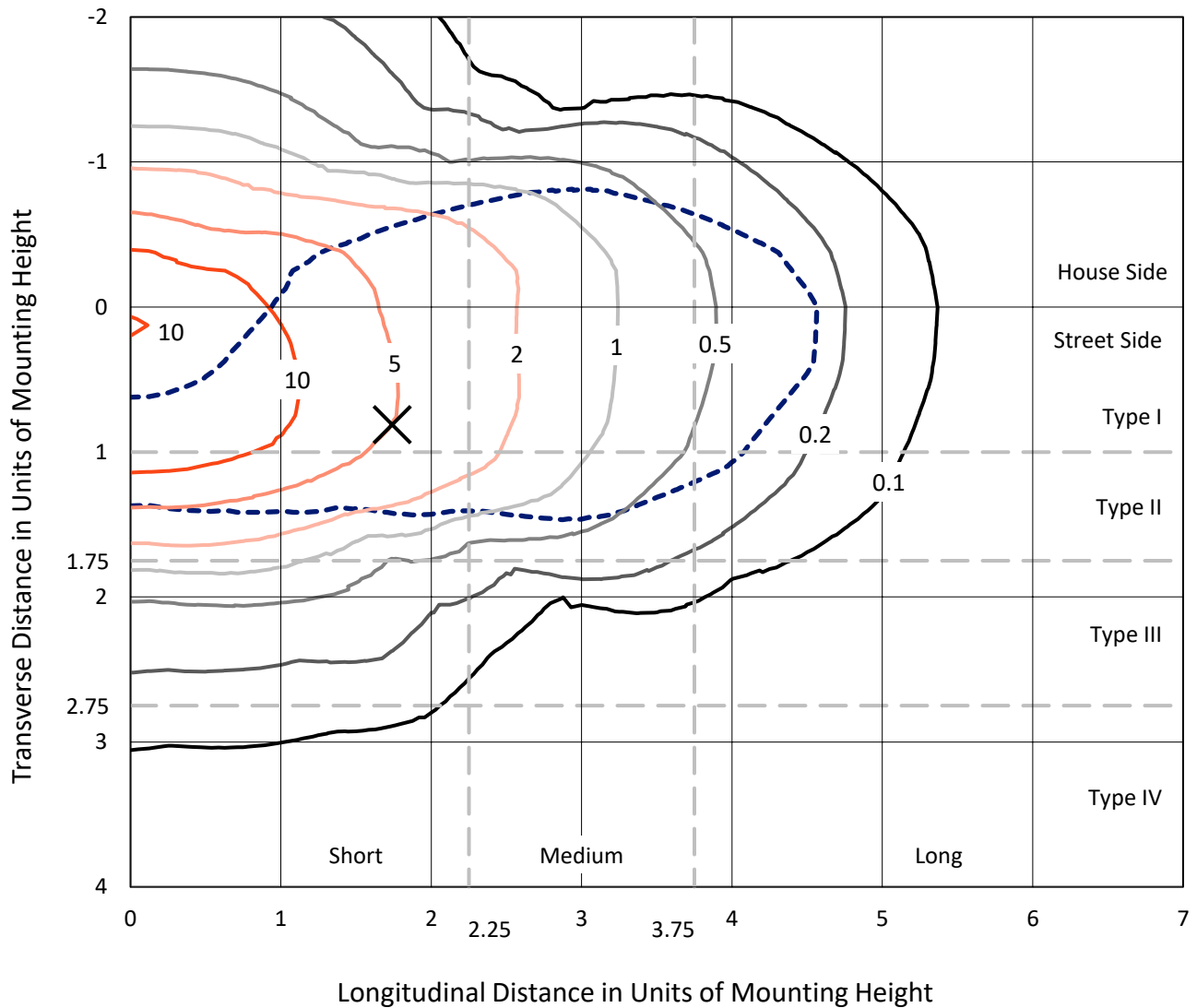
Lumens per Lamp: N/A  
Luminaire Lumens: 58009 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

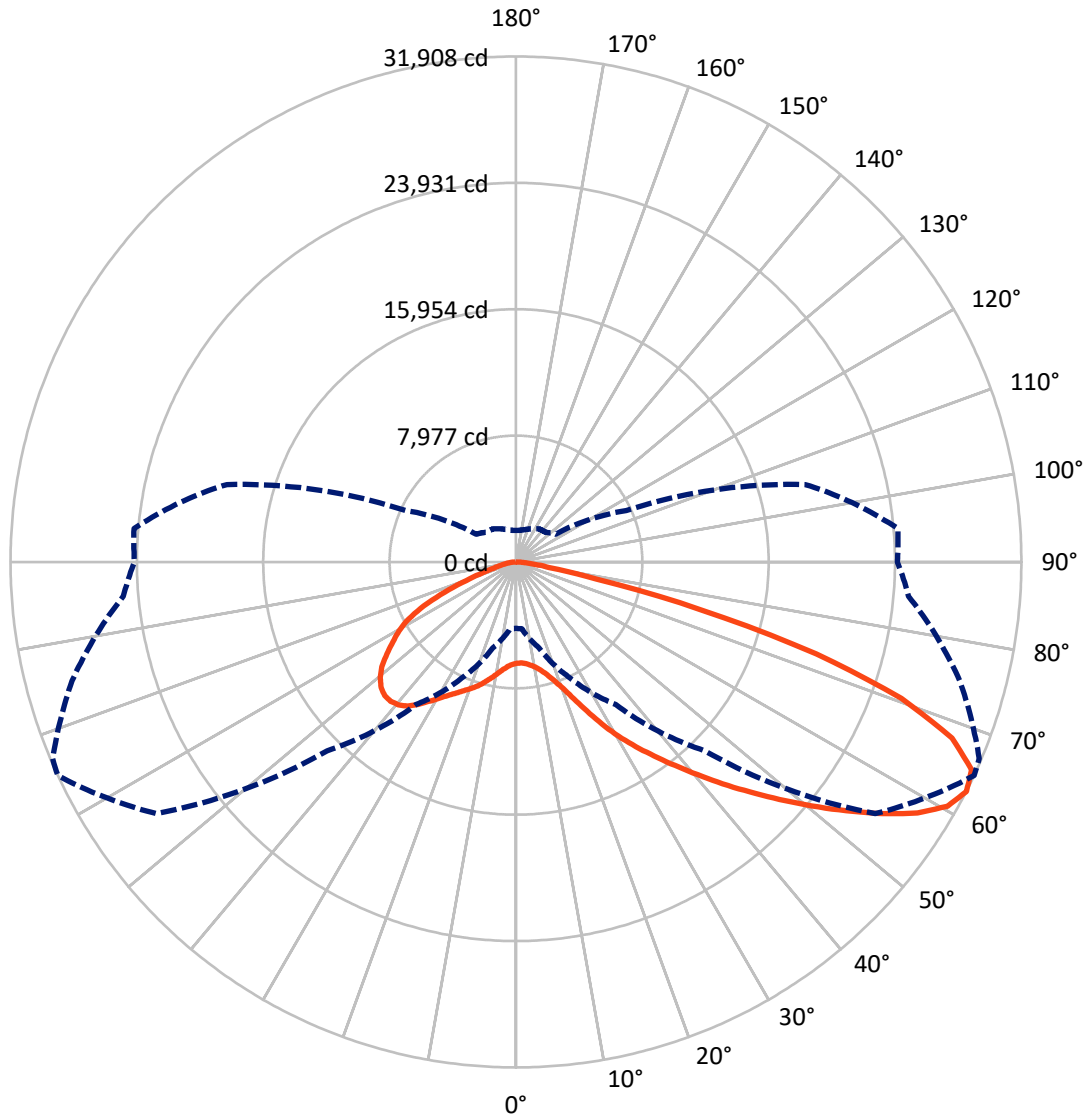
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18305.1	0.0	18305.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	39703.9	0.0	39703.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	58009.0	0.0	58009.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.3	1.1
10°-20°	2161.2	3.7
20°-30°	4382.0	7.6
30°-40°	7583.0	13.1
40°-50°	11475.4	19.8
50°-60°	13454.2	23.2
60°-70°	11279.7	19.4
70°-80°	6227.3	10.7
80°-90°	808.9	1.4
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°	58009.0	100.0
0°-180°	58009.0	100.0

**Coefficient of Utilization**

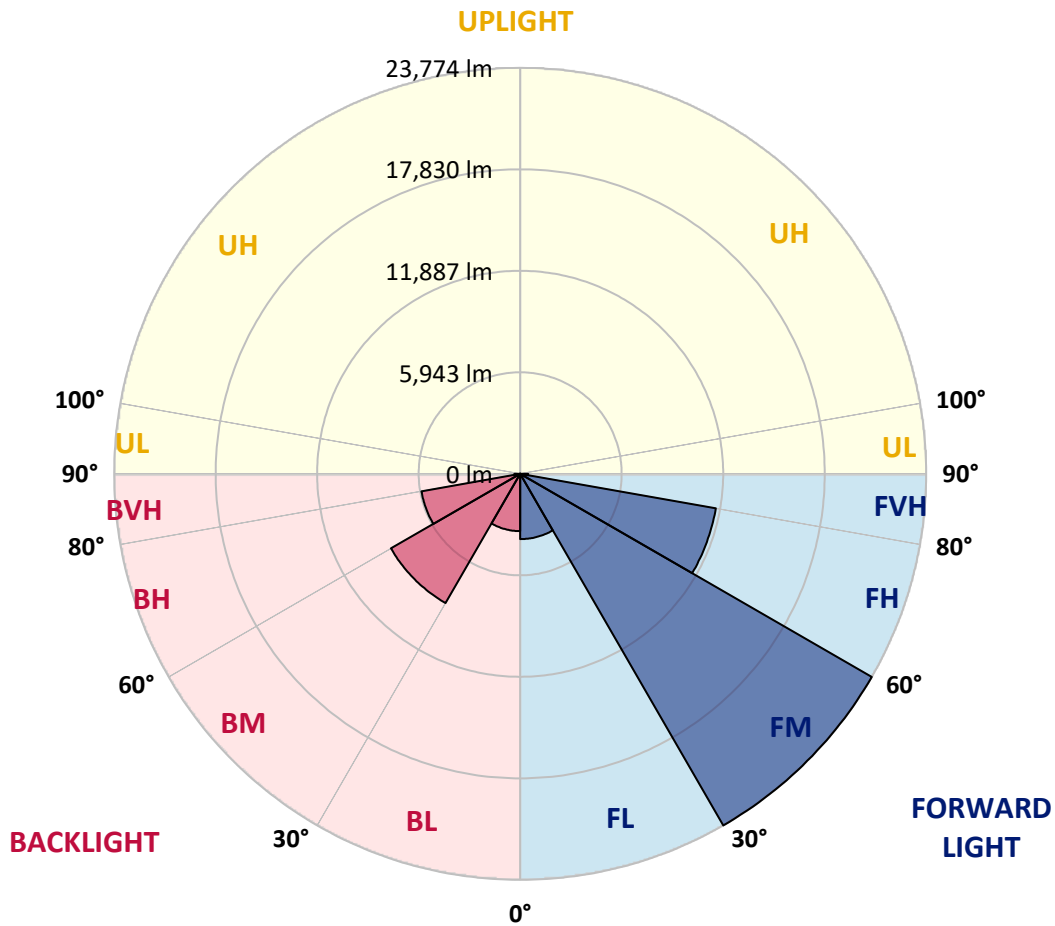


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3823.6	6.6			
FM (30°-60°)	23774.0	41.0			
FH (60°-80°)	11634.9	20.1			G4/12000
FVH (80°-90°)	471.4	0.8			G3/500
BL (0°-30°)	3356.9	5.8	B4/5000		
BM (30°-60°)	8738.6	15.1	B5		
BH (60°-80°)	5872.1	10.1	B5		G5
BVH (80°-90°)	337.4	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3
2.5°	6350.2	6332.1	6347.2	6347.2	6353.2	6350.2	6371.3	6377.3	6386.3	6404.4
5°	6287.0	6284.0	6311.1	6335.2	6359.2	6380.3	6407.4	6446.5	6452.5	6473.6
7.5°	6265.9	6247.9	6290.0	6320.1	6377.3	6428.5	6500.7	6566.9	6594.0	6603.0
10°	6428.5	6398.4	6437.5	6455.5	6503.7	6554.9	6639.1	6744.5	6774.6	6810.7
12.5°	6705.3	6672.2	6729.4	6756.5	6801.6	6846.8	6904.0	7006.3	7021.3	7087.6
15°	7084.5	7045.4	7081.5	7114.6	7189.9	7232.0	7289.2	7388.5	7388.5	7439.7
17.5°	7599.2	7548.0	7575.1	7587.1	7635.3	7698.5	7794.8	7882.1	7927.2	7909.2
20°	8366.6	8303.4	8303.4	8243.2	8225.2	8276.3	8402.7	8523.1	8571.3	8478.0
22.5°	9519.3	9429.0	9377.8	9173.2	9091.9	9097.9	9224.4	9371.8	9410.9	9245.4
25°	10985.0	10843.5	10774.3	10473.3	10289.7	10130.2	10229.6	10419.2	10473.3	10268.7
27.5°	12450.6	12459.6	12393.4	12032.3	11728.3	11436.4	11385.2	11583.9	11641.0	11409.3
30°	14506.2	14292.5	14166.1	13732.7	13299.3	12890.0	12679.3	12760.6	12775.7	12498.8
32.5°	16278.8	16224.6	15953.8	15574.6	15017.8	14376.7	14024.6	13895.2	13871.1	13476.9
35°	18298.2	18268.1	17982.2	17530.8	16928.9	16038.0	15403.0	15032.8	15002.7	14449.0
37.5°	20350.8	20350.8	20070.9	19577.3	18954.3	17840.8	16874.7	16287.8	16191.5	15469.2
40°	21988.0	21888.6	21939.8	21732.2	21018.9	19836.1	18508.9	17657.2	17527.8	16661.0
42.5°	22917.9	22884.8	23191.8	23423.5	23131.6	22186.6	20308.6	19140.9	18960.3	17973.2
45°	23125.6	23089.5	23637.2	24485.9	24895.2	24507.0	22264.8	20702.9	20483.2	19345.6
47.5°	22647.1	22574.8	23378.4	24717.7	26029.8	26713.0	24383.6	22397.3	22078.3	20681.8
50°	21208.5	21139.3	22355.1	24133.8	26412.0	28211.8	26682.9	24194.0	23706.4	22114.4
52.5°	18081.5	18114.6	20019.7	22463.5	25909.4	29144.7	28663.2	26087.0	25500.1	23580.0
55°	14084.8	14157.0	16498.5	19189.1	23899.0	29003.3	30014.5	28037.2	27453.4	24958.4
57.5°	10085.1	10404.1	12598.1	15261.6	20037.8	26761.2	30309.4	29891.1	29325.3	26463.2
60°	6536.8	6594.0	8851.2	11535.7	15258.6	22776.5	29710.5	31296.6	30854.2	27998.1
62.5°	4189.3	4228.5	5603.8	8068.7	10981.9	16850.6	27694.1	31907.5	31772.1	29012.3
65°	3078.8	3048.7	3765.0	5333.0	7397.5	10392.1	23778.7	31612.6	31880.4	29647.3
67.5°	2570.2	2528.0	2880.2	3692.8	5450.3	5901.8	17594.0	29695.5	30676.6	29575.1
70°	2341.5	2305.3	2519.0	2741.7	4252.5	3951.6	8869.2	25816.1	27327.0	28753.5
72.5°	1983.3	1920.1	2212.0	2434.7	3307.5	3030.6	3665.7	19830.1	21672.0	26120.1
75°	1537.9	1495.8	1745.6	2142.8	2485.9	2365.5	2317.4	12041.3	14051.7	20200.3
77.5°	1218.9	1161.7	1390.4	1670.3	2236.1	1784.7	1688.4	5185.5	7177.8	12896.0
80°	917.9	866.8	1056.4	1321.2	1718.5	1345.3	1092.5	2115.7	2705.6	6533.8
82.5°	653.1	607.9	737.3	969.1	1155.7	1206.8	671.1	1185.8	1333.2	2519.0
85°	418.3	391.2	493.6	607.9	734.3	776.5	409.3	620.0	680.2	1038.3
87.5°	228.7	186.6	264.8	282.9	340.1	310.0	195.6	225.7	243.8	376.2
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°
6392.3	0°	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3	6392.3
6404.4	2.5°	6416.4	6425.4	6455.5	6464.6	6485.6	6512.7	6530.8	6548.8	6548.8	6566.9
6500.7	5°	6503.7	6524.8	6588.0	6621.1	6675.2	6729.4	6762.5	6801.6	6825.7	6837.8
6654.2	7.5°	6672.2	6705.3	6795.6	6852.8	6946.1	7021.3	7072.5	7126.7	7138.7	7171.8
6867.9	10°	6901.0	6940.1	7042.4	7150.8	7262.1	7355.4	7403.6	7442.7	7457.7	7463.7
7141.7	12.5°	7162.8	7220.0	7352.4	7484.8	7602.2	7683.4	7695.5	7686.5	7644.3	7608.2
7478.8	15°	7484.8	7536.0	7683.4	7827.9	7942.3	7957.3	7882.1	7833.9	7782.8	7773.7
7855.0	17.5°	7870.0	7897.1	8032.6	8174.0	8183.0	8131.9	8020.5	7975.4	7927.2	7894.1
8345.6	20°	8318.5	8309.4	8405.7	8465.9	8402.7	8246.2	8077.7	8002.5	7954.3	7915.2
8947.5	22.5°	8854.2	8785.0	8772.9	8757.9	8589.3	8261.3	8032.6	7936.3	7861.0	7806.8
9787.1	25°	9633.7	9368.8	9185.2	9082.9	8703.7	8180.0	7888.1	7674.4	7533.0	7439.7
10813.4	27.5°	10608.8	10163.3	9699.9	9450.1	8703.7	8014.5	7539.0	7192.9	6961.2	6864.8
11806.6	30°	11538.7	11072.2	10389.1	9892.5	8682.6	7743.6	6976.2	6494.7	6223.8	6127.5
12655.3	32.5°	12333.2	11824.6	11120.4	10377.0	8631.5	7304.2	6278.0	5745.3	5483.4	5369.1
13494.9	35°	13070.6	12528.9	11854.7	10909.7	8496.0	6660.2	5510.5	5104.2	4812.3	4628.7
14349.7	37.5°	13826.0	13181.9	12549.9	11391.2	8252.3	5907.8	4920.7	4574.6	4231.5	3984.7
15258.6	40°	14647.6	13877.2	13293.3	11677.2	7852.0	5191.5	4463.2	4147.2	3783.0	3521.2
16305.9	42.5°	15607.7	14710.8	14120.9	11824.6	7304.2	4682.9	4165.3	3855.3	3512.2	3298.5
17428.5	45°	16609.9	15628.7	14876.3	11821.6	6693.3	4445.1	4068.9	3762.0	3382.8	3160.1
18581.1	47.5°	17660.2	16588.8	15529.4	11629.0	6163.6	4478.2	4014.8	3560.3	3142.0	2925.3
19745.8	50°	18713.5	17639.1	16161.4	11267.9	5937.9	4406.0	3813.1	3277.4	2783.9	2588.2
20838.3	52.5°	19757.9	18755.7	16706.2	10753.2	5709.2	4138.2	3554.3	2910.3	2636.4	2501.0
21966.9	55°	20808.2	19860.2	17299.0	10003.8	5137.3	3825.2	3120.9	2771.8	2519.0	2395.6
23071.4	57.5°	21861.6	21136.3	17861.8	9254.4	4418.1	3439.9	2883.2	2603.3	2401.6	2296.3
23995.4	60°	22957.0	22595.9	18442.7	8565.3	3707.8	2946.4	2708.6	2467.9	2263.2	2145.8
24883.2	62.5°	24085.6	24203.0	18897.1	7677.4	3054.7	2645.4	2552.1	2305.3	2106.7	1995.3
25617.5	65°	25223.3	25752.9	19195.1	6446.5	2476.9	2359.5	2383.6	2127.8	1926.1	1829.8
26156.2	67.5°	26081.0	26869.5	19110.8	4878.5	2031.5	2088.6	2172.9	1941.2	1751.6	1676.3
26069.0	70°	26177.3	26737.1	18280.2	3340.6	1700.4	1823.8	1938.2	1757.6	1562.0	1507.8
24841.0	72.5°	24895.2	24931.3	15965.8	2181.9	1438.6	1601.1	1691.4	1571.0	1381.4	1327.2
21732.2	75°	21533.5	20618.6	11722.3	1438.6	1203.8	1375.4	1459.6	1375.4	1191.8	1203.8
16260.7	77.5°	16314.9	14602.5	7117.6	1023.3	1005.2	1155.7	1270.0	1209.8	1053.4	1182.8
8177.0	80°	8405.7	7900.1	3175.1	764.4	794.5	923.9	1044.3	966.1	833.7	794.5
1826.8	82.5°	1926.1	2239.1	1252.0	547.7	574.8	665.1	797.5	725.3	598.9	505.6
761.4	85°	674.1	737.3	553.8	343.1	337.1	415.3	541.7	484.5	406.3	325.0
322.0	87.5°	213.7	279.9	207.7	138.4	144.5	186.6	249.8	228.7	189.6	123.4
0.0	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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<u>180°</u>
6392.3
6566.9
6843.8
7159.8
7448.7
7608.2
7773.7
7897.1
7918.2
7824.9
7475.8
6913.0
6184.7
5426.3
4688.9
4050.9
3572.4
3340.6
3196.2
2955.4
2600.3
2501.0
2383.6
2278.2
2136.8
1992.3
1826.8
1679.3
1510.8
1324.2
1161.7
1041.3
725.3
499.6
343.1
129.4
0.0

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