

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: P956766

Luminaire Tested: **GALN-SB9B-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956766  
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-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

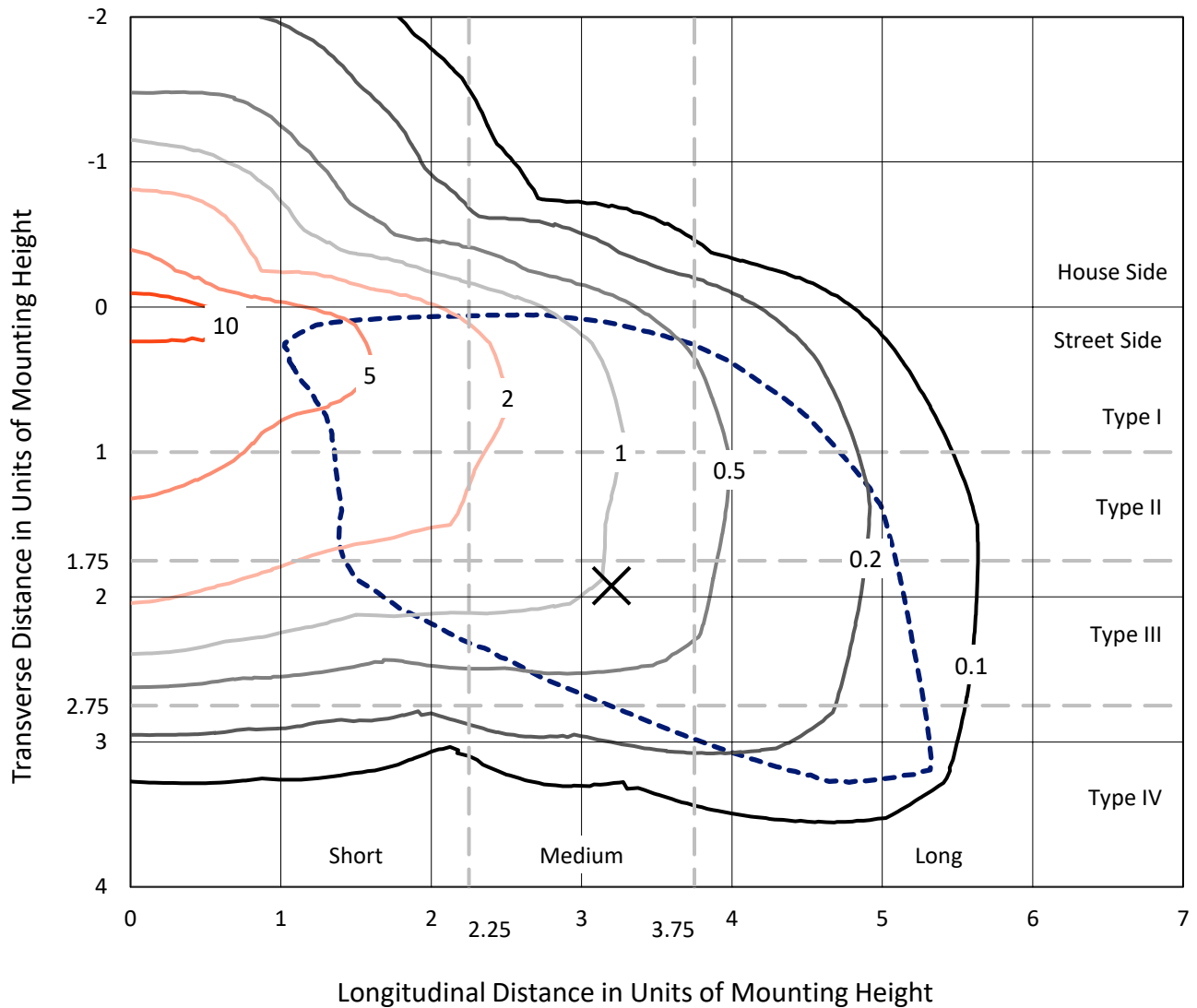
Lumens per Lamp: N/A  
Luminaire Lumens: 43589 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

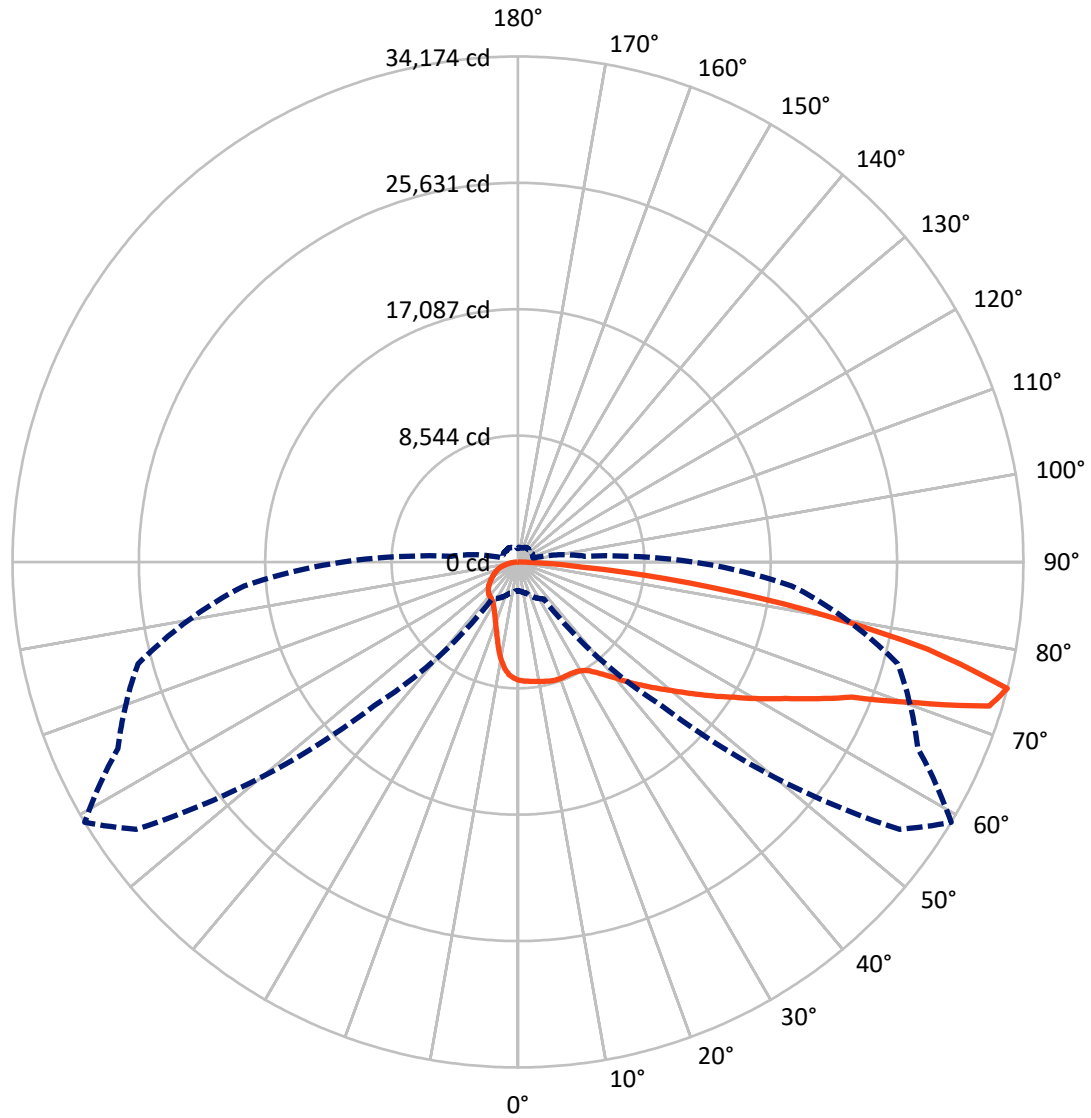
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P956766  
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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	8175.4	0.0	8175.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	35413.6	0.0	35413.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	43589.0	0.0	43589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.4	1.6
10°-20°	1833.7	4.2
20°-30°	2785.2	6.4
30°-40°	4140.2	9.5
40°-50°	6157.2	14.1
50°-60°	8357.6	19.2
60°-70°	10203.3	23.4
70°-80°	8007.4	18.4
80°-90°	1387.1	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°	43589.0	100.0
0°-180°	43589.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956766

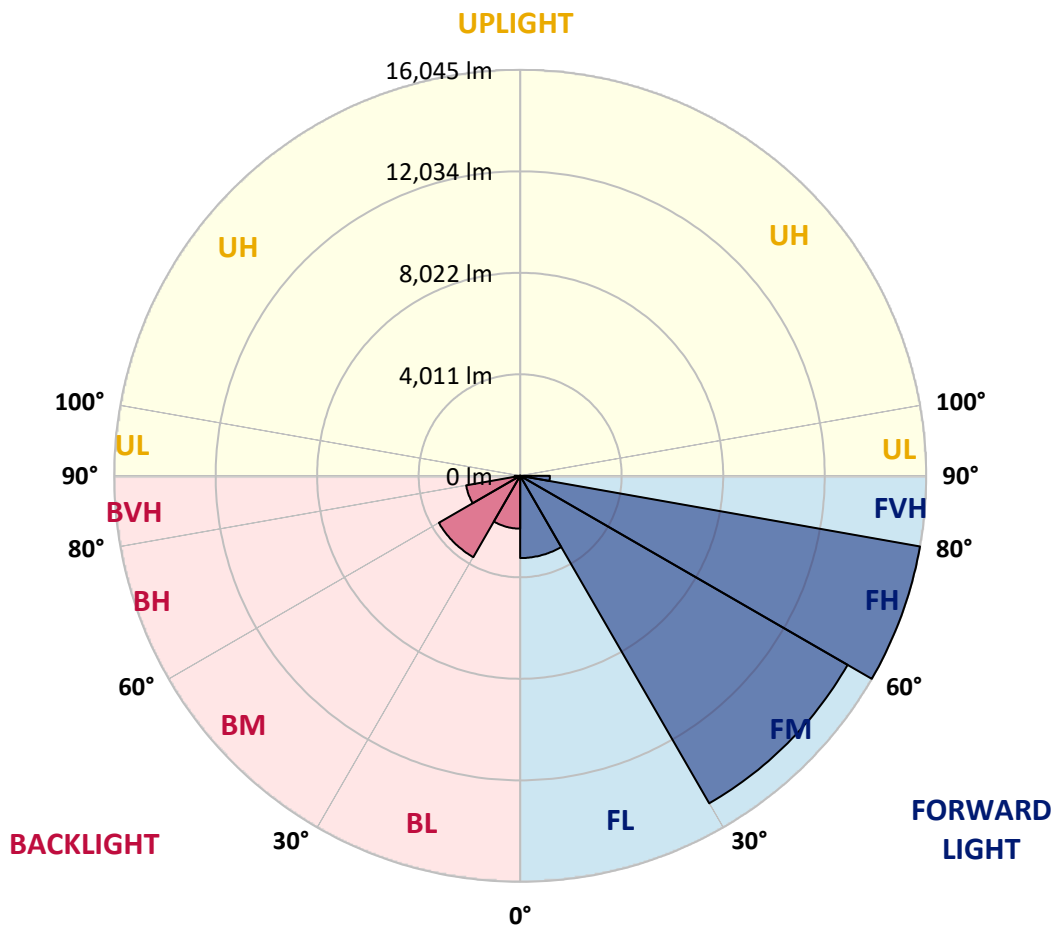
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3250.0	7.5			
FM (30°-60°)	14944.1	34.3			
FH (60°-80°)	16044.7	36.8			G5
FVH (80°-90°)	1174.7	2.7			G5
BL (0°-30°)	2086.3	4.8	B3/2500		
BM (30°-60°)	3710.8	8.5	B3/5000		
BH (60°-80°)	2166.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	212.3	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°	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7
2.5°	8068.7	8040.5	8068.7	8056.9	8052.3	8042.9	8045.2	8061.6	8052.3	8064.0
5°	8014.7	7998.3	8026.5	8019.4	8049.9	8054.6	8085.1	8103.8	8115.6	8117.9
7.5°	7925.6	7909.2	7949.1	7981.9	8047.6	8066.3	8129.6	8160.1	8176.5	8204.7
10°	7599.7	7592.7	7691.1	7815.4	7970.2	8066.3	8162.5	8214.0	8239.8	8314.9
12.5°	7022.9	7032.2	7161.2	7400.4	7709.9	8019.4	8200.0	8275.0	8314.9	8408.7
15°	6471.8	6469.5	6610.2	6865.8	7299.6	7813.1	8218.7	8347.7	8415.7	8554.1
17.5°	6152.9	6143.5	6242.0	6436.6	6840.0	7496.5	8171.8	8387.6	8532.9	8706.5
20°	6094.3	6075.5	6127.1	6223.3	6509.3	7149.5	8049.9	8387.6	8626.7	8851.8
22.5°	6307.7	6277.2	6256.1	6244.4	6371.0	6863.4	7911.6	8359.4	8765.1	9060.5
25°	6736.8	6689.9	6582.0	6476.5	6439.0	6734.4	7789.6	8352.4	8971.4	9341.9
27.5°	7430.9	7372.2	7154.2	6900.9	6673.5	6800.1	7735.7	8394.6	9198.9	9639.7
30°	8291.4	8228.1	7953.8	7564.5	7156.5	7044.0	7803.7	8518.9	9489.7	10036.0
32.5°	9062.9	8992.5	8758.1	8361.8	7810.7	7466.0	8019.4	8755.7	9946.9	10587.0
35°	9747.6	9665.5	9454.5	9088.7	8612.7	8059.3	8408.7	9175.4	10596.4	11482.8
37.5°	10418.2	10322.1	10092.3	9705.4	9372.4	8849.5	8945.6	9714.8	11459.3	12570.8
40°	11168.6	11030.2	10751.2	10369.0	10045.4	9775.7	9651.4	10376.0	12336.3	13785.4
42.5°	11895.5	11764.2	11431.2	11105.3	10699.6	10622.2	10469.8	11149.8	13295.4	15119.7
45°	12678.7	12521.6	12118.2	11705.5	11450.0	11185.0	11262.4	11923.6	14235.6	16479.7
47.5°	13412.6	13236.7	12760.7	12301.1	12160.4	11658.6	11989.3	12774.8	15213.5	17858.5
50°	13808.9	13635.4	13239.1	12824.0	12713.8	12242.5	12777.1	13710.4	16238.2	19232.5
52.5°	14139.5	13951.9	13433.7	13203.9	13171.1	12878.0	13747.9	14779.7	17262.9	20447.2
55°	14491.2	14282.5	13621.3	13414.9	13565.0	13590.8	14899.2	15991.9	18346.2	21631.3
57.5°	14896.9	14631.9	13801.8	13593.2	13949.6	14425.6	16221.7	17248.8	19410.8	22728.7
60°	15279.1	15011.8	14148.9	13876.9	14364.6	15394.0	17738.9	18770.6	20616.0	23706.5
62.5°	15354.1	15133.7	14425.6	14423.2	14927.4	16524.2	19535.0	20306.5	21668.9	24672.6
65°	14055.1	13916.7	13497.0	14402.1	15734.0	18151.6	21535.2	22271.5	23007.8	25516.8
67.5°	10697.3	10716.0	10685.5	12432.5	15082.1	20489.4	24431.1	24374.8	24660.9	26464.1
70°	4891.4	5001.6	5719.1	8582.2	12083.1	20759.0	29219.3	28490.1	26736.1	27690.5
72.5°	2642.7	2727.1	3020.2	4157.4	7264.4	18456.4	32797.6	33315.8	29496.0	28515.8
75°	1939.2	1986.1	2190.1	2642.7	3050.7	13717.4	31514.9	34174.0	29840.7	26590.7
77.5°	1451.5	1472.6	1639.1	2094.0	1561.7	7231.5	25181.5	28302.5	25544.9	21847.1
80°	1052.8	1076.3	1200.6	1571.1	1095.0	2645.0	17291.0	19865.7	17495.0	13926.1
82.5°	726.9	736.3	790.2	1069.3	764.4	1027.0	9810.9	11649.3	9766.3	4886.7
85°	438.5	450.2	473.7	623.7	433.8	487.7	4234.8	4380.2	2919.4	1167.7
87.5°	180.6	192.3	211.0	262.6	171.2	136.0	698.8	877.0	546.4	342.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956766  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8000.7	0°	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7	8000.7
8024.1	2.5°	8012.4	7996.0	7951.4	7890.5	7834.2	7763.8	7733.3	7707.6	7684.1	7639.6
8087.4	5°	8061.6	8017.1	7897.5	7742.7	7566.9	7374.6	7187.0	7058.0	6947.8	6865.8
8160.1	7.5°	8136.7	8052.3	7834.2	7517.6	7114.3	6701.6	6328.8	6063.8	5864.5	5791.8
8263.3	10°	8214.0	8113.2	7733.3	7175.3	6478.8	5843.4	5348.6	5076.6	4917.2	4865.6
8385.2	12.5°	8305.5	8157.8	7576.2	6699.3	5768.4	5071.9	4640.5	4481.0	4399.0	4370.8
8535.3	15°	8439.2	8195.3	7339.4	6103.7	5090.7	4509.2	4230.1	4119.9	4077.7	4075.4
8690.1	17.5°	8540.0	8202.3	6971.3	5465.9	4570.1	4169.2	3939.4	3897.2	3925.3	3967.5
8842.5	20°	8652.5	8139.0	6488.2	4884.3	4204.3	3871.4	3775.2	3803.4	3871.4	3932.3
9044.1	22.5°	8732.3	8024.1	5904.4	4431.8	3887.8	3700.2	3695.5	3754.1	3791.6	3822.1
9281.0	25°	8802.6	7829.5	5285.3	4051.9	3627.5	3597.0	3648.6	3629.8	3604.1	3629.8
9517.8	27.5°	8854.2	7522.3	4731.9	3718.9	3444.6	3526.7	3496.2	3454.0	3451.6	3465.7
9796.8	30°	8837.8	7112.0	4277.0	3402.4	3315.6	3395.4	3322.7	3315.6	3308.6	3315.6
10216.6	32.5°	8837.8	6645.3	3927.6	3184.3	3233.6	3203.1	3196.0	3179.6	3151.5	3149.1
10786.4	35°	8887.0	6178.7	3627.5	3067.1	3165.6	3092.9	3097.6	3057.7	2999.1	2970.9
11541.4	37.5°	8987.9	5803.5	3329.7	3010.8	3046.0	3043.6	3024.9	2956.9	2853.7	2764.6
12484.0	40°	9231.7	5693.3	3125.7	2985.0	2989.7	3017.8	2968.6	2837.3	2602.8	2457.4
13440.7	42.5°	9613.9	5878.6	3081.1	2921.7	2952.2	2980.3	2884.2	2579.3	2412.9	2326.1
14444.3	45°	10099.3	6202.2	3177.3	2830.2	2863.1	2912.3	2626.2	2480.9	2405.8	2408.2
15438.6	47.5°	10713.7	6542.2	3355.5	2750.5	2734.1	2762.2	2455.1	2366.0	2262.8	2288.6
16392.9	50°	11424.2	6886.9	3524.3	2642.7	2591.1	2499.6	2344.9	2260.4	2129.1	2068.2
17314.4	52.5°	12193.3	7219.8	3592.3	2511.3	2436.3	2330.8	2269.8	2166.7	2007.2	1906.4
18184.4	55°	12922.5	7522.3	3517.3	2354.2	2281.5	2199.5	2190.1	2126.8	1955.6	1814.9
18958.2	57.5°	13611.9	7775.6	3329.7	2194.8	2124.4	2075.2	2138.5	2108.0	1892.3	1711.7
19689.8	60°	14195.8	7949.1	3057.7	2033.0	1983.8	1958.0	2054.1	2044.7	1803.2	1601.5
20346.4	62.5°	14660.1	8017.1	2757.6	1878.2	1866.5	1819.6	1936.9	1936.9	1690.6	1493.7
20923.2	65°	15023.5	7951.4	2452.7	1725.8	1749.3	1678.9	1793.8	1779.7	1571.1	1397.5
21586.8	67.5°	15344.8	7735.7	2115.1	1575.7	1629.7	1540.6	1643.7	1610.9	1439.7	1301.4
22161.3	70°	15487.8	7233.9	1730.5	1425.7	1491.3	1404.6	1493.7	1432.7	1292.0	1198.2
21530.5	72.5°	14338.8	6012.2	1362.4	1268.6	1324.8	1254.5	1331.9	1261.5	1132.6	1090.4
18592.4	75°	11862.6	4511.5	1048.2	1097.4	1139.6	1085.7	1137.3	1085.7	968.4	998.9
13733.8	77.5°	8615.0	3046.0	801.9	916.8	935.6	907.5	952.0	893.4	787.9	780.8
6844.6	80°	4284.1	1784.4	628.4	724.6	717.5	698.8	750.4	722.2	633.1	670.6
1847.8	82.5°	1240.4	764.4	457.2	508.8	494.8	499.5	537.0	551.0	825.4	818.4
574.5	85°	389.2	300.1	274.3	283.7	269.7	276.7	316.6	628.4	581.5	340.0
178.2	87.5°	100.8	103.2	68.0	72.7	75.0	89.1	100.8	382.2	182.9	119.6
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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180°
8000.7
7618.5
6797.8
5665.2
4785.9
4377.9
4084.7
3983.9
3953.4
3838.5
3646.3
3489.2
3341.4
3179.6
2999.1
2795.1
2476.2
2326.1
2419.9
2354.2
2084.6
1904.0
1814.9
1702.4
1594.5
1486.6
1388.2
1292.0
1179.5
1055.2
912.2
745.7
663.6
837.1
368.1
126.6
0.0

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