

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: P944016

Luminaire Tested: **GALN-SB8D-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8D-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

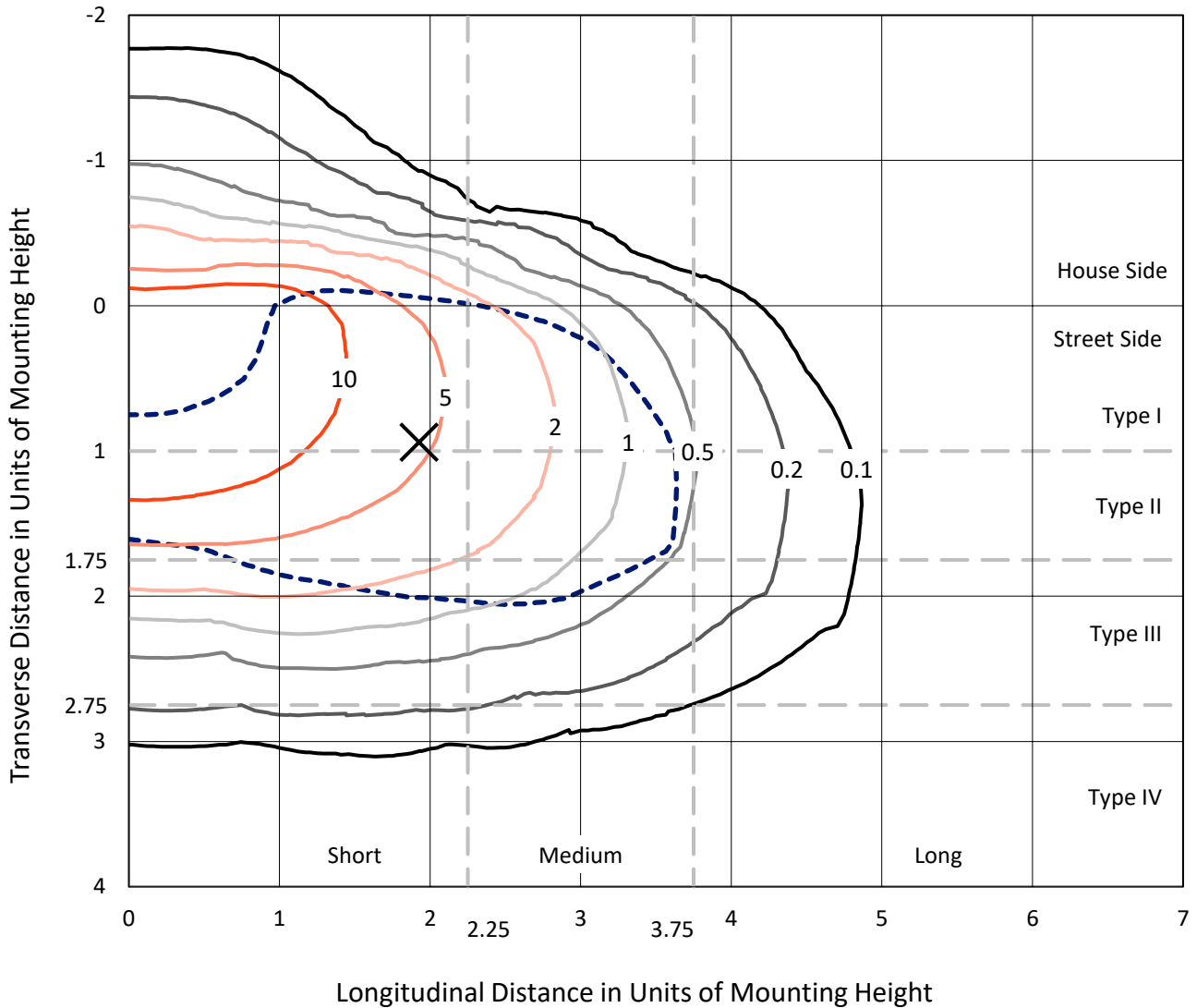
Lumens per Lamp: N/A  
Luminaire Lumens: 64534 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

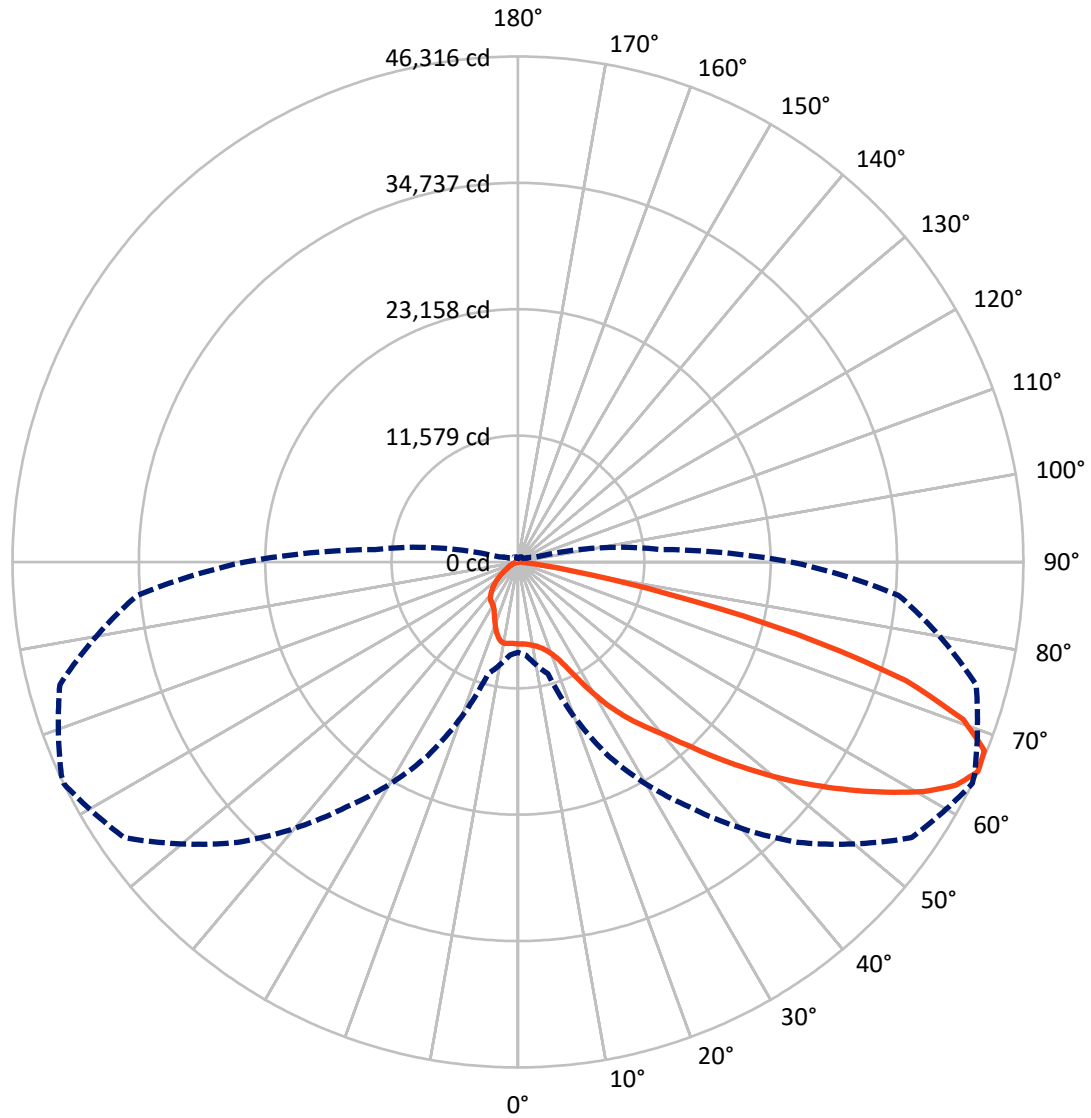
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8630.2	0.0	8630.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	55903.8	0.0	55903.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	64534.0	0.0	64534.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	692.5	1.1
10°-20°	1878.3	2.9
20°-30°	3559.1	5.5
30°-40°	7202.0	11.2
40°-50°	12268.7	19.0
50°-60°	16684.5	25.9
60°-70°	15667.6	24.3
70°-80°	6277.1	9.7
80°-90°	304.1	0.5
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°	64534.0	100.0
0°-180°	64534.0	100.0

**Coefficient of Utilization**



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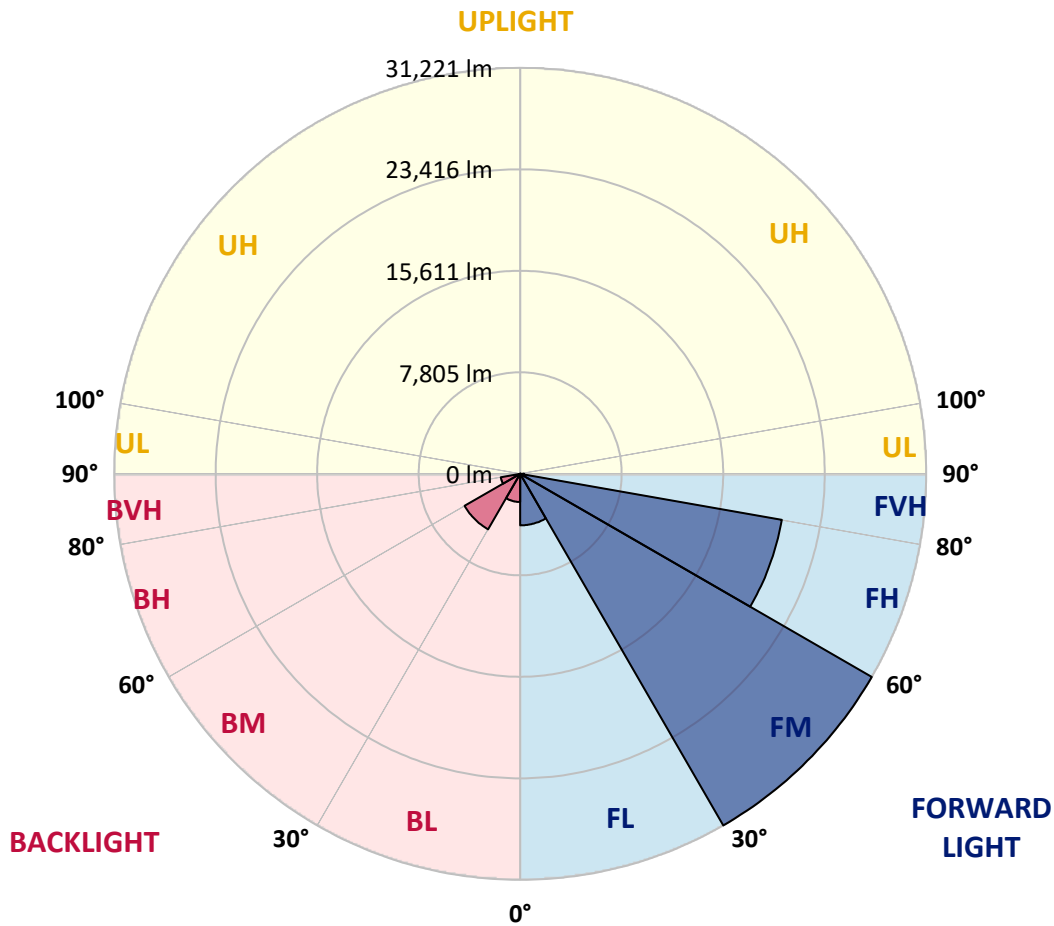
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3963.1	6.1			
FM (30°-60°)	31221.5	48.4			
FH (60°-80°)	20430.0	31.7			G5
FVH (80°-90°)	289.3	0.4			G3/500
BL (0°-30°)	2166.8	3.4	B3/2500		
BM (30°-60°)	4933.8	7.6	B3/5000		
BH (60°-80°)	1514.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	14.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0
2.5°	7480.0	7531.9	7519.0	7506.0	7501.6	7510.3	7514.6	7510.3	7510.3	7510.3
5°	7337.3	7380.5	7380.5	7410.8	7454.1	7506.0	7544.9	7553.6	7562.2	7575.2
7.5°	7064.7	7099.3	7125.3	7224.8	7332.9	7471.4	7588.2	7648.7	7657.4	7705.0
10°	6878.7	6921.9	6965.2	7069.0	7224.8	7432.4	7631.4	7778.5	7800.2	7912.6
12.5°	6870.0	6913.3	6969.5	7082.0	7263.7	7484.3	7726.6	7938.6	7977.5	8141.9
15°	6960.9	7012.8	7064.7	7203.1	7397.8	7666.0	7925.6	8189.5	8228.5	8462.1
17.5°	7146.9	7216.1	7255.1	7393.5	7601.2	7899.7	8241.4	8544.3	8578.9	8851.4
20°	7514.6	7596.8	7609.8	7722.3	7925.6	8245.8	8652.4	9028.8	9072.1	9383.5
22.5°	8276.0	8392.8	8289.0	8345.3	8527.0	8847.1	9288.4	9764.3	9824.8	10179.6
25°	9617.2	9781.6	9513.3	9418.2	9496.0	9829.1	10382.9	10984.2	11053.5	11339.0
27.5°	12251.8	12039.8	11633.2	11235.2	11001.6	11191.9	11814.9	12559.0	12645.5	12922.4
30°	15146.1	14960.0	14410.6	13528.1	12974.3	12944.0	13519.4	14350.0	14449.5	14713.4
32.5°	18044.6	17867.2	17270.2	16184.4	15223.9	14748.0	15146.1	16067.5	16119.5	16288.2
35°	20895.6	20713.9	20116.9	19005.0	17824.0	16742.4	16664.6	17702.9	17720.2	17897.5
37.5°	23763.9	23612.5	22976.5	21886.3	20722.5	19230.0	18507.5	19251.6	19273.3	19446.3
40°	25810.2	25875.1	25438.1	24594.5	23595.1	21964.2	20575.5	20899.9	20770.1	21060.0
42.5°	27566.6	27696.4	27315.7	26891.7	26312.0	24875.7	23136.6	23080.3	22872.7	23028.4
45°	29085.1	29193.3	28851.5	28752.0	28739.0	27731.0	25935.6	25598.2	25308.3	25278.0
47.5°	29643.2	29850.8	29997.9	30331.1	30980.0	30556.0	28829.9	28306.4	27981.9	27744.0
50°	29855.2	30075.8	30577.7	31546.7	33082.5	33264.2	31711.1	31122.8	30724.7	30292.1
52.5°	29569.6	29963.3	30638.2	32269.2	34497.2	35436.0	34475.6	33960.7	33506.5	32801.3
55°	27886.7	28280.4	29660.5	32260.5	35202.4	36958.8	37088.6	36859.3	36348.8	35237.0
57.5°	24339.3	24923.3	27108.0	31161.7	35189.4	38269.7	39649.7	39814.1	39243.1	37651.0
60°	19424.7	20216.4	22881.3	28726.0	34103.5	38979.2	41895.0	42717.0	42111.3	40030.4
62.5°	13554.0	14471.2	16993.4	24910.3	31620.3	38468.7	43534.7	45053.2	44594.6	42158.9
65°	8267.4	8561.6	10594.9	19602.1	27397.9	36331.5	44040.8	46316.4	46165.0	43461.1
67.5°	5507.3	5753.9	6337.9	13441.5	21267.6	32061.5	42829.5	46095.8	46139.0	43249.1
70°	3318.2	3530.2	3910.9	7817.5	13783.3	25377.5	39078.7	43283.7	43534.7	40415.5
72.5°	1367.1	1509.8	1855.9	3543.2	7138.2	16106.5	31118.4	37162.1	37746.2	33982.4
75°	774.4	847.9	1090.2	1778.1	3097.6	7506.0	18849.3	26381.2	27242.1	23422.1
77.5°	514.8	549.4	705.2	1150.8	1743.5	2561.1	8055.4	13744.4	15388.3	12792.6
80°	346.1	376.4	484.5	770.1	1133.5	1098.9	2565.4	5091.9	6264.4	4395.4
82.5°	233.6	237.9	346.1	506.2	718.2	532.1	757.1	1583.4	1990.1	1271.9
85°	134.1	129.8	255.2	294.2	320.1	220.6	229.3	475.9	623.0	536.5
87.5°	17.3	26.0	99.5	77.9	43.3	47.6	47.6	82.2	121.1	129.8
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°
7506.0	0°	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0	7506.0
7514.6	2.5°	7514.6	7510.3	7497.3	7484.3	7454.1	7436.8	7445.4	7436.8	7432.4	7436.8
7570.9	5°	7570.9	7557.9	7523.3	7480.0	7419.5	7345.9	7298.3	7229.1	7164.2	7125.3
7722.3	7.5°	7722.3	7709.3	7661.7	7540.6	7345.9	7038.7	6757.5	6510.9	6324.9	6216.8
7964.6	10°	7964.6	7942.9	7869.4	7601.2	7090.7	6420.1	5862.0	5399.1	5096.3	4953.5
8250.1	12.5°	8250.1	8224.1	8094.3	7544.9	6606.1	5559.2	4789.1	4274.3	3993.1	3867.6
8578.9	15°	8587.5	8552.9	8297.7	7276.7	5901.0	4607.4	3902.2	3517.2	3335.5	3223.0
8998.5	17.5°	9007.2	8946.6	8449.1	6874.3	5135.2	3880.6	3357.1	3067.3	2907.2	2799.1
9547.9	20°	9552.3	9452.8	8570.2	6394.1	4430.0	3422.0	2989.4	2747.1	2626.0	2530.8
10326.7	22.5°	10313.7	10170.9	8717.3	5875.0	3932.5	3106.2	2716.9	2539.5	2440.0	2331.8
11412.5	25°	11256.8	11088.1	8899.0	5394.8	3590.8	2833.7	2517.9	2370.8	2254.0	2128.5
12835.9	27.5°	12576.3	12273.5	9115.3	5001.1	3296.6	2600.1	2336.2	2171.8	2037.6	1933.8
14449.5	30°	14047.2	13549.7	9305.7	4763.2	3028.3	2383.7	2098.2	1933.8	1808.4	1734.8
15898.8	32.5°	15440.2	14765.4	9431.1	4659.3	2786.1	2137.1	1838.6	1661.3	1566.1	1544.5
17317.8	35°	16755.4	15864.2	9418.2	4559.8	2569.8	1890.6	1583.4	1401.7	1328.1	1341.1
18845.0	37.5°	18269.6	17036.6	9327.3	4404.1	2392.4	1665.6	1362.8	1202.7	1137.8	1142.1
20700.9	40°	20030.4	18390.7	9271.1	4109.9	2197.7	1457.9	1181.1	1051.3	1003.7	986.4
22656.4	42.5°	21907.9	19701.6	9279.7	3776.8	1955.4	1271.9	1055.6	947.4	904.2	891.2
24832.4	45°	23794.2	20951.8	9292.7	3430.7	1700.2	1129.1	964.7	873.9	847.9	830.6
27038.8	47.5°	25567.9	22016.1	9050.4	3058.6	1449.3	1021.0	891.2	830.6	809.0	787.4
29253.8	50°	27220.5	22725.6	8466.4	2626.0	1250.3	934.5	835.0	791.7	770.1	748.4
31261.2	52.5°	28505.4	22838.1	7501.6	2180.4	1111.8	869.6	800.3	761.4	735.5	713.8
32883.5	55°	29076.5	22132.9	6130.2	1765.1	1003.7	813.3	765.7	726.8	696.5	674.9
34159.8	57.5°	28929.4	20649.0	4780.5	1419.0	899.9	757.1	722.5	696.5	661.9	627.3
35193.7	60°	28206.9	18663.3	3603.7	1181.1	804.7	696.5	674.9	653.3	605.7	553.8
35591.7	62.5°	26956.6	16167.0	2569.8	977.7	700.8	627.3	618.6	601.3	532.1	436.9
35003.4	65°	25044.4	13134.4	1730.5	813.3	601.3	549.4	553.8	523.5	432.6	324.5
32848.9	67.5°	22249.7	9604.2	1107.5	666.2	501.8	458.6	462.9	445.6	367.7	276.9
28765.0	70°	18689.2	6359.5	722.5	506.2	402.3	354.7	380.7	385.0	311.5	225.0
22076.6	72.5°	13701.1	3755.2	506.2	376.4	294.2	246.6	311.5	320.1	250.9	168.7
13281.5	75°	7808.8	1782.4	380.7	272.6	181.7	173.0	242.3	242.3	173.0	112.5
5749.5	77.5°	3279.3	744.1	268.2	177.4	103.8	99.5	164.4	151.4	86.5	51.9
1401.7	80°	947.4	333.1	142.8	86.5	43.3	38.9	64.9	47.6	21.6	8.7
532.1	82.5°	372.1	147.1	56.2	34.6	17.3	17.3	8.7	0.0	0.0	0.0
302.8	85°	220.6	60.6	26.0	13.0	4.3	0.0	0.0	0.0	0.0	0.0
64.9	87.5°	56.2	13.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
7506.0
7454.1
7133.9
6221.1
4940.5
3854.7
3227.4
2790.4
2513.5
2314.5
2115.5
1912.2
1721.8
1557.4
1341.1
1159.4
982.0
886.9
830.6
787.4
748.4
709.5
670.6
623.0
545.1
428.3
315.8
263.9
216.3
160.1
103.8
51.9
8.7
0.0
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