

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: P954547

Luminaire Tested: **GALN-SB7D-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

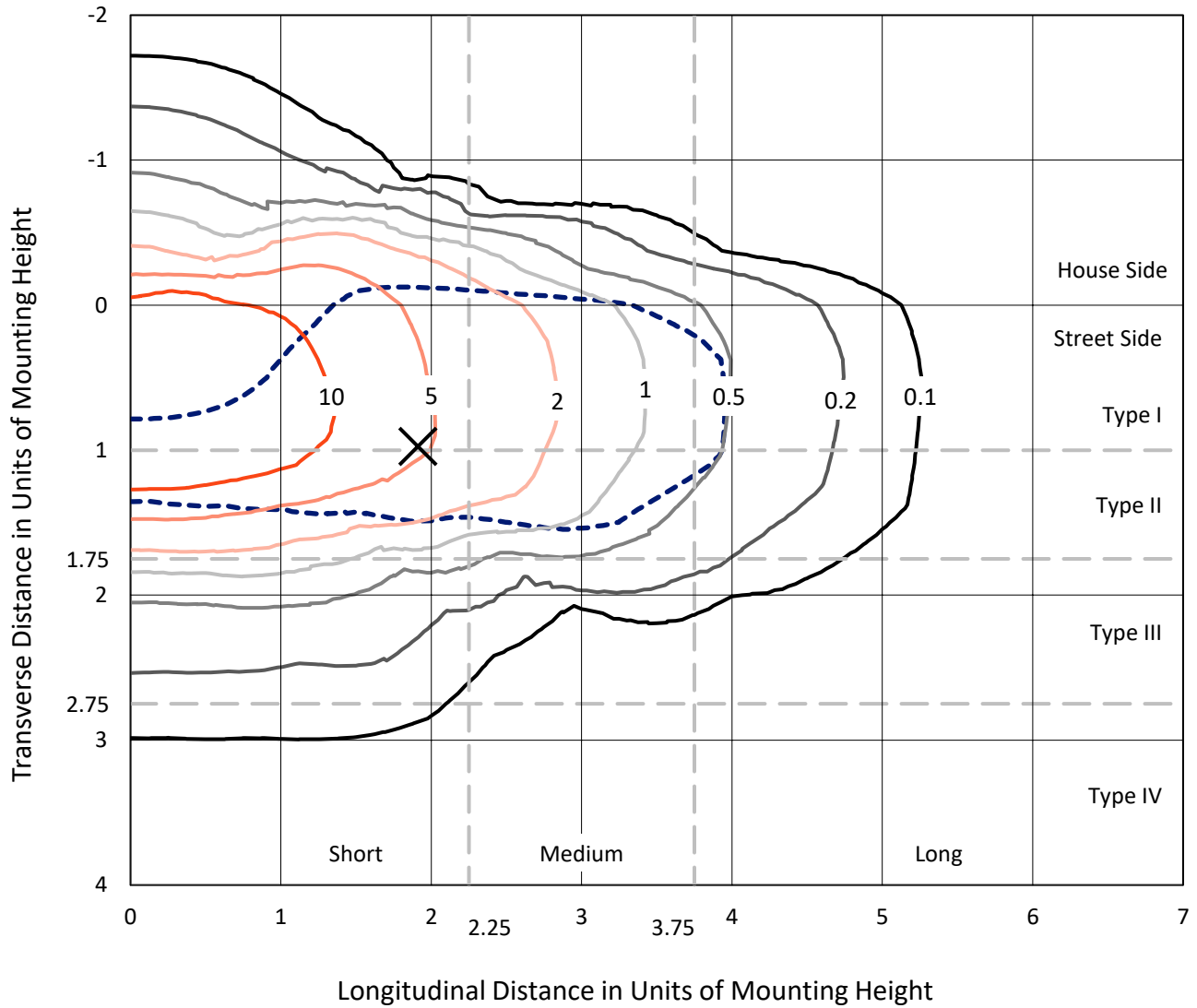
Lumens per Lamp: N/A  
Luminaire Lumens: 55307 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

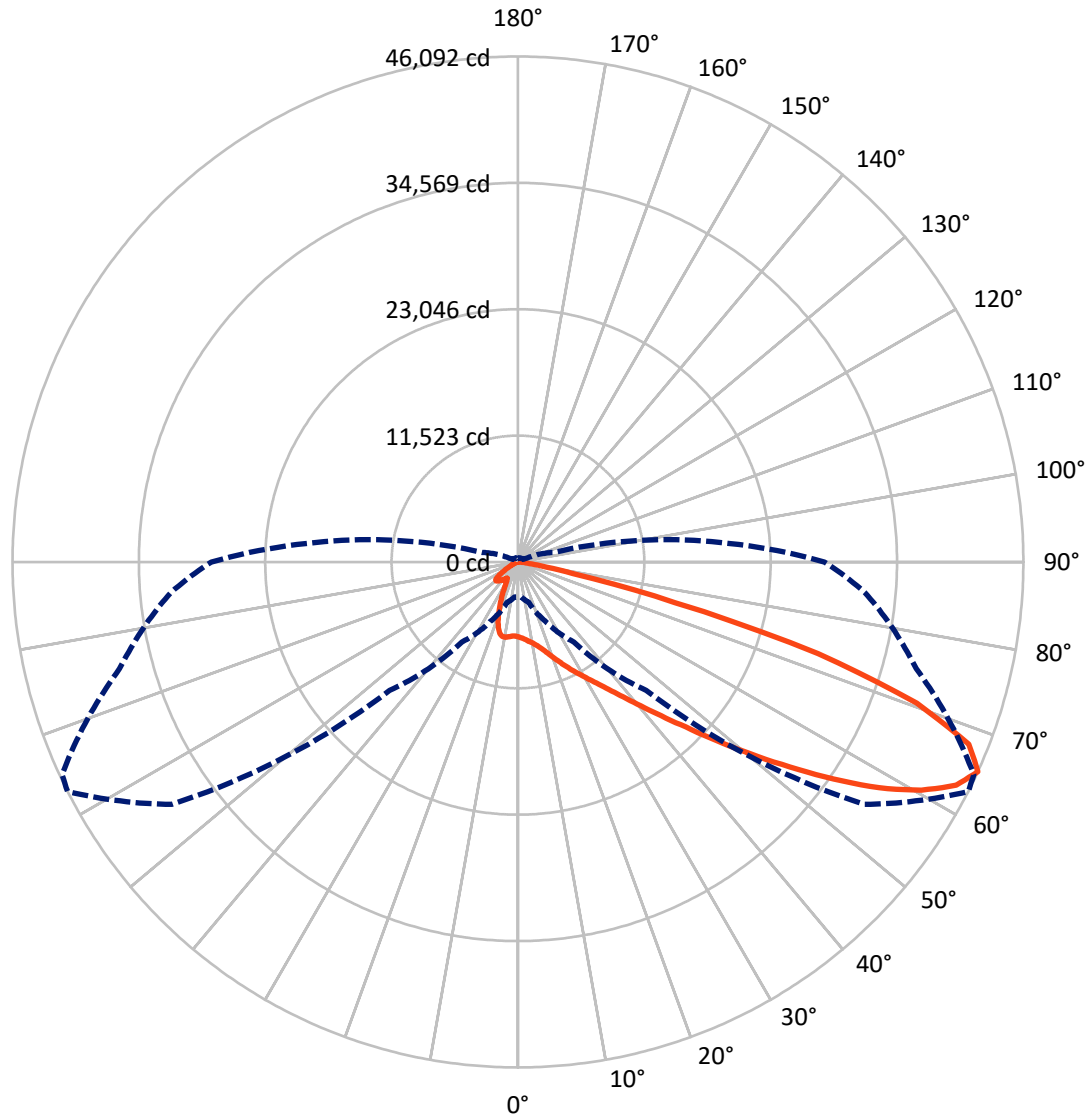
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8129.7	0.0	8129.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	47177.3	0.0	47177.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	55307.0	0.0	55307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	643.1	1.2
10°-20°	1784.5	3.2
20°-30°	3107.2	5.6
30°-40°	5600.4	10.1
40°-50°	11107.3	20.1
50°-60°	15130.0	27.4
60°-70°	12076.7	21.8
70°-80°	5465.0	9.9
80°-90°	392.8	0.7
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°	55307.0	100.0
0°-180°	55307.0	100.0

**Coefficient of Utilization**



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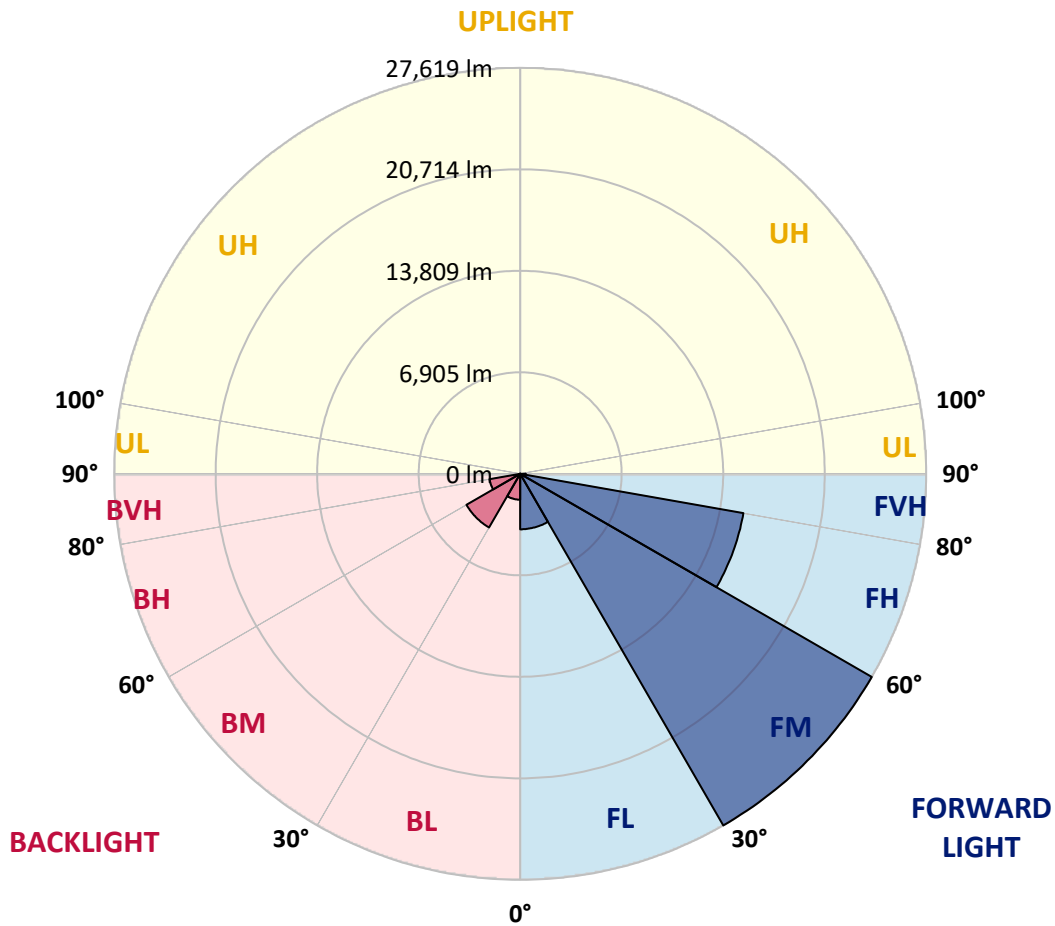
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3775.4	6.8			
FM (30°-60°)	27618.9	49.9			
FH (60°-80°)	15419.3	27.9			G5
FVH (80°-90°)	363.7	0.7			G3/500
BL (0°-30°)	1759.4	3.2	B3/2500		
BM (30°-60°)	4218.8	7.6	B3/5000		
BH (60°-80°)	2122.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	29.1	0.1			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9
2.5°	6985.7	6966.7	6993.3	6981.9	6974.3	6959.1	6951.5	6943.9	6928.7	6917.2
5°	7004.8	6993.3	7020.0	7042.8	7065.6	7088.5	7099.9	7115.1	7099.9	7069.4
7.5°	6845.0	6837.3	6894.4	6962.9	7065.6	7153.1	7248.3	7301.5	7305.3	7293.9
10°	6833.5	6814.5	6871.6	6955.3	7088.5	7244.5	7411.9	7526.0	7541.2	7590.7
12.5°	7012.4	6993.3	7073.2	7164.6	7301.5	7465.1	7670.6	7830.4	7853.2	7921.7
15°	7313.0	7286.3	7377.6	7495.6	7670.6	7857.0	8073.9	8218.5	8237.5	8321.2
17.5°	7663.0	7636.4	7742.9	7868.5	8058.7	8313.6	8564.8	8724.6	8747.4	8800.7
20°	8112.0	8077.7	8161.4	8275.6	8477.2	8781.6	9082.2	9310.5	9306.7	9306.7
22.5°	8633.2	8580.0	8652.3	8743.6	8933.8	9302.9	9702.4	9972.6	9972.6	9866.0
25°	9192.6	9139.3	9219.2	9302.9	9470.3	9888.8	10356.8	10691.7	10706.9	10524.3
27.5°	9892.7	9824.2	9885.0	9984.0	10082.9	10509.0	11064.5	11452.6	11460.3	11178.7
30°	11239.6	11045.5	10855.3	10748.7	10794.4	11216.7	11810.3	12240.3	12278.3	11890.2
32.5°	13705.1	13667.1	12997.4	12122.3	11665.7	11977.7	12643.6	13161.0	13183.9	12685.4
35°	17536.6	17491.0	16414.2	14747.7	13260.0	12997.4	13655.7	14268.2	14253.0	13689.9
37.5°	22110.1	22068.2	20649.0	18419.4	16010.9	14538.4	14960.7	15603.8	15698.9	14960.7
40°	26017.7	25861.7	24963.7	22814.0	19663.5	17095.3	16817.5	17243.7	17342.6	16467.5
42.5°	28977.9	28844.7	28388.1	27045.0	24084.8	20877.3	19005.3	19168.9	19279.3	18229.1
45°	30511.2	30480.8	30663.4	30537.9	28589.8	25519.2	22132.9	21451.8	21493.7	20181.0
47.5°	30728.1	30712.9	31546.1	32725.6	32463.1	30754.7	26147.0	24297.9	24149.5	22384.0
50°	29449.7	29419.2	31017.3	33227.9	35050.4	35153.2	30705.3	27505.4	27178.2	24663.1
52.5°	25367.0	25359.4	27984.8	31664.1	35959.8	39003.7	35210.2	31028.7	30480.8	27075.4
55°	19519.0	19659.7	22669.4	27018.4	34300.9	40856.6	39254.8	34940.1	34099.2	29502.9
57.5°	13826.9	14032.3	17007.7	20881.1	29156.7	39760.8	41990.5	38859.1	37953.5	31922.8
60°	7427.1	7609.7	10588.9	15211.9	21691.5	35674.4	43432.5	42260.6	41404.5	34221.0
62.5°	4425.1	4485.9	5718.7	9820.4	14671.6	27254.3	42820.0	44851.8	44147.9	36150.0
65°	3177.1	3188.5	3808.7	5996.5	8907.2	16558.8	38524.3	46092.1	45875.3	37603.5
67.5°	2674.8	2667.2	2925.9	3983.7	6068.8	8294.6	29525.8	44338.1	45258.9	38524.3
70°	2294.3	2305.7	2610.1	2918.3	4562.0	4695.2	14679.2	38604.2	40567.5	38767.8
72.5°	1708.4	1746.4	2028.0	2659.6	3443.4	3230.3	5068.1	28624.0	32173.9	36526.7
75°	1206.1	1225.2	1426.8	2237.3	2568.3	2351.4	2587.3	14797.1	19347.7	28003.8
77.5°	928.4	962.6	1080.6	1563.8	2530.2	1651.3	1582.8	5121.3	7868.5	16916.4
80°	502.2	563.1	780.0	1130.0	1776.9	1168.1	783.8	2039.4	2667.2	7910.3
82.5°	258.7	289.2	544.1	814.2	1012.1	1019.7	388.1	848.5	1099.6	2442.7
85°	102.7	125.6	365.3	449.0	521.3	502.2	175.0	342.4	395.7	677.3
87.5°	22.8	38.0	133.2	102.7	98.9	106.5	41.9	79.9	76.1	79.9
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°
6825.9	0°	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9	6825.9
6871.6	2.5°	6867.8	6852.6	6810.7	6765.1	6711.8	6681.3	6662.3	6658.5	6631.9	6612.9
7023.8	5°	6981.9	6966.7	6886.8	6791.7	6689.0	6609.1	6533.0	6464.5	6365.5	6346.5
7244.5	7.5°	7210.2	7168.4	7039.0	6909.6	6715.6	6483.5	6201.9	5878.5	5589.3	5501.8
7537.4	10°	7491.8	7434.7	7271.1	7042.8	6612.9	5981.2	5300.2	4668.6	4166.3	4025.5
7883.7	12.5°	7811.4	7761.9	7545.0	7122.7	6182.9	5037.6	3995.1	3211.3	2724.3	2602.5
8252.8	15°	8191.9	8119.6	7819.0	7001.0	5414.3	3827.7	2743.3	2279.1	2104.1	2081.3
8675.1	17.5°	8595.2	8477.2	8062.5	6563.4	4379.4	2720.5	2119.3	1986.1	1910.0	1887.2
9101.2	20°	8964.3	8812.1	8207.1	5901.3	3272.2	2119.3	1898.6	1811.1	1742.6	1716.0
9527.4	22.5°	9333.3	9116.5	8207.1	4999.6	2454.1	1879.6	1742.6	1662.7	1582.8	1548.6
9984.0	25°	9717.6	9428.5	8062.5	3995.1	1974.7	1723.6	1594.2	1506.7	1438.2	1396.4
10417.7	27.5°	10090.5	9691.0	7731.5	3043.9	1757.8	1586.6	1457.3	1373.6	1308.9	1278.4
10889.5	30°	10444.4	9949.7	7267.3	2309.6	1617.1	1453.5	1331.7	1259.4	1194.7	1164.3
11502.1	32.5°	10923.8	10276.9	6772.7	1894.8	1495.3	1327.9	1217.6	1149.1	1092.0	1069.2
12297.3	35°	11589.6	10760.2	6346.5	1860.6	1392.6	1225.2	1114.8	1050.1	993.1	974.0
13324.6	37.5°	12533.2	11540.2	6122.0	2088.9	1308.9	1133.8	1031.1	962.6	909.4	894.1
14629.7	40°	13697.5	12597.9	6243.8	2317.2	1251.8	1053.9	955.0	886.5	840.9	821.9
16128.8	42.5°	15078.7	13903.0	6917.2	2492.2	1213.8	985.5	882.7	806.6	776.2	768.6
17829.6	45°	16665.3	15337.4	7948.4	2678.6	1152.9	920.8	810.4	753.4	730.5	726.7
19678.8	47.5°	18468.8	16912.6	9143.1	2910.7	1092.0	859.9	753.4	715.3	696.3	688.7
21607.8	50°	20257.1	18499.3	10372.1	3040.1	1042.5	802.8	707.7	677.3	662.0	658.2
23647.2	52.5°	22129.1	20131.5	11365.1	2918.3	1000.7	757.2	669.7	646.8	631.6	627.8
25526.8	55°	23913.6	21451.8	11536.4	2477.0	917.0	711.5	627.8	616.4	597.4	597.4
27433.1	57.5°	25450.7	22113.9	10326.4	1818.7	833.3	643.0	585.9	574.5	559.3	555.5
29152.9	60°	26862.4	21923.6	7971.2	1225.2	741.9	574.5	532.7	525.1	509.9	490.8
30648.2	62.5°	27657.6	21086.6	5452.4	799.0	650.6	502.2	471.8	468.0	433.8	395.7
31755.4	65°	27958.2	19366.8	3401.5	582.1	544.1	429.9	407.1	399.5	350.0	308.2
32383.2	67.5°	27695.6	16535.9	1716.0	460.4	429.9	357.7	334.8	334.8	300.6	262.5
32345.2	70°	26645.5	12396.3	722.9	369.1	331.0	274.0	274.0	289.2	254.9	213.1
30667.2	72.5°	24366.4	8340.3	384.3	281.6	247.3	194.0	224.5	235.9	201.7	159.8
25100.7	75°	19370.6	5087.1	266.3	209.3	156.0	137.0	171.2	178.8	137.0	106.5
17209.4	77.5°	13248.5	2922.1	178.8	133.2	98.9	79.9	118.0	110.3	72.3	49.5
6635.7	80°	5817.6	1217.6	102.7	60.9	38.0	30.4	41.9	30.4	22.8	15.2
909.4	82.5°	681.1	285.4	38.0	22.8	15.2	7.6	3.8	0.0	0.0	0.0
277.8	85°	140.8	34.2	19.0	7.6	3.8	0.0	0.0	0.0	0.0	0.0
49.5	87.5°	26.6	7.6	3.8	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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180°  
6825.9  
6631.9  
6338.9  
5460.0  
3972.3  
2568.3  
2058.4  
1875.8  
1700.8  
1529.6  
1381.2  
1278.4  
1168.1  
1069.2  
974.0  
890.3  
818.0  
768.6  
722.9  
688.7  
658.2  
627.8  
593.6  
551.7  
487.0  
388.1  
304.4  
258.7  
209.3  
159.8  
102.7  
53.3  
15.2  
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