

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: P956122

Luminaire Tested: **GALN-SB8D-840-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956122  
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-SB8D-840-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

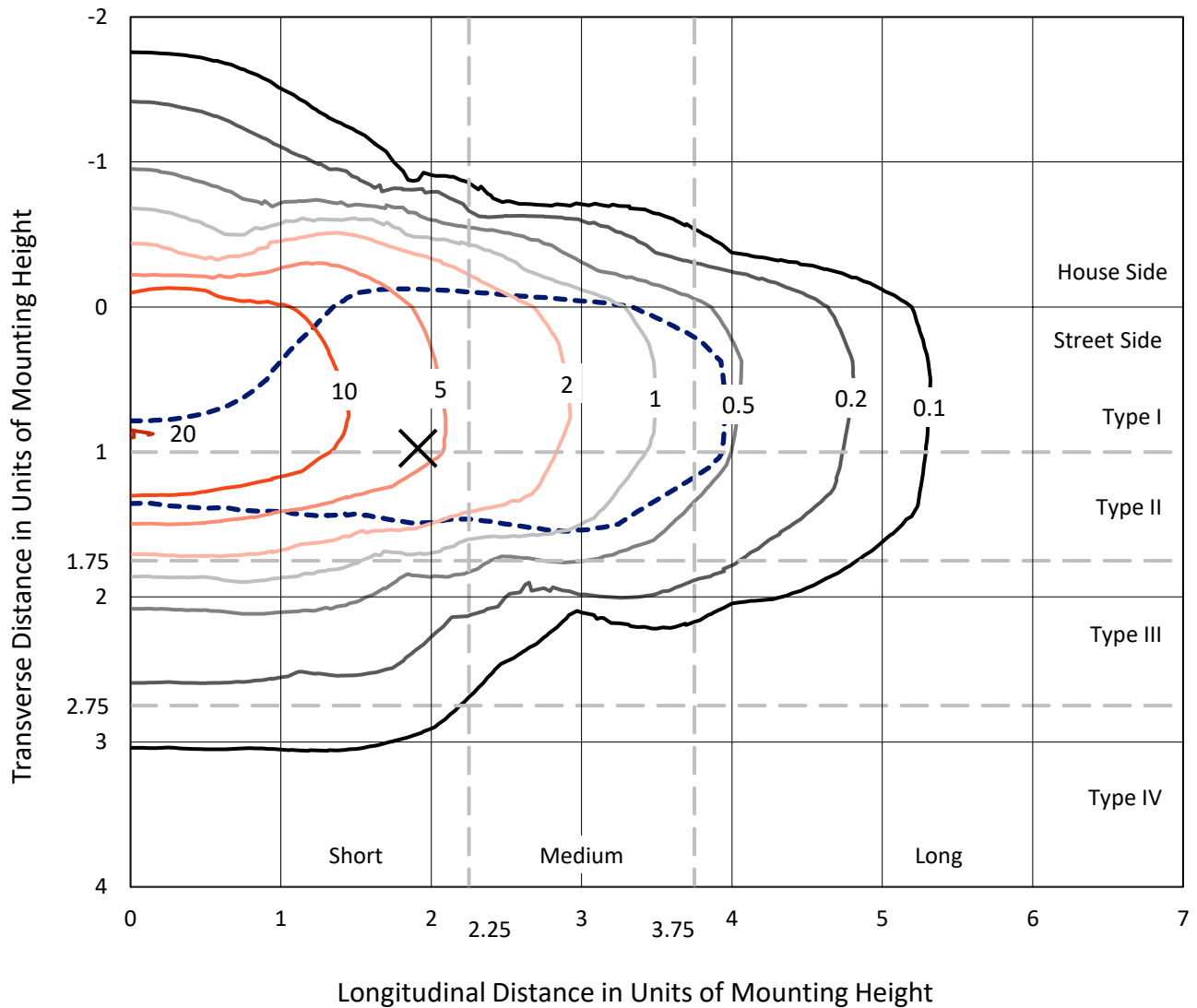
Lumens per Lamp: N/A  
Luminaire Lumens: 60152 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

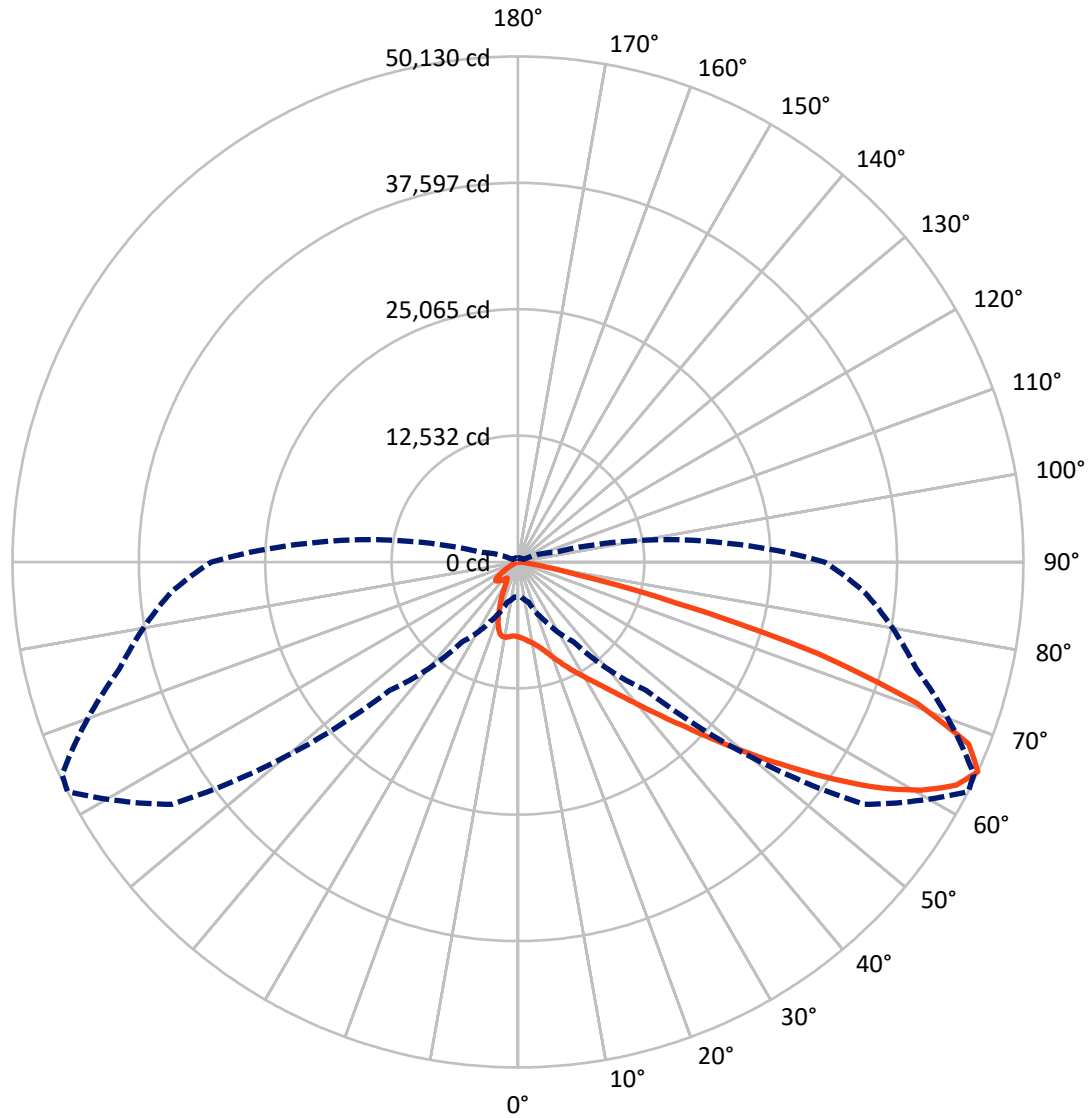
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	8841.9	0.0	8841.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	51310.1	0.0	51310.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	60152.0	0.0	60152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.5	1.2
10°-20°	1940.8	3.2
20°-30°	3379.4	5.6
30°-40°	6091.0	10.1
40°-50°	12080.4	20.1
50°-60°	16455.5	27.4
60°-70°	13134.6	21.8
70°-80°	5943.7	9.9
80°-90°	427.2	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°	60152.0	100.0
0°-180°	60152.0	100.0

**Coefficient of Utilization**



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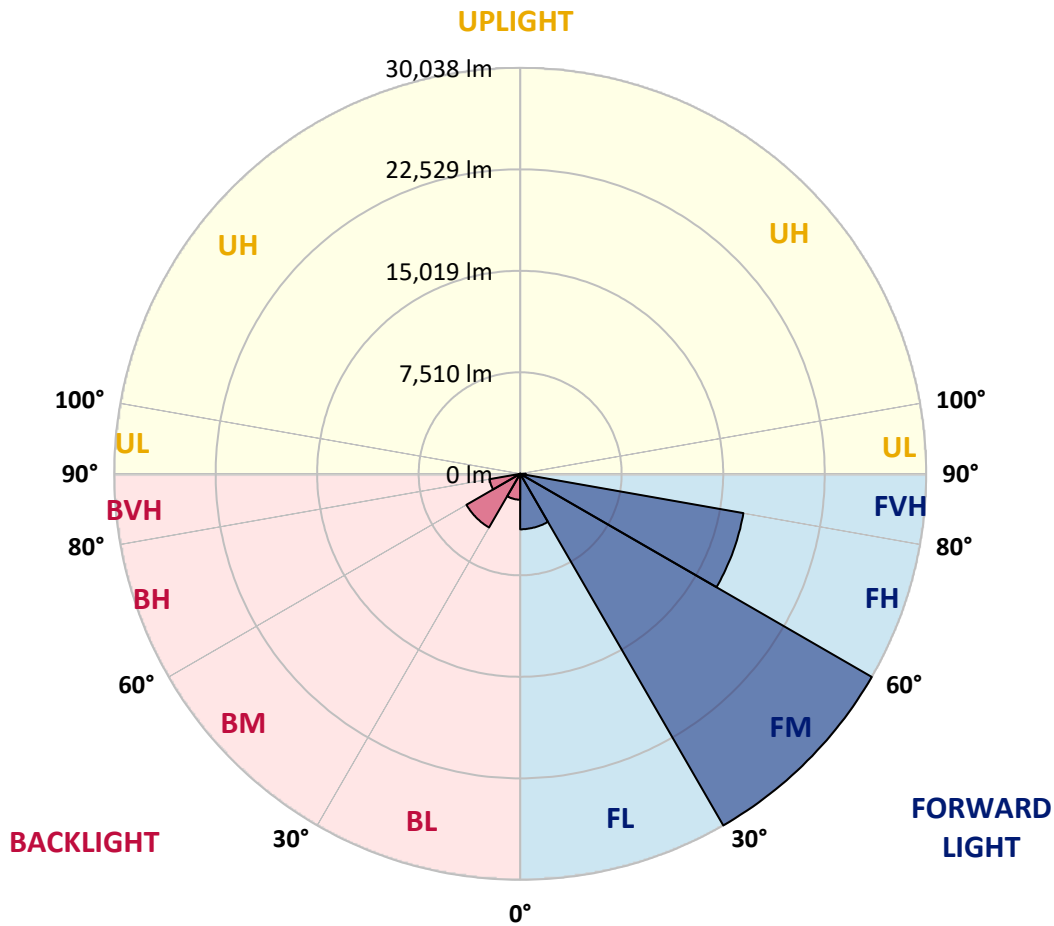
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4106.1	6.8			
FM (30°-60°)	30038.4	49.9			
FH (60°-80°)	16770.1	27.9			G5
FVH (80°-90°)	395.5	0.7			G3/500
BL (0°-30°)	1913.5	3.2	B3/2500		
BM (30°-60°)	4588.4	7.6	B3/5000		
BH (60°-80°)	2308.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	31.7	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°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
2.5°	7597.7	7577.0	7606.0	7593.6	7585.3	7568.7	7560.5	7552.2	7535.6	7523.2
5°	7618.4	7606.0	7634.9	7659.8	7684.6	7709.4	7721.8	7738.4	7721.8	7688.7
7.5°	7444.6	7436.3	7498.4	7572.9	7684.6	7779.8	7883.2	7941.2	7945.3	7932.9
10°	7432.2	7411.5	7473.6	7564.6	7709.4	7879.1	8061.2	8185.3	8201.9	8255.7
12.5°	7626.7	7606.0	7692.9	7792.2	7941.2	8119.1	8342.6	8516.4	8541.2	8615.7
15°	7953.6	7924.6	8023.9	8152.2	8342.6	8545.3	8781.2	8938.5	8959.2	9050.2
17.5°	8334.3	8305.3	8421.2	8557.8	8764.7	9041.9	9315.0	9488.8	9513.7	9571.6
20°	8822.6	8785.4	8876.4	9000.5	9219.9	9550.9	9877.8	10126.1	10122.0	10122.0
22.5°	9389.5	9331.6	9410.2	9509.5	9716.4	10117.8	10552.4	10846.2	10846.2	10730.3
25°	9997.8	9939.9	10026.8	10117.8	10299.9	10755.1	11264.1	11628.3	11644.8	11446.2
27.5°	10759.3	10684.8	10751.0	10858.6	10966.2	11429.7	12033.8	12455.9	12464.2	12158.0
30°	12224.2	12013.1	11806.2	11690.4	11740.0	12199.4	12844.9	13312.5	13353.9	12931.8
32.5°	14905.7	14864.3	14136.0	13184.2	12687.7	13027.0	13751.2	14314.0	14338.8	13796.7
35°	19072.9	19023.2	17852.1	16039.6	14421.6	14136.0	14851.9	15518.2	15501.6	14889.2
37.5°	24047.0	24001.4	22457.9	20032.9	17413.5	15812.0	16271.3	16970.7	17074.1	16271.3
40°	28296.9	28127.2	27150.6	24812.5	21386.1	18592.8	18290.8	18754.2	18861.8	17910.0
42.5°	31516.4	31371.5	30875.0	29414.2	26194.7	22706.2	20670.2	20848.1	20968.2	19826.0
45°	33184.1	33151.0	33349.6	33213.0	31094.3	27754.8	24071.8	23331.1	23376.6	21948.9
47.5°	33419.9	33403.4	34309.6	35592.5	35306.9	33448.9	28437.6	26426.4	26265.0	24344.9
50°	32029.5	31996.4	33734.4	36138.7	38120.9	38232.6	33395.1	29914.9	29559.0	26823.7
52.5°	27589.2	27581.0	30436.3	34437.9	39109.9	42420.5	38294.7	33746.9	33151.0	29447.3
55°	21228.9	21382.0	24655.3	29385.2	37305.7	44435.8	42693.6	38000.9	37086.4	32087.4
57.5°	15038.1	15261.6	18497.7	22710.3	31710.9	43244.0	45668.9	42263.2	41278.3	34719.3
60°	8077.7	8276.4	11516.6	16544.4	23591.8	38799.6	47237.3	45962.8	45031.7	37218.8
62.5°	4812.7	4878.9	6219.7	10680.6	15956.8	29641.8	46571.1	48780.9	48015.3	39316.8
65°	3455.4	3467.8	4142.3	6521.8	9687.5	18009.4	41899.1	50129.9	49894.0	40897.6
67.5°	2909.1	2900.9	3182.3	4332.7	6600.4	9021.2	32112.3	48222.2	49223.6	41899.1
70°	2495.3	2507.7	2838.8	3174.0	4961.7	5106.5	15965.1	41986.0	44121.3	42163.9
72.5°	1858.0	1899.4	2205.6	2892.6	3745.1	3513.3	5512.1	31131.5	34992.4	39726.5
75°	1311.8	1332.5	1551.8	2433.2	2793.3	2557.4	2814.0	16093.4	21042.6	30457.0
77.5°	1009.7	1047.0	1175.2	1700.8	2751.9	1796.0	1721.5	5570.0	8557.8	18398.3
80°	546.2	612.5	848.3	1229.0	1932.5	1270.4	852.5	2218.1	2900.9	8603.3
82.5°	281.4	314.5	591.8	885.6	1100.8	1109.0	422.1	922.8	1195.9	2656.7
85°	111.7	136.6	397.3	488.3	566.9	546.2	190.4	372.4	430.4	736.6
87.5°	24.8	41.4	144.8	111.7	107.6	115.9	45.5	86.9	82.8	86.9
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°
7423.9	0°	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9	7423.9
7473.6	2.5°	7469.4	7452.9	7407.3	7357.7	7299.7	7266.6	7246.0	7241.8	7212.8	7192.2
7639.1	5°	7593.6	7577.0	7490.1	7386.6	7274.9	7188.0	7105.3	7030.8	6923.2	6902.5
7879.1	7.5°	7841.8	7796.3	7655.6	7514.9	7303.9	7051.5	6745.2	6393.5	6079.0	5983.8
8197.7	10°	8148.1	8086.0	7908.1	7659.8	7192.2	6505.2	5764.5	5077.5	4531.3	4378.2
8574.3	12.5°	8495.7	8441.9	8206.0	7746.7	6724.5	5478.9	4345.1	3492.6	2962.9	2830.5
8975.7	15°	8909.5	8830.9	8504.0	7614.2	5888.6	4163.0	2983.6	2478.8	2288.4	2263.6
9435.0	17.5°	9348.1	9219.9	8768.8	7138.4	4763.0	2958.8	2305.0	2160.1	2077.4	2052.5
9898.5	20°	9749.6	9584.0	8926.1	6418.3	3558.8	2305.0	2065.0	1969.8	1895.3	1866.3
10362.0	22.5°	10151.0	9915.1	8926.1	5437.6	2669.1	2044.3	1895.3	1808.4	1721.5	1684.2
10858.6	25°	10568.9	10254.4	8768.8	4345.1	2147.7	1874.6	1733.9	1638.7	1564.2	1518.7
11330.3	27.5°	10974.5	10539.9	8408.8	3310.5	1911.8	1725.6	1584.9	1493.9	1423.5	1390.4
11843.5	30°	11359.3	10821.3	7903.9	2511.9	1758.7	1580.8	1448.4	1369.7	1299.4	1266.3
12509.7	32.5°	11880.7	11177.2	7366.0	2060.8	1626.3	1444.2	1324.2	1249.7	1187.7	1162.8
13374.6	35°	12604.9	11702.8	6902.5	2023.6	1514.6	1332.5	1212.5	1142.1	1080.1	1059.4
14491.9	37.5°	13631.2	12551.1	6658.3	2271.9	1423.5	1233.2	1121.4	1047.0	989.0	972.5
15911.3	40°	14897.4	13701.5	6790.8	2520.2	1361.5	1146.3	1038.7	964.2	914.5	893.8
17541.7	42.5°	16399.6	15120.9	7523.2	2710.5	1320.1	1071.8	960.1	877.3	844.2	835.9
19391.5	45°	18125.2	16681.0	8644.7	2913.3	1253.9	1001.4	881.4	819.4	794.5	790.4
21402.7	47.5°	20086.7	18394.2	9944.0	3165.7	1187.7	935.2	819.4	778.0	757.3	749.0
23500.7	50°	22031.7	20119.8	11280.7	3306.4	1133.9	873.2	769.7	736.6	720.0	715.9
25718.8	52.5°	24067.6	21895.1	12360.7	3174.0	1088.3	823.5	728.3	703.5	686.9	682.8
27763.0	55°	26008.5	23331.1	12547.0	2694.0	997.3	773.8	682.8	670.4	649.7	649.7
29836.3	57.5°	27680.3	24051.1	11231.0	1978.0	906.3	699.4	637.3	624.9	608.3	604.2
31706.7	60°	29215.5	23844.2	8669.5	1332.5	806.9	624.9	579.3	571.1	554.5	533.8
33333.0	62.5°	30080.4	22933.8	5930.0	869.0	707.6	546.2	513.1	509.0	471.8	430.4
34537.2	65°	30407.3	21063.3	3699.5	633.1	591.8	467.6	442.8	434.5	380.7	335.2
35220.0	67.5°	30121.8	17984.5	1866.3	500.7	467.6	389.0	364.2	364.2	326.9	285.5
35178.7	70°	28979.7	13482.2	786.3	401.4	360.0	297.9	297.9	314.5	277.3	231.7
33353.7	72.5°	26500.9	9070.9	418.0	306.2	269.0	211.0	244.2	256.6	219.3	173.8
27299.6	75°	21067.5	5532.7	289.7	227.6	169.7	149.0	186.2	194.5	149.0	115.9
18717.0	77.5°	14409.1	3178.1	194.5	144.8	107.6	86.9	128.3	120.0	78.6	53.8
7217.0	80°	6327.3	1324.2	111.7	66.2	41.4	33.1	45.5	33.1	24.8	16.6
989.0	82.5°	740.7	310.4	41.4	24.8	16.6	8.3	4.1	0.0	0.0	0.0
302.1	85°	153.1	37.2	20.7	8.3	4.1	0.0	0.0	0.0	0.0	0.0
53.8	87.5°	29.0	8.3	4.1	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>
7423.9
7212.8
6894.2
5938.3
4320.3
2793.3
2238.8
2040.1
1849.8
1663.5
1502.2
1390.4
1270.4
1162.8
1059.4
968.3
889.7
835.9
786.3
749.0
715.9
682.8
645.6
600.0
529.7
422.1
331.1
281.4
227.6
173.8
111.7
57.9
16.6
0.0
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0.0

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