

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: P955975

Luminaire Tested: **GALN-SB8D-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955975  
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-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

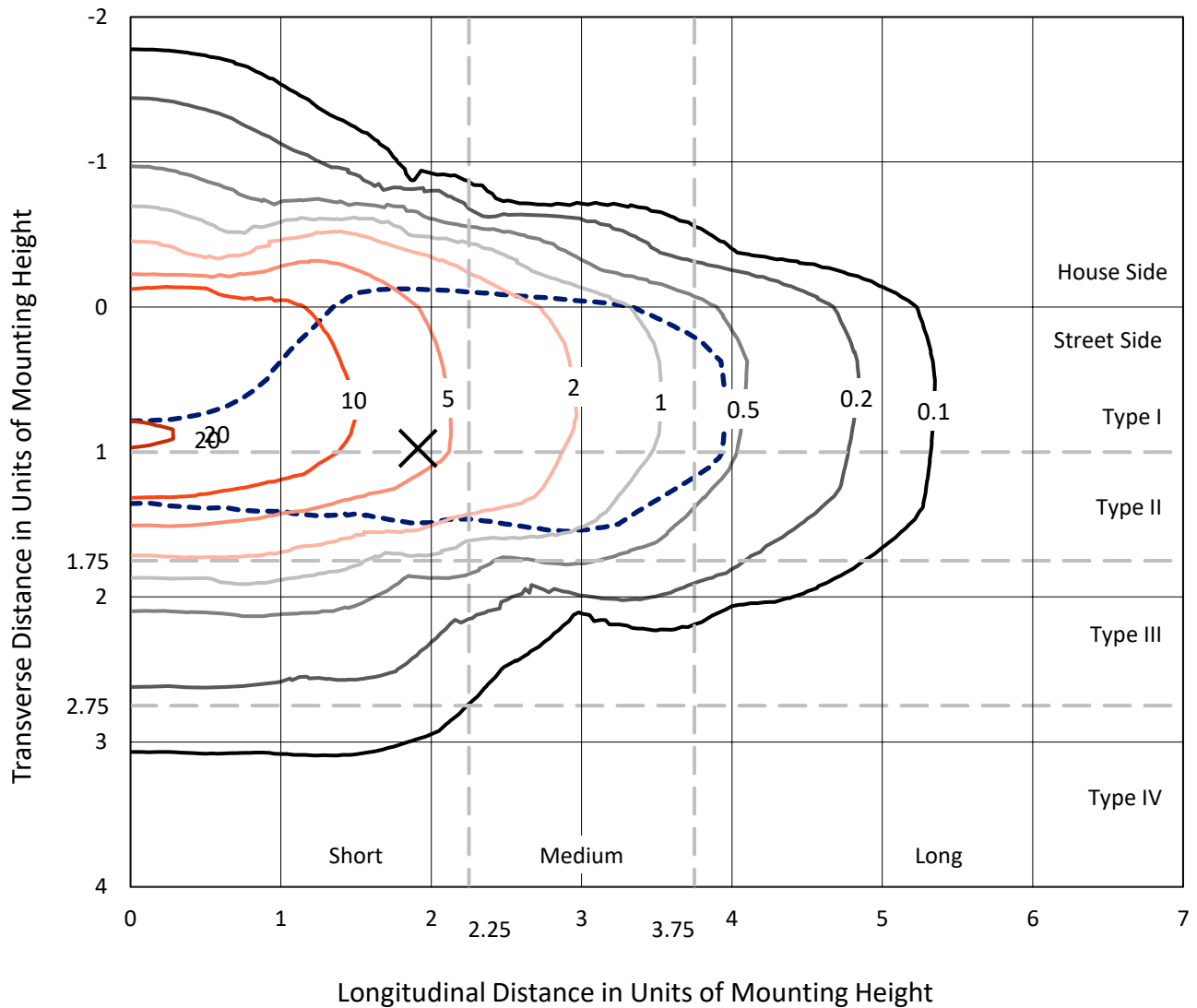
Lumens per Lamp: N/A  
Luminaire Lumens: 62886 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

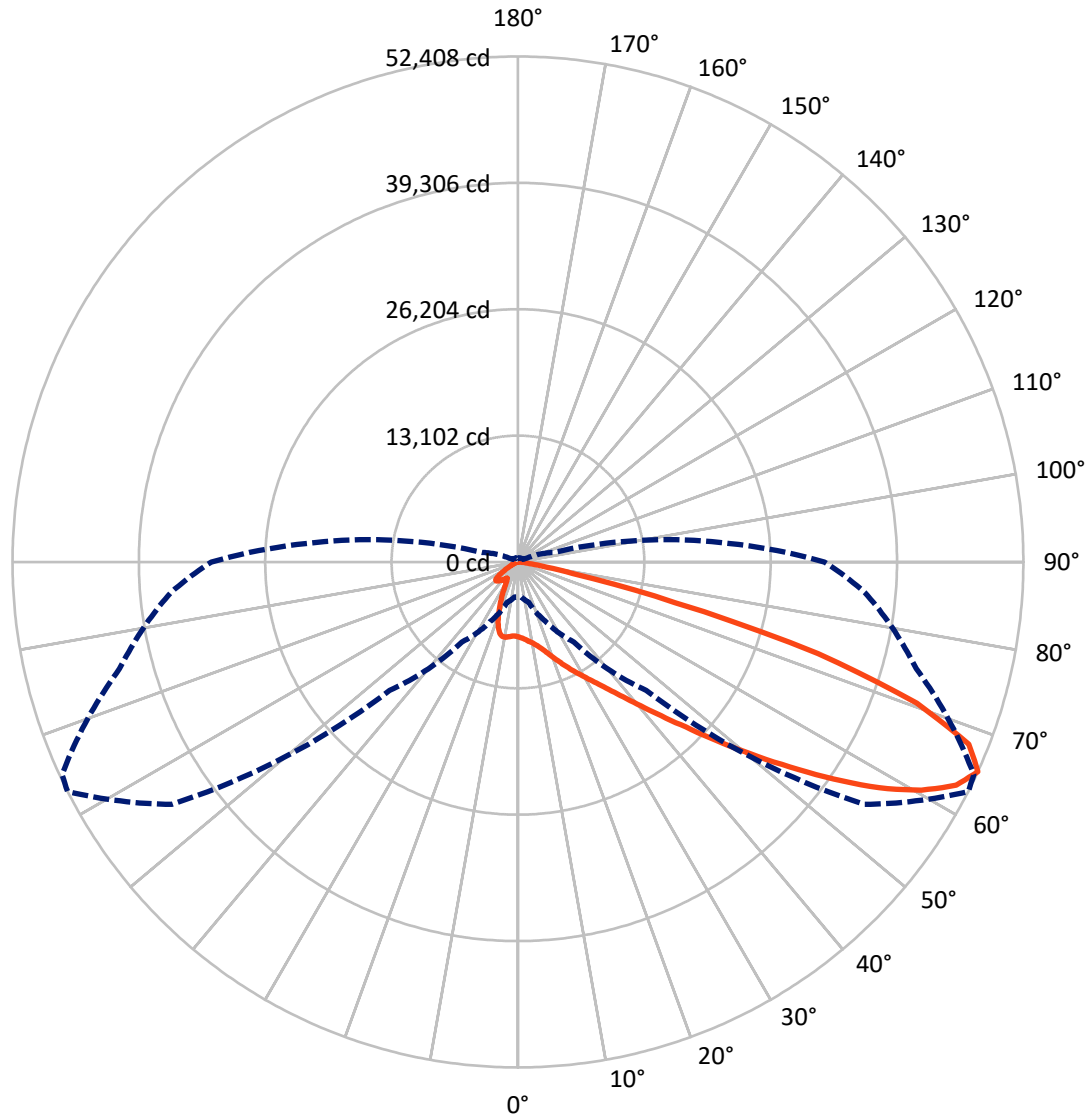
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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	9243.8	0.0	9243.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	53642.3	0.0	53642.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	62886.0	0.0	62886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	731.3	1.2
10°-20°	2029.0	3.2
20°-30°	3533.0	5.6
30°-40°	6367.8	10.1
40°-50°	12629.4	20.1
50°-60°	17203.4	27.4
60°-70°	13731.6	21.8
70°-80°	6213.9	9.9
80°-90°	446.7	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°	62886.0	100.0
0°-180°	62886.0	100.0

**Coefficient of Utilization**



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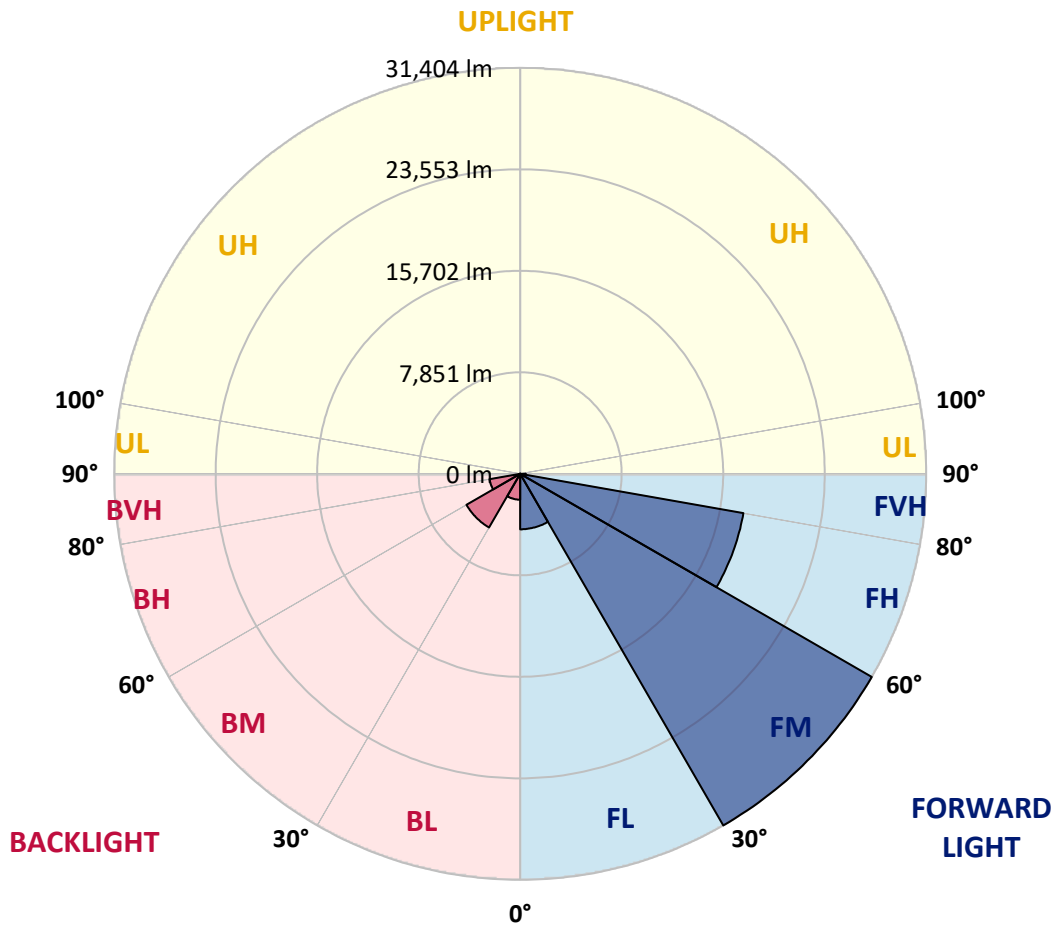
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4292.7	6.8			
FM (30°-60°)	31403.7	49.9			
FH (60°-80°)	17532.3	27.9			G5
FVH (80°-90°)	413.5	0.7			G3/500
BL (0°-30°)	2000.5	3.2	B3/2500		
BM (30°-60°)	4796.9	7.6	B3/5000		
BH (60°-80°)	2413.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	33.1	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°	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3
2.5°	7943.0	7921.4	7951.7	7938.7	7930.0	7912.7	7904.1	7895.4	7878.1	7865.2
5°	7964.7	7951.7	7982.0	8007.9	8033.9	8059.8	8072.8	8090.1	8072.8	8038.2
7.5°	7783.0	7774.3	7839.2	7917.1	8033.9	8133.4	8241.5	8302.1	8306.4	8293.5
10°	7770.0	7748.3	7813.2	7908.4	8059.8	8237.2	8427.6	8557.4	8574.7	8630.9
12.5°	7973.3	7951.7	8042.5	8146.4	8302.1	8488.1	8721.8	8903.5	8929.4	9007.3
15°	8315.1	8284.8	8388.6	8522.7	8721.8	8933.7	9180.3	9344.7	9366.4	9461.5
17.5°	8713.1	8682.8	8804.0	8946.7	9163.0	9452.9	9738.4	9920.1	9946.1	10006.7
20°	9223.6	9184.7	9279.8	9409.6	9638.9	9985.0	10326.8	10586.4	10582.0	10582.0
22.5°	9816.3	9755.7	9837.9	9941.8	10158.1	10577.7	11032.0	11339.1	11339.1	11218.0
25°	10452.3	10391.7	10482.5	10577.7	10768.1	11244.0	11776.1	12156.8	12174.1	11966.5
27.5°	11248.3	11170.4	11239.6	11352.1	11464.6	11949.1	12580.8	13022.1	13030.7	12710.6
30°	12779.8	12559.1	12342.8	12221.7	12273.6	12753.8	13428.7	13917.6	13960.9	13519.6
32.5°	15583.2	15539.9	14778.5	13783.5	13264.3	13619.1	14376.2	14964.6	14990.5	14423.8
35°	19939.8	19887.8	18663.5	16768.6	15077.0	14778.5	15527.0	16223.5	16206.2	15565.9
37.5°	25139.9	25092.3	23478.6	20943.5	18204.9	16530.7	17010.9	17742.0	17850.2	17010.9
40°	29583.0	29405.6	28384.6	25940.3	22358.1	19437.9	19122.1	19606.6	19719.1	18724.1
42.5°	32948.8	32797.4	32278.3	30751.1	27385.3	23738.2	21609.7	21795.7	21921.2	20727.1
45°	34692.3	34657.7	34865.4	34722.6	32507.6	29016.3	25165.9	24391.5	24439.1	22946.5
47.5°	34938.9	34921.6	35869.1	37210.2	36911.7	34969.2	29730.1	27627.5	27458.8	25451.4
50°	33485.3	33450.7	35267.7	37781.3	39853.6	39970.4	34913.0	31274.6	30902.5	28042.9
52.5°	28843.2	28834.6	31819.7	36003.2	40887.5	44348.5	40035.3	35280.7	34657.7	30785.7
55°	22193.7	22353.8	25775.9	30720.8	39001.3	46455.4	44634.1	39728.1	38772.0	33545.9
57.5°	15721.6	15955.3	19338.4	23742.5	33152.2	45209.5	47744.7	44184.2	43154.5	36297.4
60°	8444.9	8652.5	12040.0	17296.4	24664.0	40563.1	49384.3	48051.8	47078.4	38910.4
62.5°	5031.4	5100.7	6502.4	11166.1	16682.1	30989.0	48687.8	50998.0	50197.7	41103.9
65°	3612.4	3625.4	4330.6	6818.2	10127.8	18827.9	43803.4	52408.4	52161.8	42756.5
67.5°	3041.4	3032.7	3326.9	4529.6	6900.4	9431.3	33571.8	50414.0	51460.9	43803.4
70°	2608.7	2621.7	2967.8	3318.2	5187.2	5338.6	16690.7	43894.3	46126.6	44080.3
72.5°	1942.5	1985.8	2305.9	3024.1	3915.3	3673.0	5762.6	32546.5	36582.9	41532.2
75°	1371.4	1393.1	1622.3	2543.8	2920.2	2673.6	2941.9	16824.8	21999.1	31841.3
77.5°	1055.6	1094.5	1228.7	1778.1	2877.0	1877.6	1799.7	5823.2	8946.7	19234.6
80°	571.1	640.3	886.9	1284.9	2020.4	1328.2	891.2	2318.9	3032.7	8994.3
82.5°	294.2	328.8	618.7	925.8	1150.8	1159.4	441.3	964.8	1250.3	2777.5
85°	116.8	142.8	415.3	510.5	592.7	571.1	199.0	389.4	449.9	770.1
87.5°	26.0	43.3	151.4	116.8	112.5	121.1	47.6	90.9	86.5	90.9
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°
7761.3	0°	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3	7761.3
7813.2	2.5°	7808.9	7791.6	7744.0	7692.1	7631.5	7596.9	7575.3	7571.0	7540.7	7519.0
7986.3	5°	7938.7	7921.4	7830.5	7722.4	7605.6	7514.7	7428.2	7350.3	7237.8	7216.2
8237.2	7.5°	8198.3	8150.7	8003.6	7856.5	7635.9	7372.0	7051.8	6684.1	6355.3	6255.8
8570.3	10°	8518.4	8453.5	8267.5	8007.9	7519.0	6800.9	6026.5	5308.3	4737.3	4577.2
8964.0	12.5°	8881.8	8825.6	8579.0	8098.8	7030.2	5728.0	4542.6	3651.4	3097.6	2959.2
9383.7	15°	9314.4	9232.3	8890.5	7960.3	6156.3	4352.2	3119.2	2591.4	2392.4	2366.5
9863.9	17.5°	9773.0	9638.9	9167.4	7462.8	4979.5	3093.3	2409.7	2258.3	2171.8	2145.8
10348.4	20°	10192.7	10019.6	9331.8	6710.0	3720.6	2409.7	2158.8	2059.3	1981.4	1951.1
10833.0	22.5°	10612.3	10365.7	9331.8	5684.7	2790.4	2137.2	1981.4	1890.6	1799.7	1760.8
11352.1	25°	11049.3	10720.5	9167.4	4542.6	2245.3	1959.8	1812.7	1713.2	1635.3	1587.7
11845.3	27.5°	11473.3	11019.0	8791.0	3461.0	1998.7	1804.1	1657.0	1561.8	1488.2	1453.6
12381.8	30°	11875.6	11313.2	8263.2	2626.0	1838.7	1652.6	1514.2	1432.0	1358.4	1323.8
13078.3	32.5°	12420.7	11685.2	7700.8	2154.5	1700.2	1509.9	1384.4	1306.5	1241.6	1215.7
13982.5	35°	13177.8	12234.7	7216.2	2115.5	1583.4	1393.1	1267.6	1194.0	1129.2	1107.5
15150.6	37.5°	14250.7	13121.6	6961.0	2375.1	1488.2	1289.2	1172.4	1094.5	1034.0	1016.7
16634.5	40°	15574.6	14324.3	7099.4	2634.7	1423.3	1198.4	1085.9	1008.0	956.1	934.5
18339.0	42.5°	17145.0	15808.2	7865.2	2833.7	1380.1	1120.5	1003.7	917.2	882.6	873.9
20272.9	45°	18949.0	17439.2	9037.6	3045.7	1310.9	1047.0	921.5	856.6	830.6	826.3
22375.4	47.5°	20999.7	19230.3	10396.0	3309.6	1241.6	977.7	856.6	813.3	791.7	783.1
24568.9	50°	23033.0	21034.3	11793.4	3456.7	1185.4	912.8	804.7	770.1	752.8	748.4
26887.7	52.5°	25161.6	22890.3	12922.6	3318.2	1137.8	860.9	761.4	735.5	718.2	713.8
29024.9	55°	27190.6	24391.5	13117.2	2816.4	1042.6	809.0	713.8	700.9	679.2	679.2
31192.4	57.5°	28938.4	25144.3	11741.5	2068.0	947.5	731.1	666.2	653.3	636.0	631.6
33147.8	60°	30543.4	24927.9	9063.5	1393.1	843.6	653.3	605.7	597.0	579.7	558.1
34848.1	62.5°	31447.6	23976.2	6199.5	908.5	739.8	571.1	536.5	532.1	493.2	449.9
36107.0	65°	31789.4	22020.7	3867.7	661.9	618.7	488.9	462.9	454.3	398.0	350.4
36820.8	67.5°	31490.9	18802.0	1951.1	523.5	488.9	406.7	380.7	380.7	341.8	298.5
36777.6	70°	30296.8	14095.0	822.0	419.6	376.4	311.5	311.5	328.8	289.9	242.3
34869.7	72.5°	27705.4	9483.2	437.0	320.1	281.2	220.6	255.2	268.2	229.3	181.7
28540.4	75°	22025.0	5784.2	302.8	237.9	177.4	155.7	194.7	203.3	155.7	121.1
19567.7	77.5°	15064.1	3322.6	203.3	151.4	112.5	90.9	134.1	125.5	82.2	56.2
7545.0	80°	6614.9	1384.4	116.8	69.2	43.3	34.6	47.6	34.6	26.0	17.3
1034.0	82.5°	774.4	324.5	43.3	26.0	17.3	8.7	4.3	0.0	0.0	0.0
315.8	85°	160.1	38.9	21.6	8.7	4.3	0.0	0.0	0.0	0.0	0.0
56.2	87.5°	30.3	8.7	4.3	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>
7761.3
7540.7
7207.6
6208.2
4516.6
2920.2
2340.5
2132.8
1933.8
1739.2
1570.4
1453.6
1328.2
1215.7
1107.5
1012.3
930.1
873.9
822.0
783.1
748.4
713.8
674.9
627.3
553.8
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