

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: P955263

Luminaire Tested: **GALN-SB8B-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

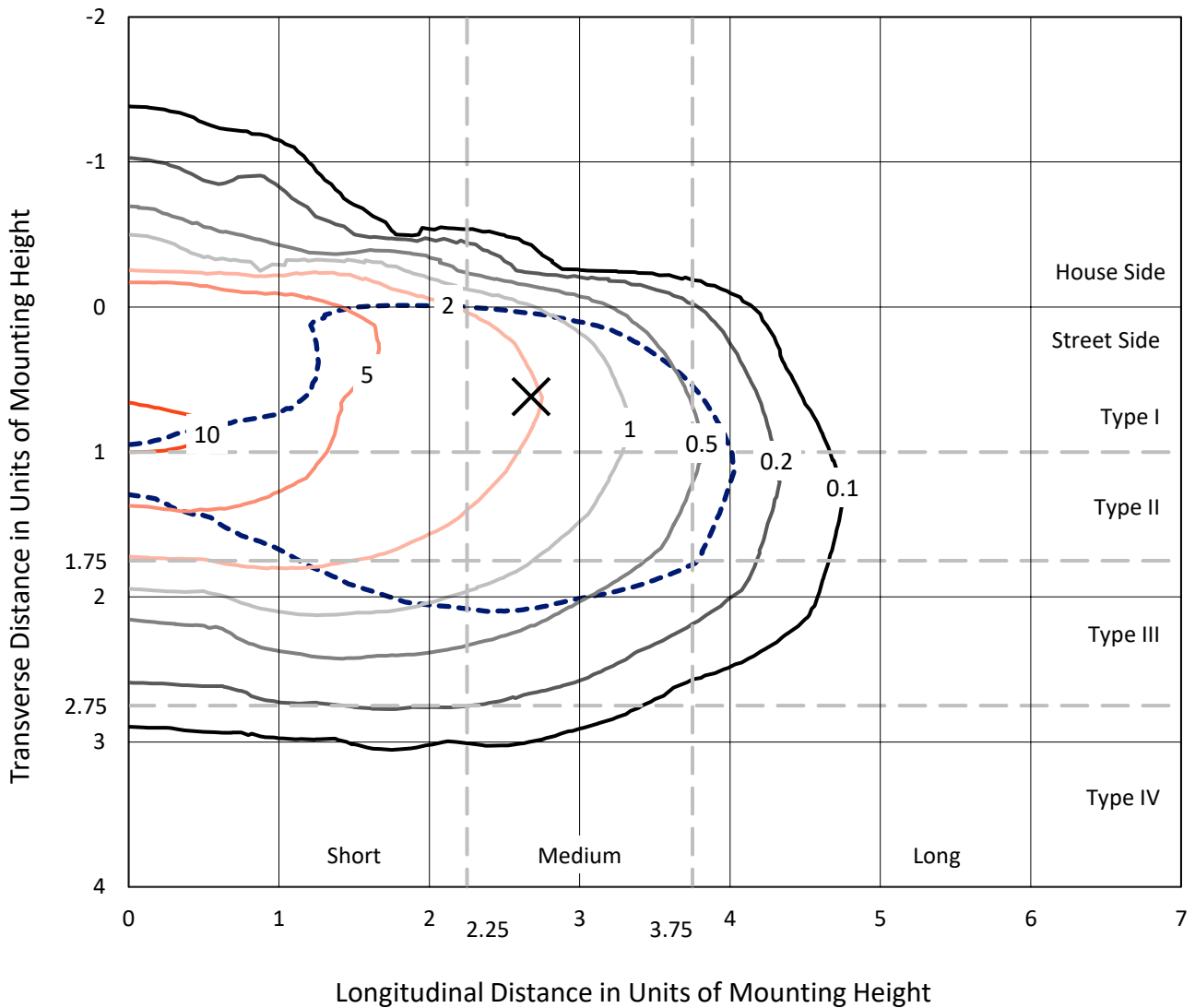
Lumens per Lamp: N/A  
Luminaire Lumens: 37908 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P955263  
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### Iso-Footcandle Lines of Horizontal Illumination

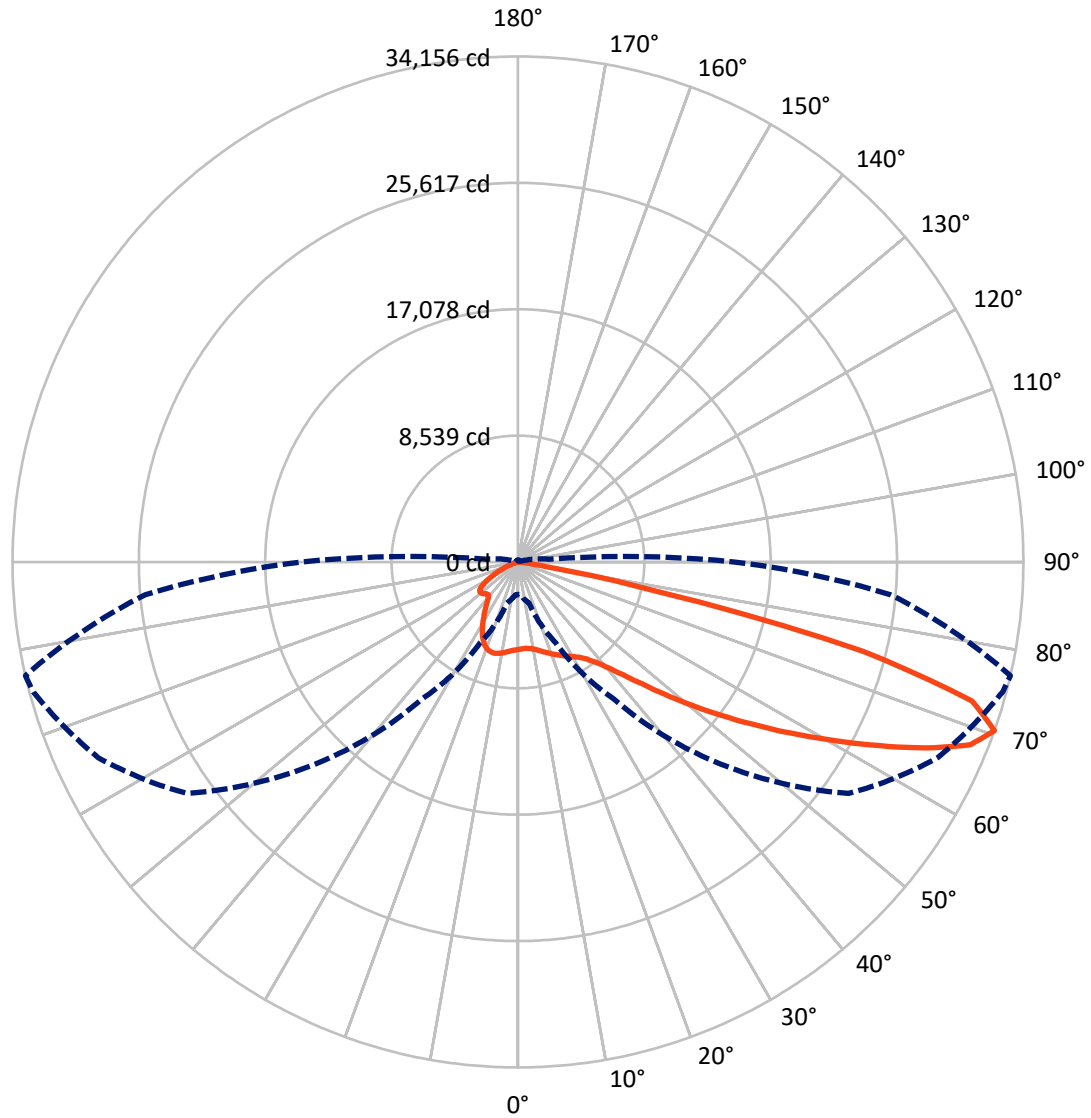
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P955263  
CATALOG NUMBER: GALN-SB8B-735-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P955263  
 CATALOG NUMBER: GALN-SB8B-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3996.0	0.0	3996.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	33912.0	0.0	33912.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	37908.0	0.0	37908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.6	1.3
10°-20°	1209.7	3.2
20°-30°	1871.1	4.9
30°-40°	3395.3	9.0
40°-50°	6409.0	16.9
50°-60°	9260.4	24.4
60°-70°	9857.5	26.0
70°-80°	5223.8	13.8
80°-90°	171.5	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°	37908.0	100.0
0°-180°	37908.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955263

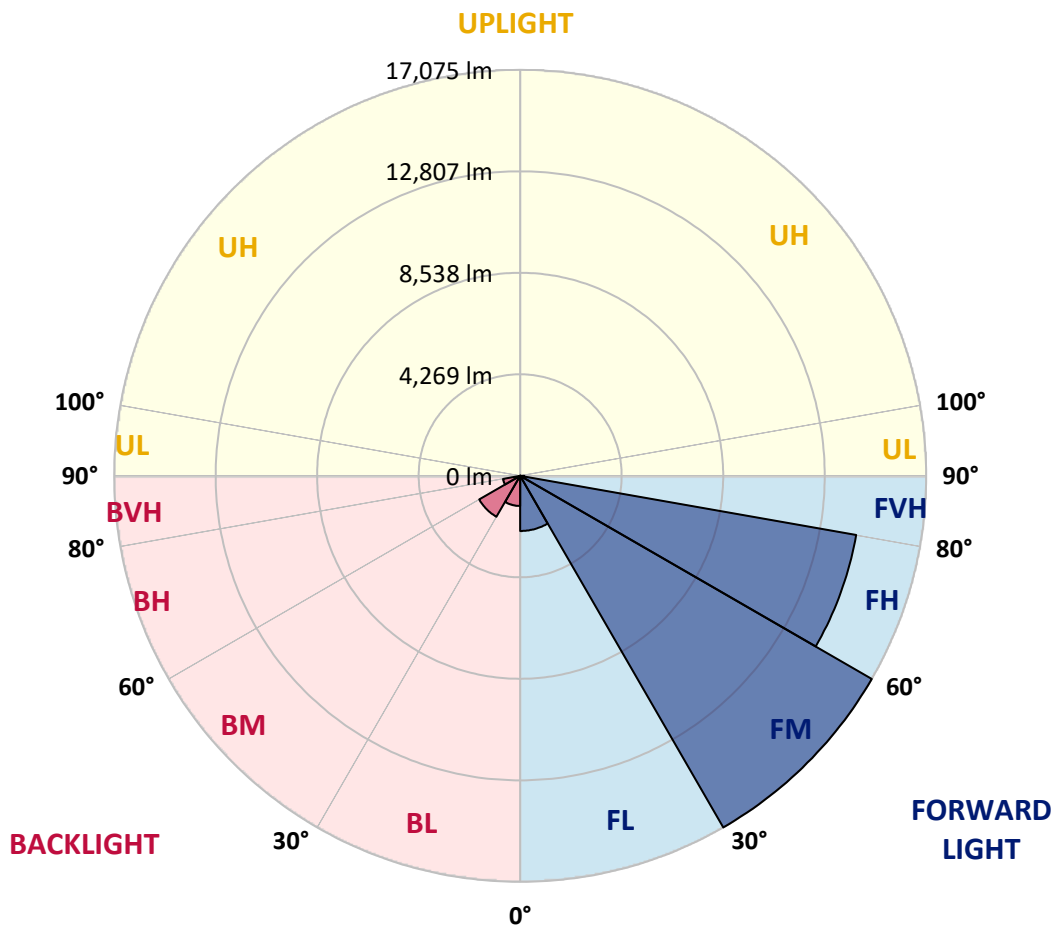
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.9	6.1			
FM (30°-60°)	17075.5	45.0			
FH (60°-80°)	14348.7	37.9			G5
FVH (80°-90°)	166.9	0.4			G2/225
BL (0°-30°)	1269.6	3.3	B3/2500		
BM (30°-60°)	1989.2	5.2	B2/2500		
BH (60°-80°)	732.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
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 Medium



REPORT NUMBER: P955263  
 CATALOG NUMBER: GALN-SB8B-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
2.5°	5551.5	5601.8	5594.6	5628.1	5640.1	5687.9	5735.8	5800.4	5872.3	5869.9
5°	5237.9	5288.2	5300.1	5345.6	5403.1	5477.3	5575.4	5704.7	5838.8	5860.3
7.5°	4866.8	4919.5	4950.6	5041.6	5146.9	5300.1	5460.5	5649.6	5872.3	5903.4
10°	4495.8	4543.6	4584.3	4713.6	4881.2	5108.6	5369.5	5642.5	5941.7	5987.2
12.5°	4266.0	4311.4	4356.9	4469.4	4677.7	4955.4	5309.7	5676.0	6056.6	6121.2
15°	4184.6	4225.3	4261.2	4361.7	4555.6	4871.6	5297.7	5745.4	6202.6	6288.8
17.5°	4196.5	4218.1	4242.0	4318.6	4507.7	4833.3	5319.3	5865.1	6375.0	6451.6
20°	4266.0	4277.9	4280.3	4333.0	4500.6	4828.5	5362.4	5980.0	6537.8	6640.7
22.5°	4354.5	4359.3	4354.5	4390.4	4546.0	4864.4	5419.8	6118.8	6719.7	6815.5
25°	4768.7	4677.7	4562.8	4493.4	4622.6	4933.9	5506.0	6305.6	6918.4	7011.8
27.5°	6054.2	5793.3	5381.5	4919.5	4780.6	5034.4	5625.7	6494.7	7119.5	7203.3
30°	8141.7	7799.4	7100.3	6059.0	5288.2	5245.1	5781.3	6683.8	7332.6	7423.5
32.5°	10234.0	10150.2	9343.4	7902.3	6430.0	5714.3	6039.8	6940.0	7615.0	7686.9
35°	12350.2	12180.2	11519.5	10095.1	8189.6	6669.4	6470.7	7275.1	7986.1	8067.5
37.5°	13970.9	13867.9	13458.6	12285.6	10277.1	8144.1	7208.1	7794.6	8524.7	8615.7
40°	15402.4	15354.6	15215.7	14442.5	12611.1	10073.6	8354.8	8598.9	9271.6	9379.3
42.5°	16527.6	16640.1	16719.1	16503.6	15017.0	12276.0	9896.4	9728.9	10313.0	10423.1
45°	17679.0	17717.3	18035.7	18346.9	17406.1	14578.9	11634.4	11052.7	11608.1	11744.5
47.5°	18418.8	18572.0	19132.1	19680.4	19414.6	16862.7	13501.7	12615.9	13109.1	13365.2
50°	18473.8	18763.5	19534.3	20489.5	20877.3	19036.4	15531.7	14397.0	14921.3	15203.7
52.5°	17557.0	18007.0	19201.6	20599.6	21667.3	20877.3	17631.2	16178.1	16850.7	17219.4
55°	13461.0	14049.9	17949.6	20001.1	21698.4	22273.0	19675.6	18033.3	19000.5	19417.0
57.5°	11727.8	12024.6	14112.1	18962.2	21121.5	22835.5	21523.7	19800.0	21339.3	21856.4
60°	9757.6	10147.8	11835.5	17262.5	20338.7	22890.6	23156.3	22079.1	23874.5	24456.2
62.5°	6631.1	7054.9	8733.0	14341.9	19268.6	22864.3	24494.5	24425.1	26692.1	27316.9
65°	4108.0	4373.7	5479.7	11711.0	17772.4	22893.0	25894.9	27273.8	29665.4	30299.7
67.5°	3246.1	3368.2	3945.2	8991.5	15194.2	22246.6	27293.0	29952.6	32463.8	32966.6
70°	2180.9	2255.1	2870.3	6027.9	11304.1	19263.8	27266.7	31298.0	33905.0	34156.3
72.5°	1149.1	1206.5	1678.1	2791.3	6827.4	13693.2	22984.0	29689.3	32471.0	32092.8
75°	574.5	670.3	1129.9	1417.2	2915.8	7636.6	14272.5	23407.7	25557.4	24092.3
77.5°	435.7	526.7	933.6	933.6	1015.0	2571.1	6044.6	12766.7	11775.7	9805.5
80°	277.7	359.1	816.3	706.2	423.7	653.5	1575.2	3576.5	2501.6	1903.2
82.5°	162.8	234.6	679.9	466.8	237.0	241.8	445.3	761.3	648.8	505.1
85°	64.6	153.2	466.8	184.3	93.4	59.8	134.1	162.8	134.1	100.5
87.5°	0.0	35.9	81.4	0.0	7.2	4.8	9.6	12.0	12.0	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955263  
 CATALOG NUMBER: GALN-SB8B-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5913.0	0°	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0	5913.0
5917.8	2.5°	5939.3	5944.1	5958.4	5960.8	5927.3	5884.2	5867.5	5860.3	5831.6	5829.2
5956.1	5°	6011.1	6032.7	6011.1	5948.9	5800.4	5592.2	5434.2	5304.9	5187.6	5151.7
6087.7	7.5°	6154.7	6176.3	6111.7	5867.5	5494.0	5079.9	4706.4	4443.1	4206.1	4117.5
6248.1	10°	6360.6	6389.4	6185.9	5692.7	5032.0	4366.5	3734.5	3289.2	2942.1	2800.9
6466.0	12.5°	6619.2	6631.1	6226.6	5427.0	4431.1	3480.7	2585.4	2109.0	1800.2	1685.3
6729.3	15°	6904.0	6887.3	6231.4	5065.5	3612.4	2460.9	1687.7	1386.1	1261.6	1223.3
6992.6	17.5°	7203.3	7133.9	6135.6	4543.6	2714.7	1682.9	1252.0	1180.2	1158.7	1149.1
7253.6	20°	7497.7	7342.1	5960.8	3861.4	1948.6	1256.8	1137.1	1115.6	1103.6	1098.8
7516.9	22.5°	7765.9	7500.1	5661.6	3069.0	1414.8	1110.8	1074.9	1055.7	1034.2	1024.6
7773.0	25°	8026.8	7591.1	5240.3	2329.3	1132.3	1039.0	1010.2	974.3	945.6	933.6
8048.3	27.5°	8280.5	7648.5	4713.6	1723.6	1010.2	971.9	919.3	869.0	847.4	842.7
8342.8	30°	8551.1	7667.7	4115.1	1285.5	936.0	888.1	811.5	754.1	742.1	744.5
8740.2	32.5°	8881.4	7696.4	3511.9	1053.3	873.8	787.6	696.6	636.8	627.2	636.8
9319.5	35°	9276.4	7753.9	2930.1	969.5	818.7	684.7	586.5	536.2	526.7	533.8
10061.6	37.5°	9812.6	7847.2	2386.7	952.8	773.2	598.5	493.1	452.4	452.4	454.8
10971.3	40°	10526.0	8096.2	1900.8	940.8	749.3	533.8	416.5	399.8	407.0	411.8
12130.0	42.5°	11395.0	8625.3	1572.8	926.4	723.0	505.1	378.2	371.1	383.0	387.8
13518.4	45°	12369.3	9295.6	1457.9	902.5	699.0	524.3	361.5	351.9	366.3	368.7
15074.5	47.5°	13377.2	9951.5	1443.5	876.2	675.1	553.0	356.7	335.1	351.9	354.3
16735.8	50°	14397.0	10380.0	1457.9	835.5	636.8	553.0	359.1	318.4	332.8	339.9
18459.5	52.5°	15424.0	10576.3	1448.3	746.9	569.8	519.5	359.1	304.0	318.4	323.2
20321.9	55°	16419.8	10538.0	1302.3	615.2	483.6	459.6	349.5	292.1	301.6	304.0
22081.4	57.5°	17207.4	10004.2	1031.8	478.8	392.6	383.0	318.4	277.7	284.9	282.5
23694.9	60°	17619.2	8831.1	737.3	368.7	308.8	301.6	280.1	258.5	263.3	251.4
25061.9	62.5°	17624.0	7279.9	493.1	292.1	246.6	239.4	239.4	232.2	227.4	203.5
26120.0	65°	17248.1	5558.7	328.0	232.2	198.7	186.7	201.1	198.7	181.9	148.4
26443.2	67.5°	16395.9	3643.5	249.0	181.9	153.2	146.0	160.4	167.6	155.6	124.5
25265.4	70°	14643.6	2121.0	205.9	141.2	114.9	107.7	129.3	143.6	129.3	100.5
21595.5	72.5°	12163.5	1144.3	167.6	105.3	79.0	71.8	102.9	117.3	102.9	74.2
13856.0	75°	7892.7	612.8	129.3	69.4	40.7	45.5	76.6	86.2	71.8	47.9
4067.3	77.5°	2650.1	270.5	81.4	33.5	19.2	19.2	45.5	52.7	33.5	16.8
739.7	80°	591.3	112.5	33.5	14.4	7.2	7.2	9.6	9.6	4.8	0.0
227.4	82.5°	193.9	45.5	14.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5	85°	74.2	16.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.2	87.5°	28.7	2.4	0.0	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>
5913.0
5834.0
5130.2
4081.6
2741.0
1649.4
1223.3
1146.7
1094.0
1022.2
928.8
837.9
744.5
634.4
531.4
452.4
411.8
387.8
371.1
356.7
342.3
323.2
304.0
282.5
249.0
196.3
143.6
122.1
95.8
71.8
43.1
14.4
0.0
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