

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: P957132

Luminaire Tested: **GALN-SB9C-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957132  
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-SB9C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

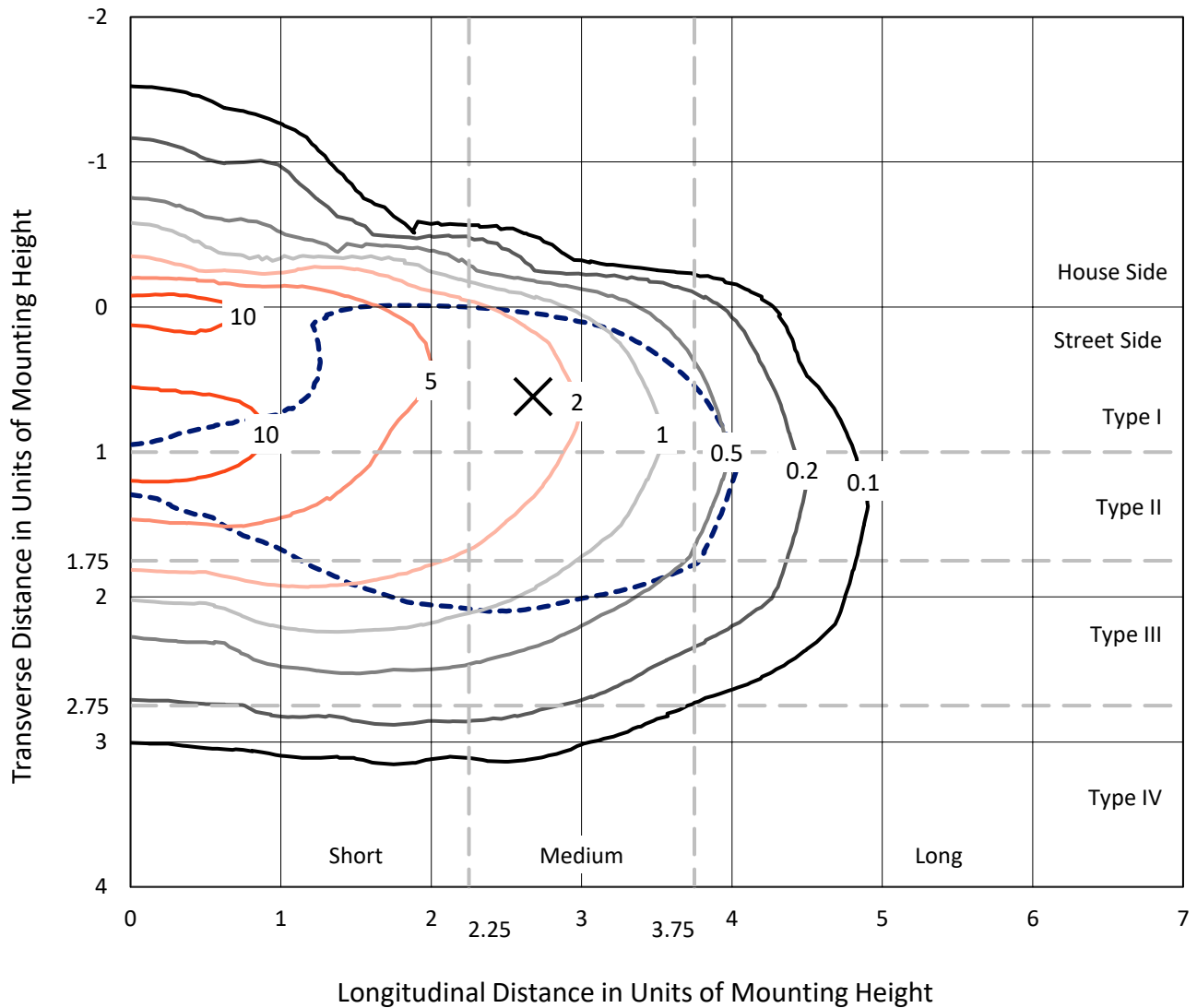
Lumens per Lamp: N/A  
Luminaire Lumens: 49383 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

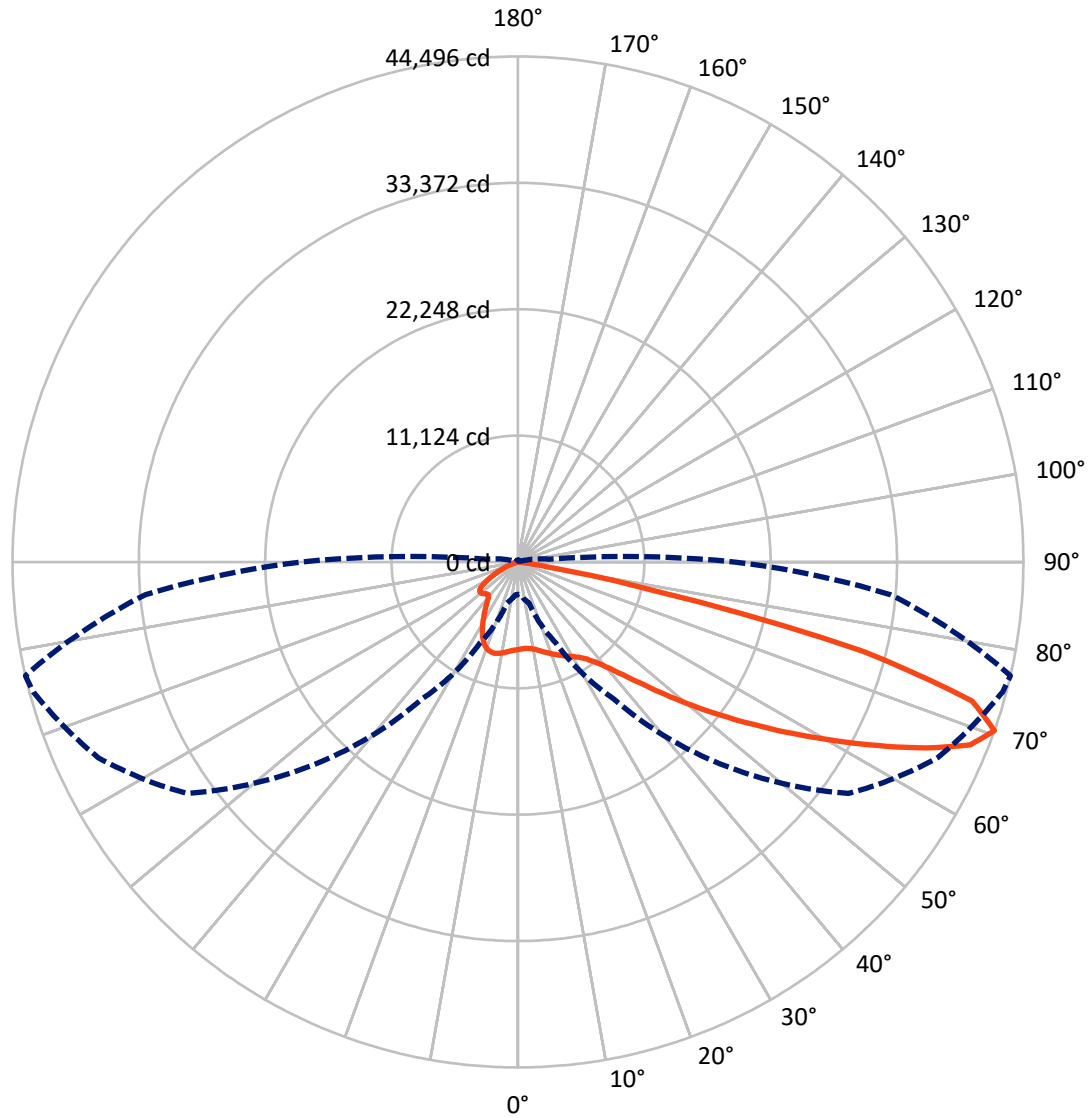
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5205.7	0.0	5205.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	44177.3	0.0	44177.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	49383.0	0.0	49383.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.9	1.3
10°-20°	1575.9	3.2
20°-30°	2437.5	4.9
30°-40°	4423.0	9.0
40°-50°	8349.0	16.9
50°-60°	12063.7	24.4
60°-70°	12841.4	26.0
70°-80°	6805.1	13.8
80°-90°	223.4	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°	49383.0	100.0
0°-180°	49383.0	100.0



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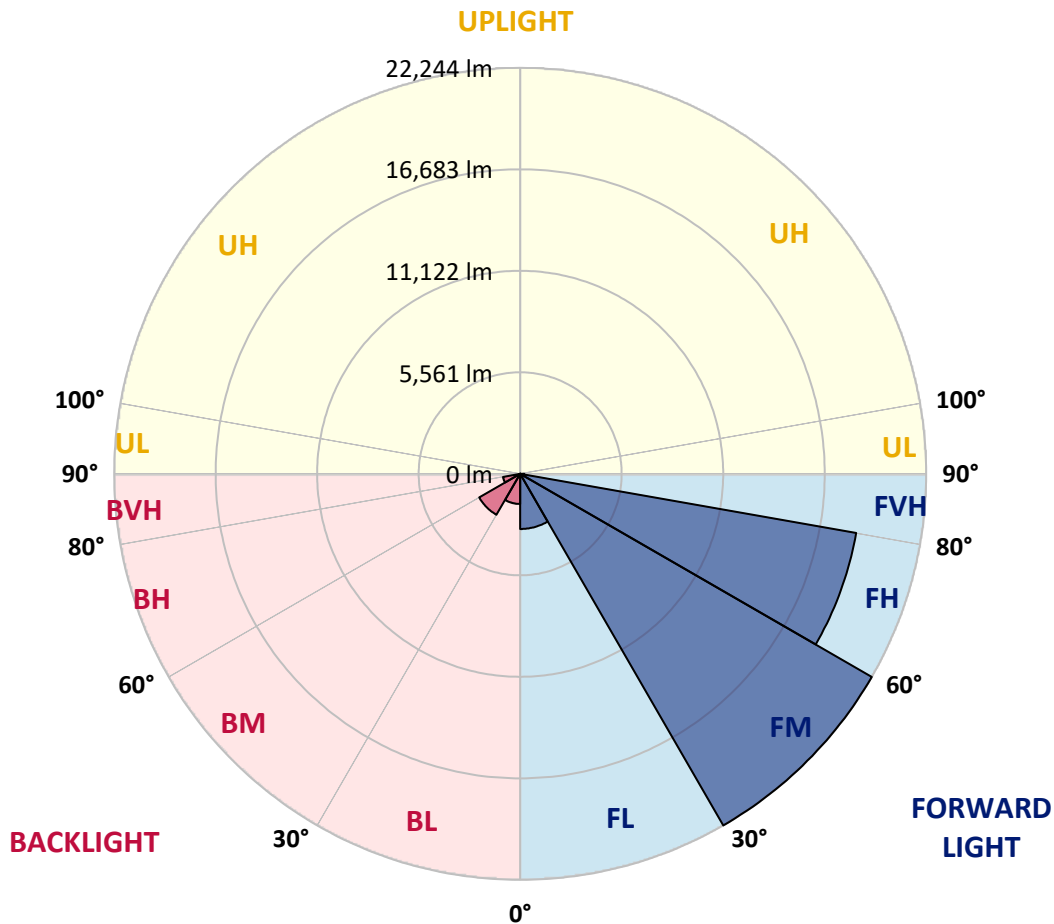
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.4	6.1			
FM (30°-60°)	22244.3	45.0			
FH (60°-80°)	18692.2	37.9			G5
FVH (80°-90°)	217.4	0.4			G2/225
BL (0°-30°)	1653.9	3.3	B3/2500		
BM (30°-60°)	2591.4	5.2	B3/5000		
BH (60°-80°)	954.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.0	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9
2.5°	7232.0	7297.4	7288.1	7331.7	7347.3	7409.7	7472.1	7556.3	7649.8	7646.7
5°	6823.4	6888.9	6904.5	6963.8	7038.6	7135.3	7263.1	7431.5	7606.2	7634.2
7.5°	6340.0	6408.7	6449.2	6567.7	6704.9	6904.5	7113.4	7359.8	7649.8	7690.4
10°	5856.7	5919.0	5972.1	6140.5	6358.8	6655.0	6994.9	7350.5	7740.3	7799.5
12.5°	5557.3	5616.5	5675.8	5822.4	6093.7	6455.4	6917.0	7394.1	7890.0	7974.2
15°	5451.3	5504.3	5551.0	5682.0	5934.6	6346.3	6901.4	7484.6	8080.2	8192.5
17.5°	5466.8	5494.9	5526.1	5625.9	5872.3	6296.4	6929.5	7640.5	8304.7	8404.5
20°	5557.3	5572.9	5576.0	5644.6	5862.9	6290.1	6985.6	7790.2	8516.8	8650.9
22.5°	5672.7	5678.9	5672.7	5719.4	5922.2	6336.9	7060.4	7971.1	8753.8	8878.6
25°	6212.2	6093.7	5944.0	5853.5	6021.9	6427.4	7172.7	8214.3	9012.7	9134.3
27.5°	7886.9	7546.9	7010.5	6408.7	6227.8	6558.3	7328.6	8460.7	9274.6	9383.8
30°	10606.2	10160.3	9249.7	7893.1	6888.9	6832.8	7531.3	8707.0	9552.2	9670.7
32.5°	13331.9	13222.7	12171.8	10294.4	8376.5	7444.0	7868.1	9040.7	9920.2	10013.7
35°	16088.7	15867.3	15006.5	13151.0	10668.6	8688.3	8429.5	9477.3	10403.5	10509.6
37.5°	18199.9	18065.8	17532.6	16004.5	13388.0	10609.4	9390.0	10154.0	11105.2	11223.7
40°	20064.8	20002.5	19821.6	18814.3	16428.6	13122.9	10883.8	11201.9	12078.2	12218.5
42.5°	21530.6	21677.1	21780.1	21499.4	19562.8	15992.0	12892.1	12673.8	13434.8	13578.2
45°	23030.6	23080.5	23495.3	23900.7	22675.1	18992.1	15156.2	14398.4	15121.9	15299.7
47.5°	23994.2	24193.8	24923.6	25637.7	25291.6	21967.2	17588.7	16434.8	17077.3	17410.9
50°	24066.0	24443.3	25447.5	26691.8	27197.0	24798.8	20233.3	18755.1	19438.0	19806.0
52.5°	22871.6	23457.8	25014.0	26835.3	28226.1	27197.0	22968.2	21075.3	21951.6	22431.8
55°	17535.7	18302.9	23383.0	26055.6	28266.7	29015.1	25631.5	23492.2	24752.1	25294.7
57.5°	15277.9	15664.6	18383.9	24702.2	27515.1	29748.0	28039.0	25793.7	27798.9	28472.5
60°	12711.3	13219.6	15418.2	22488.0	26495.3	29819.7	30165.9	28762.5	31101.5	31859.3
62.5°	8638.4	9190.4	11376.5	18683.3	25101.3	29785.4	31909.2	31818.7	34772.0	35585.9
65°	5351.5	5697.6	7138.4	15256.0	23152.2	29822.8	33733.5	35529.8	38645.3	39471.7
67.5°	4228.8	4387.8	5139.4	11713.3	19793.5	28980.8	35554.8	39019.5	42290.9	42945.8
70°	2841.0	2937.7	3739.2	7852.5	14725.9	25095.1	35520.5	40772.1	44168.2	44495.7
72.5°	1496.9	1571.8	2186.1	3636.2	8894.1	17838.2	29941.3	38676.4	42300.2	41807.5
75°	748.5	873.2	1472.0	1846.2	3798.4	9948.2	18592.9	30493.3	33293.8	31385.2
77.5°	567.6	686.1	1216.2	1216.2	1322.3	3349.3	7874.4	16631.3	15340.2	12773.6
80°	361.8	467.8	1063.4	920.0	552.0	851.4	2052.0	4659.1	3258.9	2479.3
82.5°	212.1	305.6	885.7	608.1	308.7	315.0	580.1	991.7	845.1	658.0
85°	84.2	199.6	608.1	240.1	121.6	78.0	174.6	212.1	174.6	131.0
87.5°	0.0	46.8	106.0	0.0	9.4	6.2	12.5	15.6	15.6	12.5
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°
7702.9	0°	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9	7702.9
7709.1	2.5°	7737.2	7743.4	7762.1	7765.2	7721.6	7665.4	7643.6	7634.2	7596.8	7593.7
7759.0	5°	7830.7	7858.8	7830.7	7749.6	7556.3	7285.0	7079.1	6910.7	6757.9	6711.2
7930.5	7.5°	8017.8	8045.9	7961.7	7643.6	7157.1	6617.6	6131.1	5788.1	5479.3	5363.9
8139.5	10°	8286.0	8323.5	8058.4	7415.9	6555.2	5688.3	4865.0	4284.9	3832.7	3648.7
8423.2	12.5°	8622.8	8638.4	8111.4	7069.8	5772.5	4534.4	3368.1	2747.5	2345.2	2195.5
8766.3	15°	8993.9	8972.1	8117.6	6598.9	4705.9	3205.9	2198.6	1805.6	1643.5	1593.6
9109.3	17.5°	9383.8	9293.3	7992.9	5919.0	3536.5	2192.4	1631.0	1537.5	1509.4	1496.9
9449.3	20°	9767.3	9564.6	7765.2	5030.2	2538.5	1637.2	1481.3	1453.3	1437.7	1431.4
9792.3	22.5°	10116.6	9770.5	7375.4	3998.0	1843.1	1447.0	1400.2	1375.3	1347.2	1334.7
10126.0	25°	10456.5	9889.0	6826.5	3034.4	1475.1	1353.5	1316.0	1269.3	1231.8	1216.2
10484.6	27.5°	10787.1	9963.8	6140.5	2245.4	1316.0	1266.1	1197.5	1132.0	1104.0	1097.7
10868.2	30°	11139.5	9988.8	5360.8	1674.7	1219.4	1157.0	1057.2	982.3	966.8	969.9
11385.9	32.5°	11569.9	10026.2	4574.9	1372.2	1138.3	1026.0	907.5	829.5	817.1	829.5
12140.6	35°	12084.4	10101.0	3817.1	1263.0	1066.5	891.9	764.0	698.6	686.1	695.4
13107.3	37.5°	12783.0	10222.7	3109.2	1241.2	1007.3	779.6	642.4	589.4	589.4	592.5
14292.4	40°	13712.3	10547.0	2476.1	1225.6	976.1	695.4	542.6	520.8	530.2	536.4
15801.8	42.5°	14844.4	11236.2	2048.9	1206.9	941.8	658.0	492.7	483.4	499.0	505.2
17610.5	45°	16113.6	12109.4	1899.2	1175.7	910.6	683.0	470.9	458.4	477.1	480.3
19637.6	47.5°	17426.5	12963.9	1880.5	1141.4	879.4	720.4	464.7	436.6	458.4	461.5
21801.9	50°	18755.1	13522.1	1899.2	1088.4	829.5	720.4	467.8	414.8	433.5	442.8
24047.3	52.5°	20092.9	13777.8	1886.7	973.0	742.2	676.7	467.8	396.1	414.8	421.0
26473.5	55°	21390.2	13727.9	1696.5	801.5	630.0	598.8	455.3	380.5	392.9	396.1
28765.6	57.5°	22416.2	13032.5	1344.1	623.7	511.4	499.0	414.8	361.8	371.1	368.0
30867.6	60°	22952.6	11504.4	960.5	480.3	402.3	392.9	364.9	336.8	343.0	327.4
32648.3	62.5°	22958.9	9483.6	642.4	380.5	321.2	311.9	311.9	302.5	296.3	265.1
34026.7	65°	22469.3	7241.3	427.2	302.5	258.8	243.2	262.0	258.8	237.0	193.4
34447.7	67.5°	21359.1	4746.5	324.3	237.0	199.6	190.2	208.9	218.3	202.7	162.2
32913.3	70°	19076.3	2763.0	268.2	184.0	149.7	140.3	168.4	187.1	168.4	131.0
28132.6	72.5°	15845.4	1490.7	218.3	137.2	102.9	93.6	134.1	152.8	134.1	96.7
18050.3	75°	10281.9	798.4	168.4	90.4	53.0	59.3	99.8	112.3	93.6	62.4
5298.4	77.5°	3452.3	352.4	106.0	43.7	24.9	24.9	59.3	68.6	43.7	21.8
963.6	80°	770.3	146.6	43.7	18.7	9.4	9.4	12.5	12.5	6.2	0.0
296.3	82.5°	252.6	59.3	18.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0
74.8	85°	96.7	21.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.9	87.5°	37.4	3.1	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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180°
7702.9
7599.9
6683.1
5317.2
3570.8
2148.7
1593.6
1493.8
1425.2
1331.6
1210.0
1091.5
969.9
826.4
692.3
589.4
536.4
505.2
483.4
464.7
446.0
421.0
396.1
368.0
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