

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: P956248

Luminaire Tested: **GALN-SB8D-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956248  
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-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

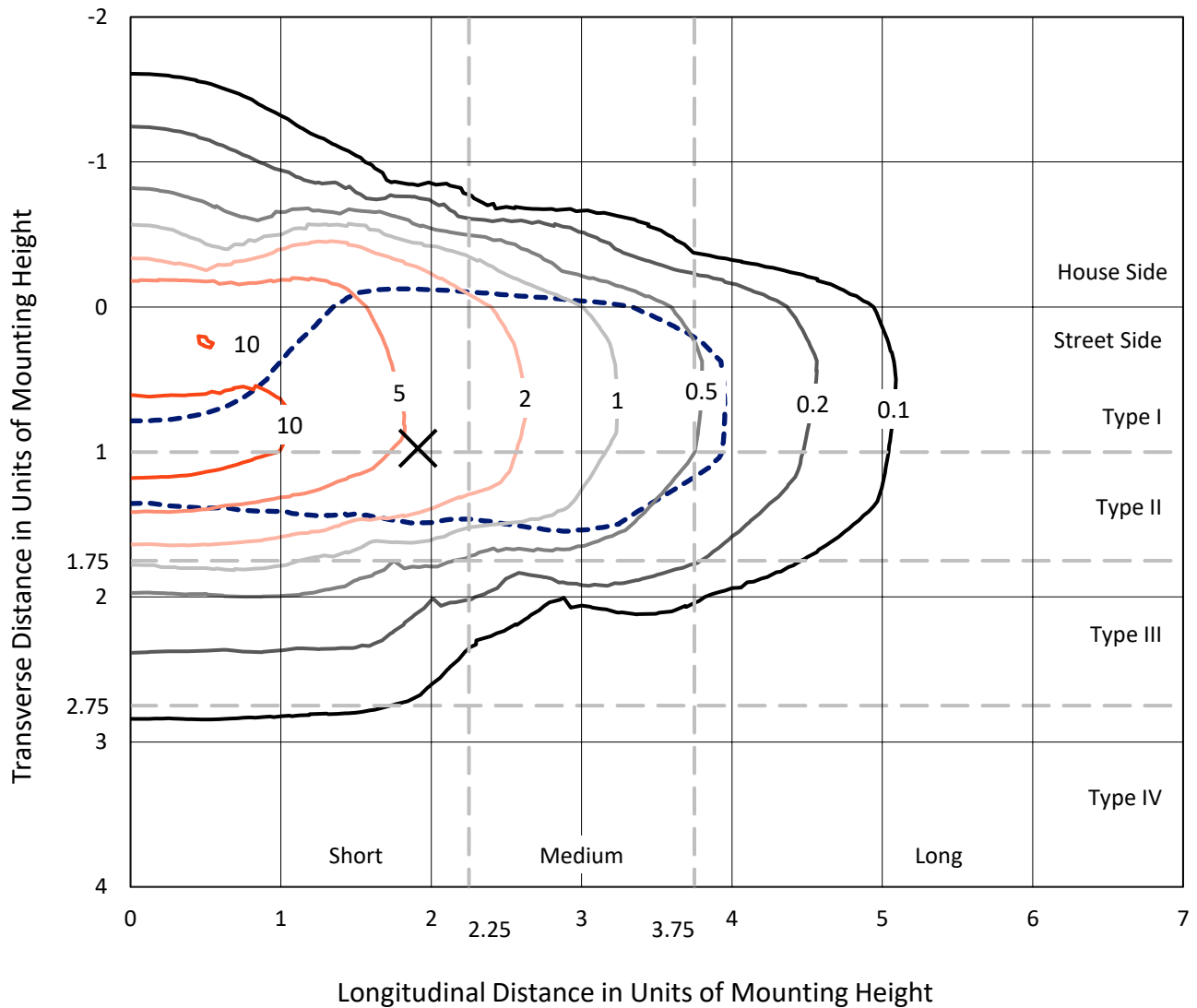
Lumens per Lamp: N/A  
Luminaire Lumens: 43747 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

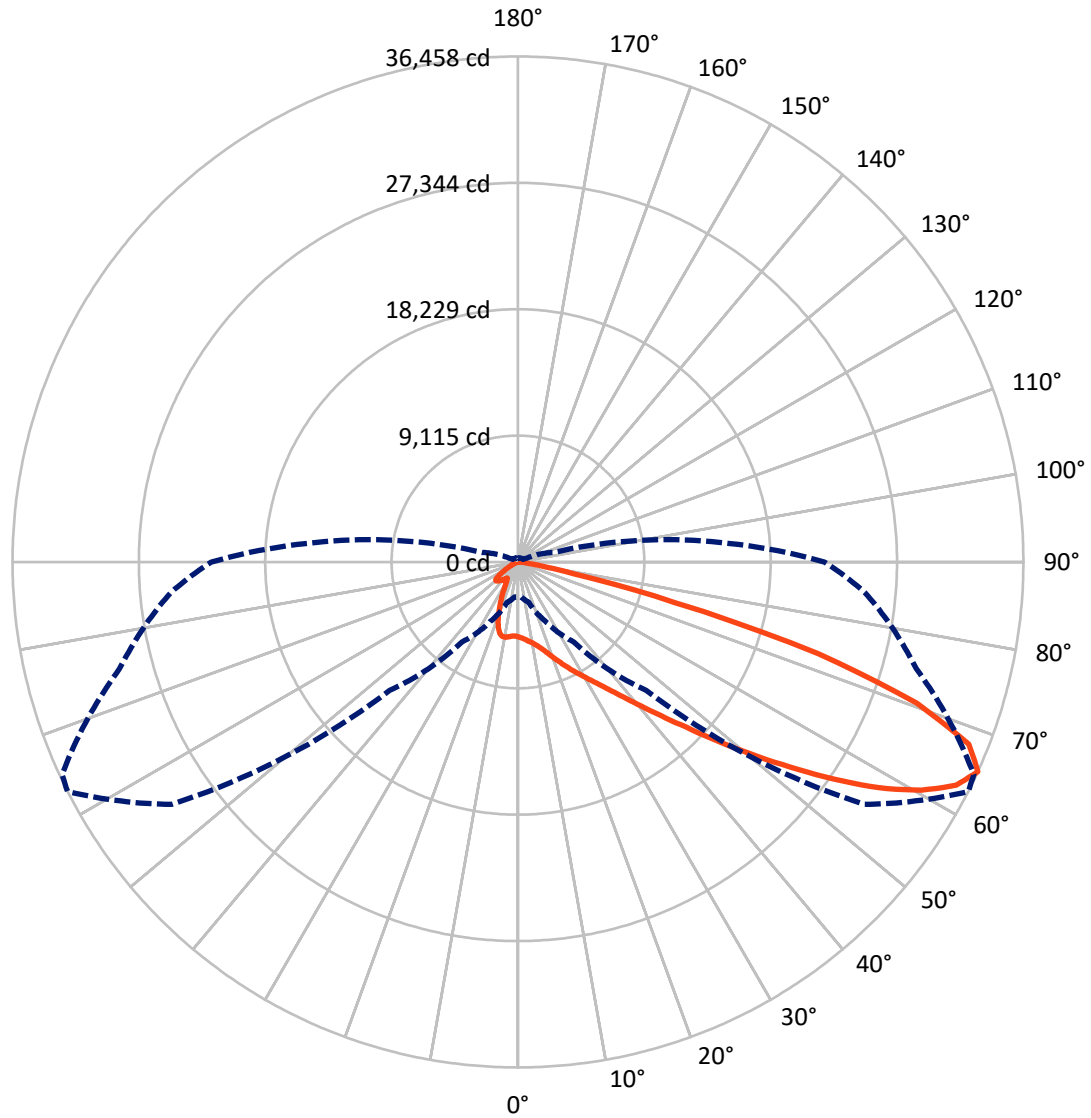
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	6430.5	0.0	6430.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	37316.5	0.0	37316.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	43747.0	0.0	43747.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.7	1.2
10°-20°	1411.5	3.2
20°-30°	2457.7	5.6
30°-40°	4429.8	10.1
40°-50°	8785.7	20.1
50°-60°	11967.6	27.4
60°-70°	9552.5	21.8
70°-80°	4322.7	9.9
80°-90°	310.7	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°	43747.0	100.0
0°-180°	43747.0	100.0

**Coefficient of Utilization**



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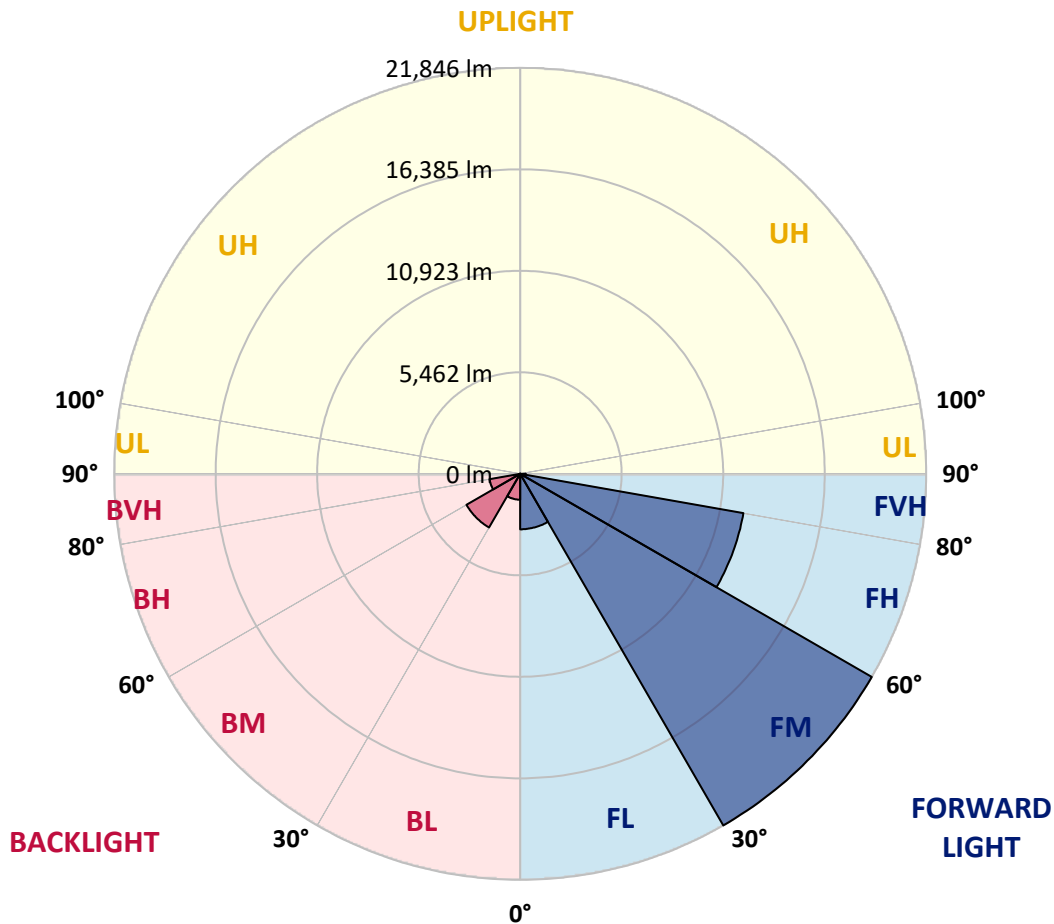
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2986.3	6.8			
FM (30°-60°)	21846.2	49.9			
FH (60°-80°)	12196.4	27.9			G5
FVH (80°-90°)	287.7	0.7			G3/500
BL (0°-30°)	1391.7	3.2	B3/2500		
BM (30°-60°)	3337.0	7.6	B3/5000		
BH (60°-80°)	1678.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.1	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°	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2
2.5°	5525.6	5510.6	5531.6	5522.6	5516.6	5504.5	5498.5	5492.5	5480.5	5471.4
5°	5540.7	5531.6	5552.7	5570.8	5588.8	5606.9	5615.9	5627.9	5615.9	5591.8
7.5°	5414.3	5408.2	5453.4	5507.6	5588.8	5658.0	5733.3	5775.4	5778.4	5769.4
10°	5405.2	5390.2	5435.3	5501.5	5606.9	5730.3	5862.7	5953.0	5965.0	6004.1
12.5°	5546.7	5531.6	5594.8	5667.1	5775.4	5904.8	6067.3	6193.7	6211.8	6266.0
15°	5784.4	5763.4	5835.6	5928.9	6067.3	6214.8	6386.4	6500.7	6515.8	6582.0
17.5°	6061.3	6040.2	6124.5	6223.8	6374.3	6576.0	6774.6	6901.0	6919.0	6961.2
20°	6416.4	6389.4	6455.6	6545.9	6705.4	6946.1	7183.9	7364.5	7361.5	7361.5
22.5°	6828.8	6786.6	6843.8	6916.0	7066.5	7358.5	7674.5	7888.1	7888.1	7803.9
25°	7271.2	7229.0	7292.2	7358.5	7490.9	7821.9	8192.1	8457.0	8469.0	8324.5
27.5°	7824.9	7770.8	7818.9	7897.2	7975.4	8312.5	8751.9	9058.9	9064.9	8842.2
30°	8890.3	8736.8	8586.4	8502.1	8538.2	8872.3	9341.8	9681.9	9712.0	9405.0
32.5°	10840.5	10810.5	10280.8	9588.6	9227.4	9474.2	10000.9	10410.2	10428.2	10034.0
35°	13871.2	13835.1	12983.4	11665.2	10488.4	10280.8	10801.4	11286.0	11273.9	10828.5
37.5°	17488.7	17455.6	16333.1	14569.4	12664.4	11499.6	11833.7	12342.3	12417.6	11833.7
40°	20579.6	20456.2	19745.9	18045.5	15553.6	13522.1	13302.4	13639.5	13717.7	13025.5
42.5°	22921.0	22815.7	22454.6	21392.2	19050.7	16513.6	15032.9	15162.3	15249.6	14419.0
45°	24133.9	24109.8	24254.3	24155.0	22614.1	20185.3	17506.8	16968.1	17001.2	15962.9
47.5°	24305.5	24293.4	24952.5	25885.5	25677.8	24326.5	20681.9	19219.2	19101.9	17705.4
50°	23294.2	23270.2	24534.2	26282.8	27724.4	27805.6	24287.4	21756.3	21497.5	19508.2
52.5°	20064.9	20058.9	22135.5	25045.8	28443.6	30851.3	27850.8	24543.2	24109.8	21416.3
55°	15439.2	15550.6	17931.1	21371.1	27131.5	32317.0	31050.0	27637.1	26972.0	23336.4
57.5°	10936.9	11099.4	13452.9	16516.6	23062.5	31450.2	33213.8	30737.0	30020.7	25250.5
60°	5874.7	6019.2	8375.7	12032.3	17157.7	28217.9	34354.5	33427.5	32750.4	27068.3
62.5°	3500.2	3548.3	4523.4	7767.8	11605.0	21557.7	33869.9	35477.1	34920.3	28594.1
65°	2513.0	2522.0	3012.6	4743.1	7045.5	13097.7	30472.1	36458.2	36286.6	29743.8
67.5°	2115.7	2109.7	2314.4	3151.0	4800.3	6560.9	23354.4	35070.8	35799.1	30472.1
70°	1814.8	1823.8	2064.6	2308.4	3608.5	3713.8	11611.0	30535.3	32088.3	30664.7
72.5°	1351.3	1381.4	1604.1	2103.7	2723.7	2555.1	4008.8	22641.2	25449.1	28892.1
75°	954.0	969.1	1128.6	1769.6	2031.5	1859.9	2046.5	11704.3	15303.8	22150.6
77.5°	734.3	761.4	854.7	1236.9	2001.4	1306.2	1252.0	4050.9	6223.8	13380.6
80°	397.3	445.4	617.0	893.8	1405.5	923.9	620.0	1613.1	2109.7	6256.9
82.5°	204.7	228.7	430.4	644.1	800.6	806.6	307.0	671.1	869.8	1932.2
85°	81.3	99.3	288.9	355.1	412.3	397.3	138.4	270.9	313.0	535.7
87.5°	18.1	30.1	105.3	81.3	78.2	84.3	33.1	63.2	60.2	63.2
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°
5399.2	0°	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2
5435.3	2.5°	5432.3	5420.3	5387.2	5351.1	5308.9	5284.8	5269.8	5266.8	5245.7	5230.7
5555.7	5°	5522.6	5510.6	5447.4	5372.1	5290.9	5227.7	5167.5	5113.3	5035.0	5020.0
5730.3	7.5°	5703.2	5670.1	5567.7	5465.4	5311.9	5128.3	4905.6	4649.8	4421.1	4351.9
5962.0	10°	5925.9	5880.7	5751.3	5570.8	5230.7	4731.1	4192.4	3692.8	3295.5	3184.1
6235.9	12.5°	6178.7	6139.6	5968.0	5634.0	4890.6	3984.7	3160.1	2540.1	2154.9	2058.6
6527.8	15°	6479.6	6422.5	6184.7	5537.6	4282.6	3027.6	2169.9	1802.7	1664.3	1646.2
6861.9	17.5°	6798.7	6705.4	6377.3	5191.5	3464.0	2151.9	1676.3	1571.0	1510.8	1492.8
7198.9	20°	7090.6	6970.2	6491.7	4667.9	2588.2	1676.3	1501.8	1432.6	1378.4	1357.3
7536.0	22.5°	7382.5	7211.0	6491.7	3954.6	1941.2	1486.7	1378.4	1315.2	1252.0	1224.9
7897.2	25°	7686.5	7457.8	6377.3	3160.1	1562.0	1363.3	1261.0	1191.8	1137.6	1104.5
8240.3	27.5°	7981.4	7665.4	6115.5	2407.7	1390.4	1255.0	1152.7	1086.5	1035.3	1011.2
8613.4	30°	8261.3	7870.1	5748.3	1826.8	1279.1	1149.7	1053.4	996.2	945.0	920.9
9098.0	32.5°	8640.5	8128.9	5357.1	1498.8	1182.8	1050.3	963.1	908.9	863.8	845.7
9727.0	35°	9167.2	8511.1	5020.0	1471.7	1101.5	969.1	881.8	830.6	785.5	770.5
10539.6	37.5°	9913.6	9128.1	4842.4	1652.3	1035.3	896.9	815.6	761.4	719.3	707.3
11571.9	40°	10834.5	9964.8	4938.7	1832.8	990.2	833.7	755.4	701.2	665.1	650.1
12757.7	42.5°	11927.0	10997.0	5471.4	1971.3	960.1	779.5	698.2	638.0	614.0	607.9
14102.9	45°	13182.0	12131.7	6287.0	2118.8	911.9	728.3	641.0	595.9	577.8	574.8
15565.6	47.5°	14608.6	13377.6	7232.0	2302.3	863.8	680.2	595.9	565.8	550.8	544.7
17091.5	50°	16023.1	14632.6	8204.1	2404.7	824.6	635.0	559.8	535.7	523.7	520.7
18704.6	52.5°	17503.8	15923.7	8989.6	2308.4	791.5	598.9	529.7	511.6	499.6	496.6
20191.3	55°	18915.3	16968.1	9125.1	1959.2	725.3	562.8	496.6	487.6	472.5	472.5
21699.2	57.5°	20131.2	17491.7	8168.0	1438.6	659.1	508.6	463.5	454.4	442.4	439.4
23059.5	60°	21247.7	17341.3	6305.1	969.1	586.9	454.4	421.3	415.3	403.3	388.2
24242.3	62.5°	21876.7	16679.2	4312.7	632.0	514.6	397.3	373.2	370.2	343.1	313.0
25118.0	65°	22114.5	15318.8	2690.6	460.5	430.4	340.1	322.0	316.0	276.9	243.8
25614.6	67.5°	21906.8	13079.7	1357.3	364.2	340.1	282.9	264.8	264.8	237.8	207.7
25584.5	70°	21076.2	9805.2	571.8	291.9	261.8	216.7	216.7	228.7	201.6	168.5
24257.3	72.5°	19273.4	6597.0	304.0	222.7	195.6	153.5	177.6	186.6	159.5	126.4
19854.3	75°	15321.8	4023.8	210.7	165.5	123.4	108.3	135.4	141.5	108.3	84.3
13612.4	77.5°	10479.4	2311.4	141.5	105.3	78.2	63.2	93.3	87.3	57.2	39.1
5248.7	80°	4601.7	963.1	81.3	48.2	30.1	24.1	33.1	24.1	18.1	12.0
719.3	82.5°	538.7	225.7	30.1	18.1	12.0	6.0	3.0	0.0	0.0	0.0
219.7	85°	111.4	27.1	15.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
39.1	87.5°	21.1	6.0	3.0	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°
5399.2
5245.7
5014.0
4318.8
3142.0
2031.5
1628.2
1483.7
1345.3
1209.9
1092.5
1011.2
923.9
845.7
770.5
704.2
647.1
607.9
571.8
544.7
520.7
496.6
469.5
436.4
385.2
307.0
240.8
204.7
165.5
126.4
81.3
42.1
12.0
0.0
0.0
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0.0

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