

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: P954589

Luminaire Tested: **GALN-SB7D-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954589
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-SB7D-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 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: 58513 lumens
Efficiency: N/A
Efficacy: 114.1 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

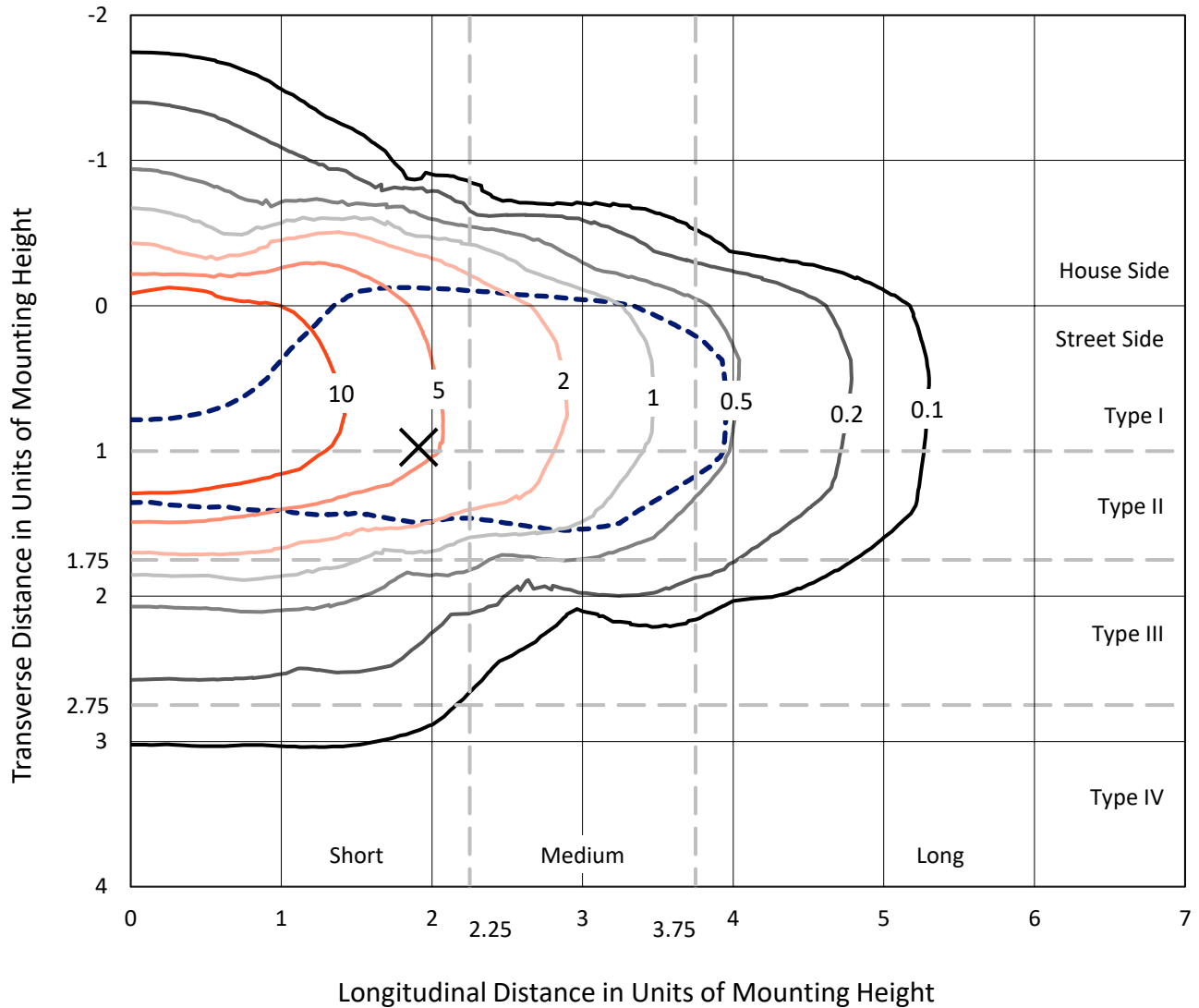
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

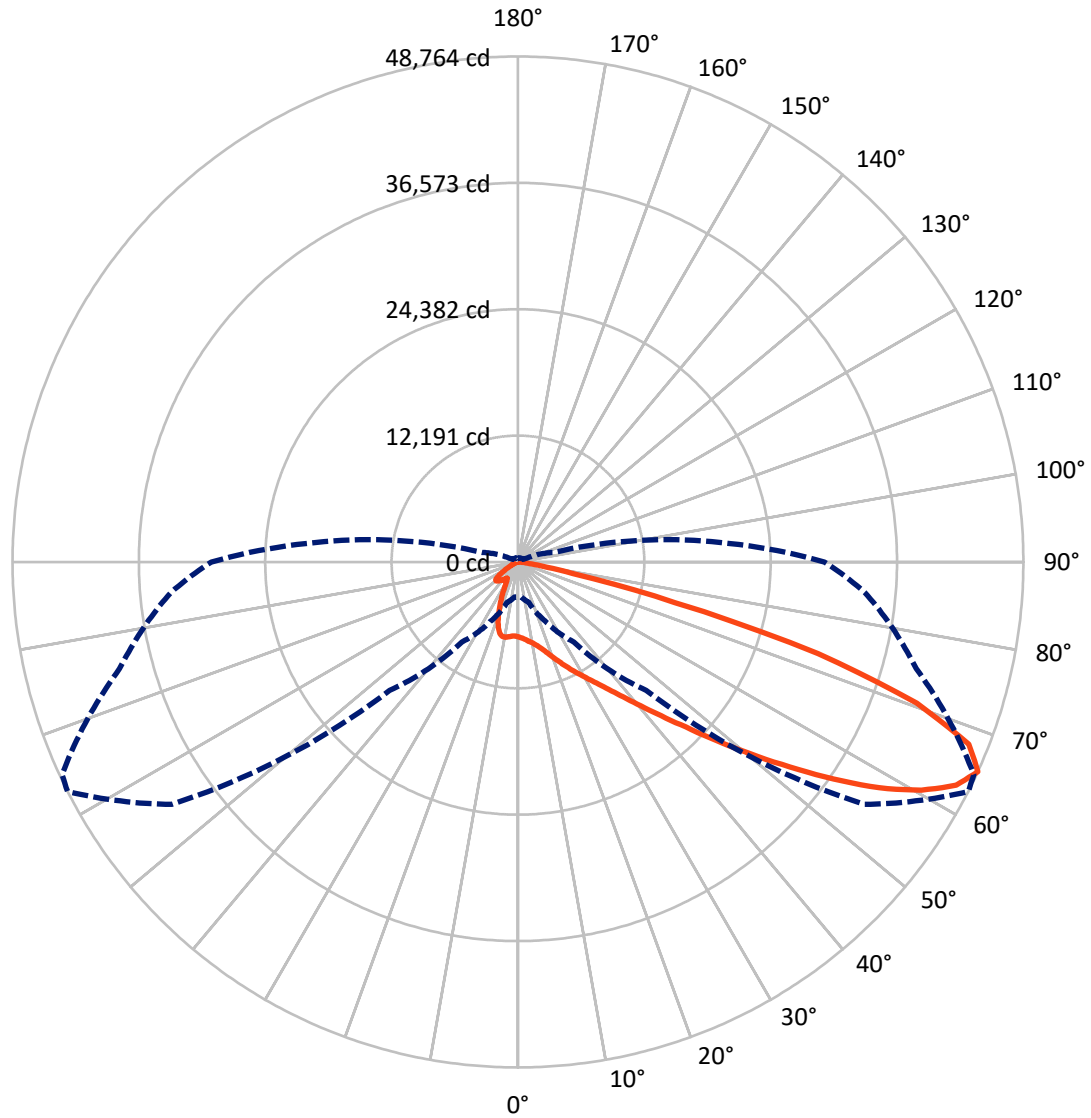
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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
House Side	Lumens	8601.0	0.0	8601.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49912.0	0.0	49912.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	58513.0	0.0	58513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.4	1.2
10°-20°	1887.9	3.2
20°-30°	3287.3	5.6
30°-40°	5925.0	10.1
40°-50°	11751.2	20.1
50°-60°	16007.1	27.4
60°-70°	12776.7	21.8
70°-80°	5781.8	9.9
80°-90°	415.6	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°	58513.0	100.0
0°-180°	58513.0	100.0



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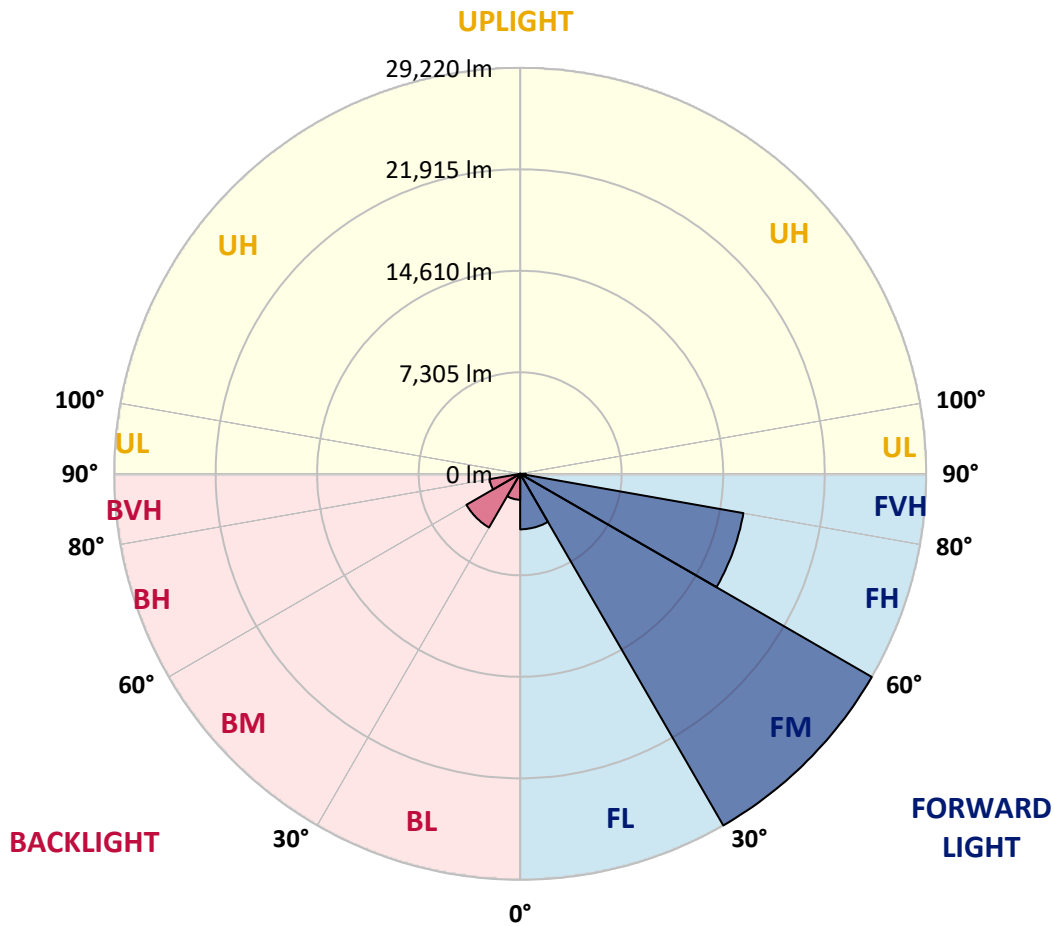
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3994.2	6.8			
FM (30°-60°)	29219.9	49.9			
FH (60°-80°)	16313.1	27.9			G5
FVH (80°-90°)	384.8	0.7			G3/500
BL (0°-30°)	1861.4	3.2	B3/2500		
BM (30°-60°)	4463.4	7.6	B3/5000		
BH (60°-80°)	2245.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	30.8	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°	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6
2.5°	7390.7	7370.6	7398.7	7386.7	7378.6	7362.5	7354.4	7346.4	7330.3	7318.2
5°	7410.8	7398.7	7426.9	7451.1	7475.2	7499.4	7511.4	7527.5	7511.4	7479.2
7.5°	7241.7	7233.7	7294.1	7366.5	7475.2	7567.8	7668.4	7724.8	7728.8	7716.7
10°	7229.7	7209.5	7269.9	7358.5	7499.4	7664.4	7841.5	7962.3	7978.4	8030.7
12.5°	7418.9	7398.7	7483.3	7579.9	7724.8	7897.9	8115.3	8284.3	8308.5	8380.9
15°	7736.9	7708.7	7805.3	7930.1	8115.3	8312.5	8541.9	8694.9	8715.0	8803.6
17.5°	8107.2	8079.0	8191.7	8324.6	8525.8	8795.6	9061.2	9230.3	9254.4	9310.8
20°	8582.2	8546.0	8634.5	8755.3	8968.6	9290.7	9608.7	9850.2	9846.2	9846.2
22.5°	9133.7	9077.3	9153.8	9250.4	9451.7	9842.2	10264.8	10550.6	10550.6	10437.9
25°	9725.4	9669.1	9753.6	9842.2	10019.3	10462.1	10957.2	11311.4	11327.5	11134.3
27.5°	10466.1	10393.6	10458.1	10562.7	10667.4	11118.2	11705.9	12116.5	12124.6	11826.7
30°	11891.1	11685.8	11484.5	11371.8	11420.1	11866.9	12494.9	12949.8	12990.0	12579.4
32.5°	14499.6	14459.3	13750.8	12825.0	12341.9	12672.0	13376.5	13923.9	13948.1	13420.8
35°	18553.2	18504.9	17365.7	15602.5	14028.6	13750.8	14447.2	15095.3	15079.2	14483.5
37.5°	23391.7	23347.5	21846.0	19487.1	16939.0	15381.1	15828.0	16508.3	16608.9	15828.0
40°	27525.8	27360.8	26410.8	24136.4	20803.4	18086.2	17792.4	18243.2	18347.9	17422.0
42.5°	30657.6	30516.7	30033.7	28612.7	25480.9	22087.5	20107.0	20280.1	20396.8	19285.8
45°	32279.9	32247.7	32440.9	32308.0	30247.0	26998.5	23415.9	22695.3	22739.6	21350.8
47.5°	32509.3	32493.2	33374.8	34622.7	34344.9	32537.5	27662.7	25706.4	25549.4	23681.6
50°	31156.8	31124.6	32815.3	35154.0	37082.2	37190.9	32485.2	29099.8	28753.6	26092.8
52.5°	26837.5	26829.4	29607.0	33499.6	38044.3	41264.6	37251.3	32827.3	32247.7	28644.9
55°	20650.4	20799.4	23983.5	28584.5	36289.2	43225.0	41530.3	36965.5	36075.8	31213.1
57.5°	14628.4	14845.8	17993.6	22091.5	30846.8	42065.7	44424.6	41111.7	40153.6	33773.3
60°	7857.6	8050.8	11202.8	16093.6	22948.9	37742.4	45950.2	44710.4	43804.7	36204.7
62.5°	4681.6	4746.0	6050.2	10389.6	15522.0	28834.1	45302.1	47451.7	46707.0	38245.5
65°	3361.2	3373.3	4029.4	6344.1	9423.5	17518.6	40757.4	48764.0	48534.5	39783.3
67.5°	2829.9	2821.8	3095.6	4214.6	6420.6	8775.4	31237.3	46908.3	47882.4	40757.4
70°	2427.3	2439.4	2761.4	3087.5	4826.5	4967.4	15530.1	40841.9	42919.1	41015.0
72.5°	1807.4	1847.7	2145.6	2813.8	3643.0	3417.6	5361.9	30283.3	34039.0	38644.1
75°	1276.1	1296.2	1509.5	2366.9	2717.2	2487.7	2737.3	15654.9	20469.3	29627.1
77.5°	982.2	1018.4	1143.2	1654.4	2676.9	1747.0	1674.6	5418.2	8324.6	17897.0
80°	531.4	595.8	825.2	1195.6	1879.9	1235.8	829.2	2157.6	2821.8	8368.9
82.5°	273.7	305.9	575.6	861.4	1070.8	1078.8	410.6	897.7	1163.3	2584.3
85°	108.7	132.8	386.4	475.0	551.5	531.4	185.2	362.3	418.6	716.5
87.5°	24.2	40.3	140.9	108.7	104.7	112.7	44.3	84.5	80.5	84.5
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°
7221.6	0°	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6	7221.6
7269.9	2.5°	7265.9	7249.8	7205.5	7157.2	7100.8	7068.6	7048.5	7044.5	7016.3	6996.2
7430.9	5°	7386.7	7370.6	7286.0	7185.4	7076.7	6992.2	6911.7	6839.2	6734.5	6714.4
7664.4	7.5°	7628.2	7583.9	7447.0	7310.2	7104.9	6859.3	6561.4	6219.3	5913.3	5820.8
7974.4	10°	7926.1	7865.7	7692.6	7451.1	6996.2	6328.0	5607.4	4939.2	4407.8	4258.9
8340.7	12.5°	8264.2	8211.9	7982.4	7535.6	6541.3	5329.7	4226.7	3397.5	2882.2	2753.4
8731.1	15°	8666.7	8590.3	8272.2	7406.8	5728.2	4049.6	2902.3	2411.2	2226.1	2201.9
9178.0	17.5°	9093.4	8968.6	8529.9	6943.9	4633.3	2878.2	2242.2	2101.3	2020.8	1996.6
9628.8	20°	9483.9	9322.9	8682.8	6243.4	3461.9	2242.2	2008.7	1916.1	1843.6	1815.5
10079.7	22.5°	9874.4	9644.9	8682.8	5289.4	2596.4	1988.6	1843.6	1759.1	1674.6	1638.3
10562.7	25°	10280.9	9975.0	8529.9	4226.7	2089.2	1823.5	1686.7	1594.1	1521.6	1477.3
11021.6	27.5°	10675.4	10252.8	8179.7	3220.3	1859.7	1678.6	1541.7	1453.2	1384.7	1352.5
11520.8	30°	11049.8	10526.5	7688.6	2443.4	1710.8	1537.7	1408.9	1332.4	1264.0	1231.8
12168.9	32.5°	11557.0	10872.7	7165.3	2004.7	1582.0	1404.9	1288.1	1215.7	1155.3	1131.1
13010.2	35°	12261.4	11383.9	6714.4	1968.4	1473.3	1296.2	1179.4	1111.0	1050.6	1030.5
14097.0	37.5°	13259.7	12209.1	6476.9	2210.0	1384.7	1199.6	1090.9	1018.4	962.1	946.0
15477.8	40°	14491.5	13328.2	6605.7	2451.5	1324.4	1115.0	1010.4	937.9	889.6	869.5
17063.8	42.5°	15952.8	14708.9	7318.2	2636.7	1284.1	1042.6	933.9	853.4	821.2	813.1
18863.1	45°	17631.4	16226.5	8409.1	2833.9	1219.7	974.2	857.4	797.0	772.9	768.9
20819.5	47.5°	19539.4	17893.0	9673.1	3079.4	1155.3	909.7	797.0	756.8	736.7	728.6
22860.4	50°	21431.4	19571.6	10973.3	3216.3	1103.0	849.4	748.7	716.5	700.4	696.4
25018.0	52.5°	23411.9	21298.5	12023.9	3087.5	1058.7	801.1	708.5	684.3	668.2	664.2
27006.6	55°	25299.8	22695.3	12205.1	2620.6	970.1	752.8	664.2	652.1	632.0	632.0
29023.3	57.5°	26926.1	23395.8	10925.0	1924.2	881.6	680.3	619.9	607.8	591.7	587.7
30842.8	60°	28419.5	23194.5	8433.3	1296.2	785.0	607.8	563.6	555.5	539.4	519.3
32424.8	62.5°	29260.8	22308.9	5768.4	845.3	688.3	531.4	499.2	495.1	458.9	418.6
33596.2	65°	29578.8	20489.4	3598.7	615.9	575.6	454.9	430.7	422.7	370.3	326.1
34260.4	67.5°	29301.1	17494.5	1815.5	487.1	454.9	378.4	354.2	354.2	318.0	277.8
34220.1	70°	28190.0	13114.8	764.8	390.5	350.2	289.8	289.8	305.9	269.7	225.4
32444.9	72.5°	25778.8	8823.7	406.6	297.9	261.7	205.3	237.5	249.6	213.3	169.1
26555.7	75°	20493.4	5382.0	281.8	221.4	165.0	144.9	181.1	189.2	144.9	112.7
18207.0	77.5°	14016.5	3091.5	189.2	140.9	104.7	84.5	124.8	116.7	76.5	52.3
7020.3	80°	6154.9	1288.1	108.7	64.4	40.3	32.2	44.3	32.2	24.2	16.1
962.1	82.5°	720.6	301.9	40.3	24.2	16.1	8.1	4.0	0.0	0.0	0.0
293.9	85°	148.9	36.2	20.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
52.3	87.5°	28.2	8.1	4.0	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>
7221.6
7016.3
6706.4
5776.5
4202.5
2717.2
2177.8
1984.5
1799.4
1618.2
1461.2
1352.5
1235.8
1131.1
1030.5
941.9
865.5
813.1
764.8
728.6
696.4
664.2
628.0
583.7
515.3
410.6
322.0
273.7
221.4
169.1
108.7
56.4
16.1
0.0
0.0
0.0
0.0

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