

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: P956145

Luminaire Tested: **GALN-SB8D-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956145  
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-SB8D-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

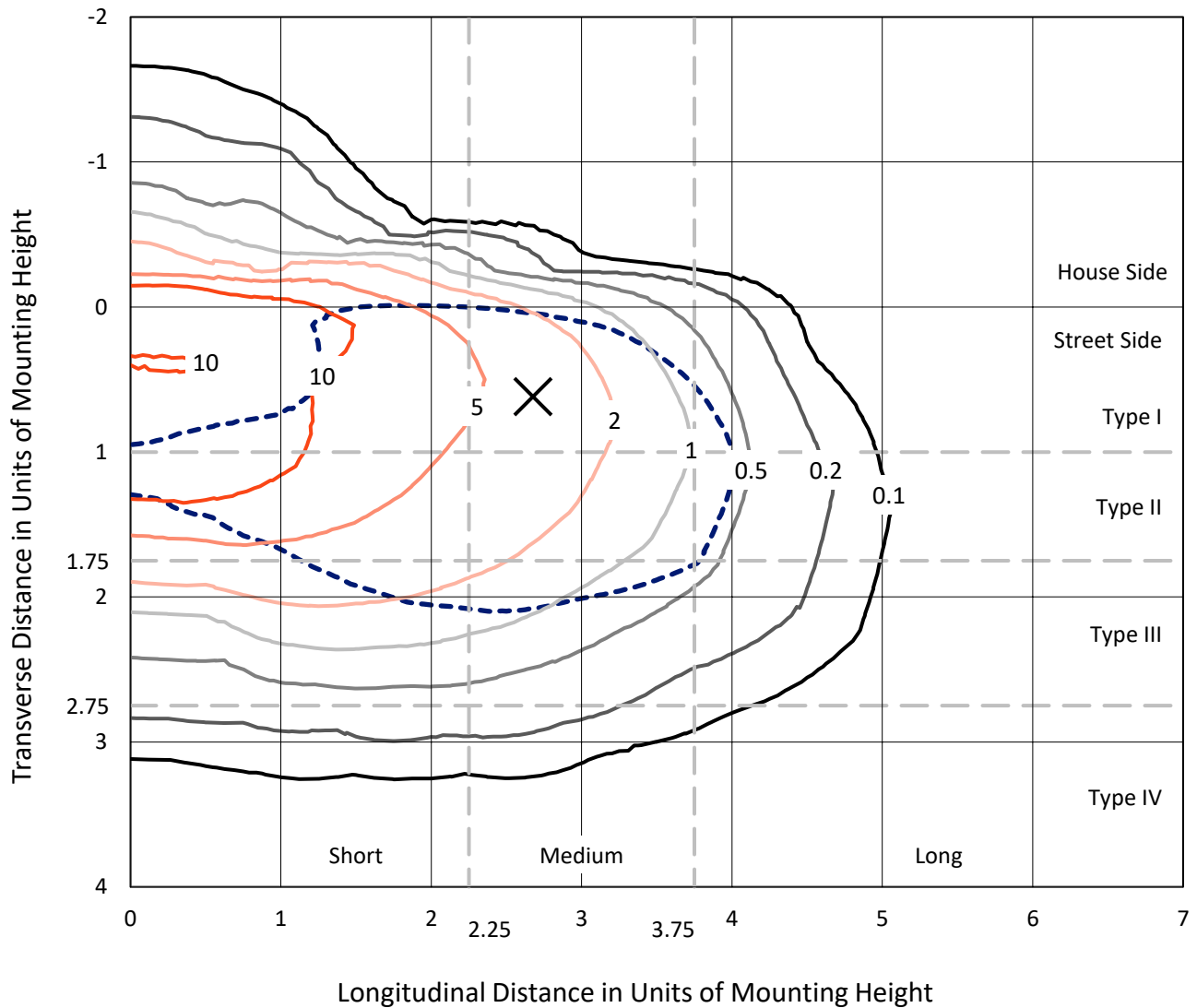
Lumens per Lamp: N/A  
Luminaire Lumens: 65527 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

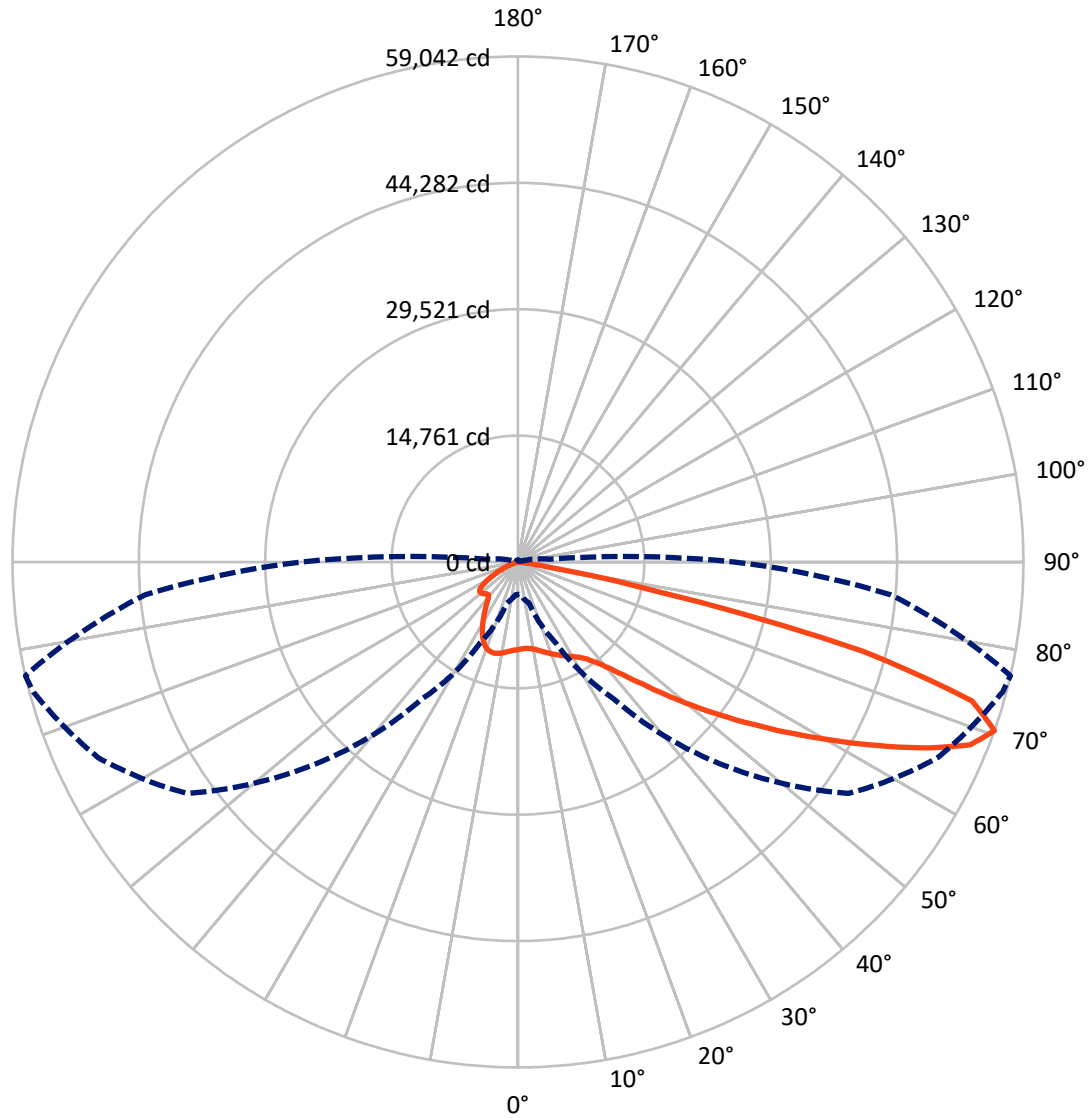
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P956145  
CATALOG NUMBER: GALN-SB8D-850-U-T3R-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SB8D-850-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6907.5	0.0	6907.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	58619.5	0.0	58619.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	65527.0	0.0	65527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	880.9	1.3
10°-20°	2091.1	3.2
20°-30°	3234.4	4.9
30°-40°	5869.0	9.0
40°-50°	11078.4	16.9
50°-60°	16007.4	24.4
60°-70°	17039.5	26.0
70°-80°	9029.7	13.8
80°-90°	296.5	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°	65527.0	100.0
0°-180°	65527.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956145

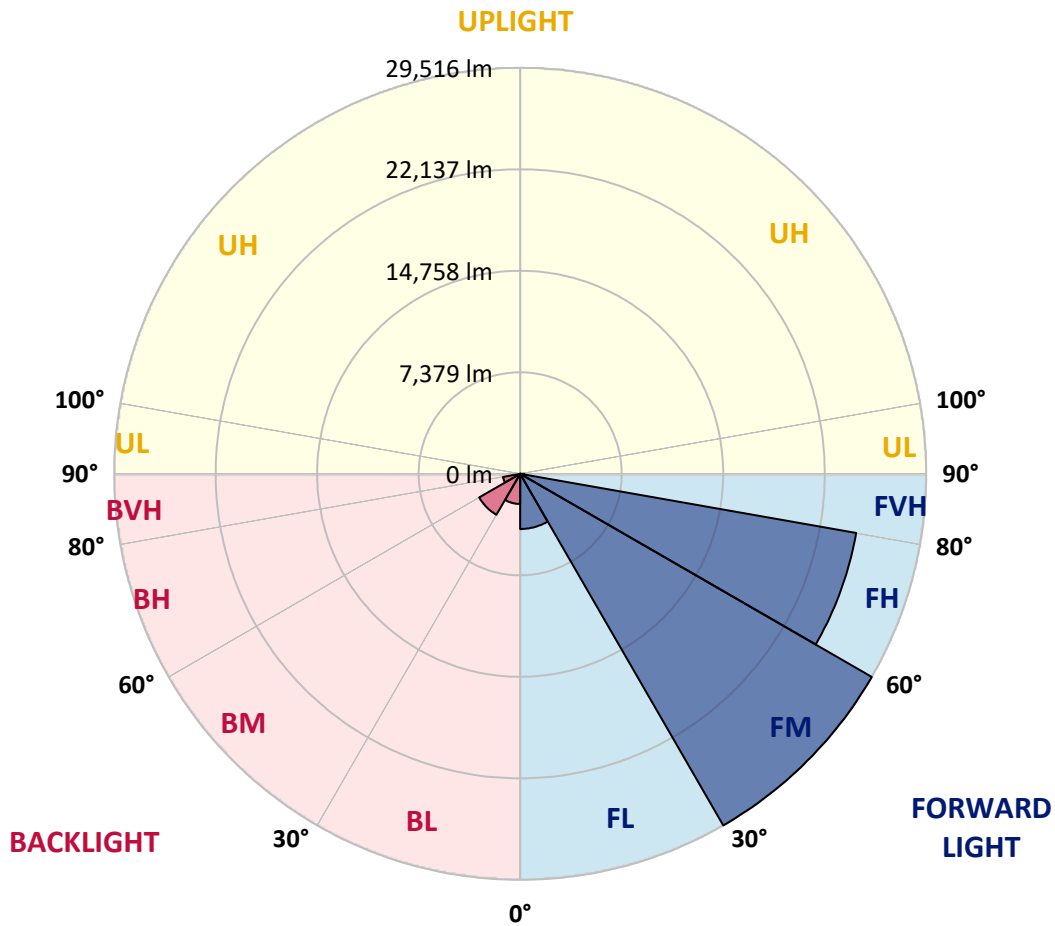
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4011.8	6.1			
FM (30°-60°)	29516.3	45.0			
FH (60°-80°)	24802.9	37.9			G5
FVH (80°-90°)	288.5	0.4			G3/500
BL (0°-30°)	2194.6	3.3	B3/2500		
BM (30°-60°)	3438.6	5.2	B3/5000		
BH (60°-80°)	1266.3	1.9	B3/2500		G3/2500
BVH (80°-90°)	8.0	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



REPORT NUMBER: P956145  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0
2.5°	9596.2	9683.1	9670.7	9728.6	9749.3	9832.1	9914.8	10026.5	10150.7	10146.5
5°	9054.1	9141.0	9161.7	9240.3	9339.6	9467.9	9637.6	9861.0	10092.7	10130.0
7.5°	8412.7	8503.7	8557.5	8714.8	8896.8	9161.7	9438.9	9765.8	10150.7	10204.5
10°	7771.3	7854.1	7924.4	8147.9	8437.5	8830.6	9281.7	9753.4	10270.7	10349.3
12.5°	7374.0	7452.7	7531.3	7725.8	8085.8	8565.8	9178.2	9811.4	10469.3	10581.0
15°	7233.3	7303.7	7365.8	7539.6	7874.7	8421.0	9157.5	9931.4	10721.7	10870.7
17.5°	7254.0	7291.3	7332.7	7465.1	7792.0	8354.8	9194.8	10138.3	11019.7	11152.1
20°	7374.0	7394.7	7398.9	7489.9	7779.6	8346.5	9269.3	10336.9	11301.1	11479.0
22.5°	7527.1	7535.4	7527.1	7589.2	7858.2	8408.6	9368.6	10576.9	11615.6	11781.1
25°	8243.0	8085.8	7887.2	7767.2	7990.6	8528.6	9517.6	10899.7	11959.0	12120.4
27.5°	10465.2	10014.1	9302.4	8503.7	8263.7	8702.4	9724.5	11226.6	12306.6	12451.4
30°	14073.6	13481.8	12273.5	10473.5	9141.0	9066.5	9993.4	11553.5	12674.9	12832.1
32.5°	17690.2	17545.4	16150.9	13659.8	11114.9	9877.6	10440.3	11996.3	13163.2	13287.3
35°	21348.3	21054.5	19912.4	17450.2	14156.3	11528.7	11185.2	12575.6	13804.6	13945.3
37.5°	24149.8	23971.8	23264.2	21236.6	17764.7	14077.7	12459.7	13473.6	14735.7	14892.9
40°	26624.3	26541.6	26301.6	24965.0	21799.3	17413.0	14441.9	14863.9	16026.7	16213.0
42.5°	28569.2	28763.7	28900.3	28527.8	25958.1	21220.0	17106.8	16817.1	17826.8	18017.1
45°	30559.6	30625.8	31176.2	31714.2	30087.9	25200.8	20111.0	19105.5	20065.5	20301.4
47.5°	31838.3	32103.1	33071.4	34019.1	33559.7	29148.6	23338.7	21807.6	22660.1	23102.8
50°	31933.5	32434.2	33766.6	35417.7	36088.1	32905.9	26847.8	24886.3	25792.6	26280.9
52.5°	30348.6	31126.5	33191.4	35608.1	37453.7	36088.1	30476.9	27965.1	29127.9	29765.1
55°	23268.4	24286.3	31027.2	34573.6	37507.5	38500.6	34010.8	31172.1	32843.8	33563.9
57.5°	20272.4	20785.5	24393.9	32777.6	36510.2	39473.0	37205.4	34226.0	36886.7	37780.6
60°	16866.8	17541.3	20458.6	29839.6	35157.0	39568.2	40027.5	38165.4	41269.0	42274.5
62.5°	11462.4	12194.9	15095.7	24791.2	33307.3	39522.7	42340.7	42220.7	46139.5	47219.5
65°	7100.9	7560.3	9472.0	20243.4	30721.0	39572.3	44761.5	47145.0	51278.9	52375.5
67.5°	5611.2	5822.3	6819.5	15542.6	26264.3	38455.1	47178.1	51775.5	56116.3	56985.3
70°	3769.8	3898.1	4961.5	10419.7	19540.0	33299.0	47132.6	54101.1	58607.5	59042.0
72.5°	1986.3	2085.6	2900.8	4825.0	11801.8	23669.8	39729.6	51320.3	56128.8	55474.9
75°	993.1	1158.7	1953.2	2449.7	5040.2	13200.4	24671.2	40462.0	44178.0	41645.5
77.5°	753.1	910.4	1613.8	1613.8	1754.5	4444.3	10448.6	22068.3	20355.2	16949.5
80°	480.0	620.7	1411.1	1220.7	732.4	1129.7	2722.8	6182.3	4324.3	3289.8
82.5°	281.4	405.5	1175.2	806.9	409.7	417.9	769.7	1315.9	1121.4	873.1
85°	111.7	264.8	806.9	318.6	161.4	103.5	231.7	281.4	231.7	173.8
87.5°	0.0	62.1	140.7	0.0	12.4	8.3	16.6	20.7	20.7	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956145  
 CATALOG NUMBER: GALN-SB8D-850-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10221.0	0°	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0	10221.0
10229.3	2.5°	10266.5	10274.8	10299.7	10303.8	10245.9	10171.4	10142.4	10130.0	10080.3	10076.2
10295.5	5°	10390.7	10427.9	10390.7	10283.1	10026.5	9666.5	9393.4	9170.0	8967.2	8905.1
10523.1	7.5°	10639.0	10676.2	10564.5	10142.4	9496.9	8781.0	8135.4	7680.3	7270.6	7117.5
10800.4	10°	10994.8	11044.5	10692.8	9840.3	8698.2	7547.8	6455.4	5685.7	5085.7	4841.5
11176.9	12.5°	11441.8	11462.4	10763.1	9381.0	7659.6	6016.8	4469.1	3645.6	3111.8	2913.2
11632.1	15°	11934.2	11905.2	10771.4	8756.2	6244.3	4253.9	2917.3	2395.9	2180.8	2114.6
12087.3	17.5°	12451.4	12331.4	10605.9	7854.1	4692.6	2909.1	2164.2	2040.1	2002.8	1986.3
12538.3	20°	12960.4	12691.5	10303.8	6674.7	3368.4	2172.5	1965.6	1928.3	1907.6	1899.4
12993.5	22.5°	13423.9	12964.6	9786.5	5305.0	2445.6	1920.1	1858.0	1824.9	1787.6	1771.1
13436.3	25°	13874.9	13121.8	9058.2	4026.3	1957.3	1795.9	1746.3	1684.2	1634.5	1613.8
13912.2	27.5°	14313.6	13221.1	8147.9	2979.4	1746.3	1680.1	1589.0	1502.1	1464.9	1456.6
14421.2	30°	14781.2	13254.2	7113.3	2222.1	1618.0	1535.2	1402.8	1303.5	1282.8	1286.9
15108.1	32.5°	15352.2	13303.9	6070.5	1820.8	1510.4	1361.4	1204.2	1100.7	1084.2	1100.7
16109.5	35°	16035.0	13403.2	5065.0	1675.9	1415.2	1183.5	1013.8	926.9	910.4	922.8
17392.3	37.5°	16961.9	13564.6	4125.7	1647.0	1336.6	1034.5	852.4	782.1	782.1	786.2
18964.8	40°	18195.1	13994.9	3285.6	1626.3	1295.2	922.8	720.0	691.1	703.5	711.7
20967.6	42.5°	19697.2	14909.5	2718.7	1601.4	1249.7	873.1	653.8	641.4	662.1	670.4
23367.7	45°	21381.4	16068.1	2520.1	1560.1	1208.3	906.2	624.8	608.3	633.1	637.3
26057.4	47.5°	23123.5	17201.9	2495.3	1514.5	1166.9	955.9	616.6	579.3	608.3	612.4
28929.2	50°	24886.3	17942.7	2520.1	1444.2	1100.7	955.9	620.7	550.4	575.2	587.6
31908.6	52.5°	26661.6	18282.0	2503.5	1291.1	984.9	898.0	620.7	525.5	550.4	558.6
35128.1	55°	28383.0	18215.8	2251.1	1063.5	835.9	794.5	604.2	504.8	521.4	525.5
38169.5	57.5°	29744.4	17293.0	1783.5	827.6	678.6	662.1	550.4	480.0	492.4	488.3
40958.6	60°	30456.2	15265.3	1274.5	637.3	533.8	521.4	484.2	446.9	455.2	434.5
43321.4	62.5°	30464.5	12583.9	852.4	504.8	426.2	413.8	413.8	401.4	393.1	351.7
45150.5	65°	29814.8	9608.6	566.9	401.4	343.5	322.8	347.6	343.5	314.5	256.6
45709.1	67.5°	28341.6	6298.1	430.4	314.5	264.8	252.4	277.3	289.7	269.0	215.2
43673.2	70°	25312.6	3666.3	355.9	244.1	198.6	186.2	223.5	248.3	223.5	173.8
37329.5	72.5°	21025.5	1978.0	289.7	182.1	136.6	124.1	177.9	202.8	177.9	128.3
23951.1	75°	13643.2	1059.3	223.5	120.0	70.3	78.6	132.4	149.0	124.1	82.8
7030.6	77.5°	4580.8	467.6	140.7	57.9	33.1	33.1	78.6	91.0	57.9	29.0
1278.7	80°	1022.1	194.5	57.9	24.8	12.4	12.4	16.6	16.6	8.3	0.0
393.1	82.5°	335.2	78.6	24.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
99.3	85°	128.3	29.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33.1	87.5°	49.7	4.1	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°
10221.0
10084.5
8867.9
7055.4
4738.1
2851.1
2114.6
1982.1
1891.1
1767.0
1605.6
1448.3
1286.9
1096.6
918.7
782.1
711.7
670.4
641.4
616.6
591.7
558.6
525.5
488.3
430.4
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248.3
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