

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: P955788

Luminaire Tested: **GALN-SB8C-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955788  
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-SB8C-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

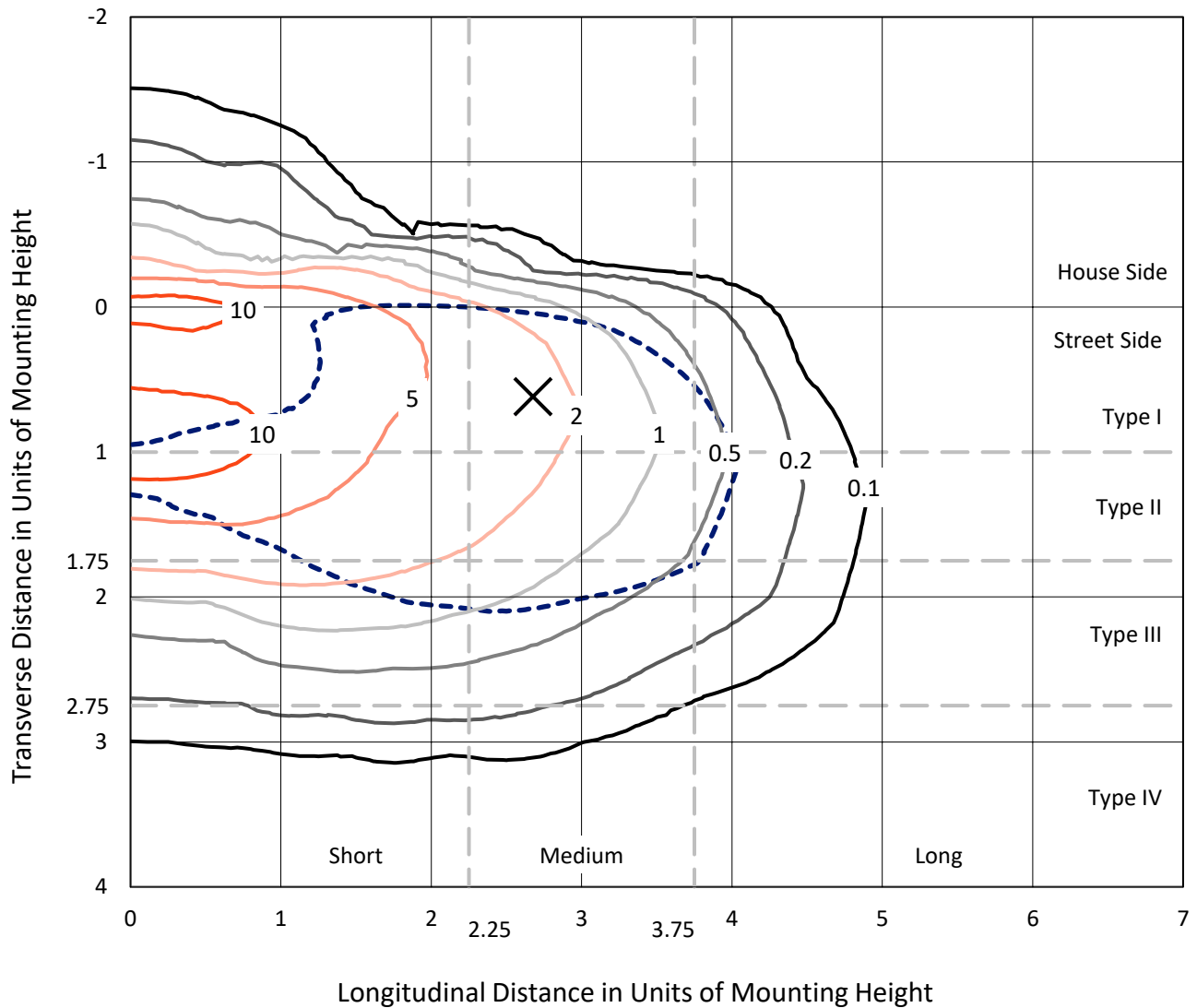
Lumens per Lamp: N/A  
Luminaire Lumens: 48225 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

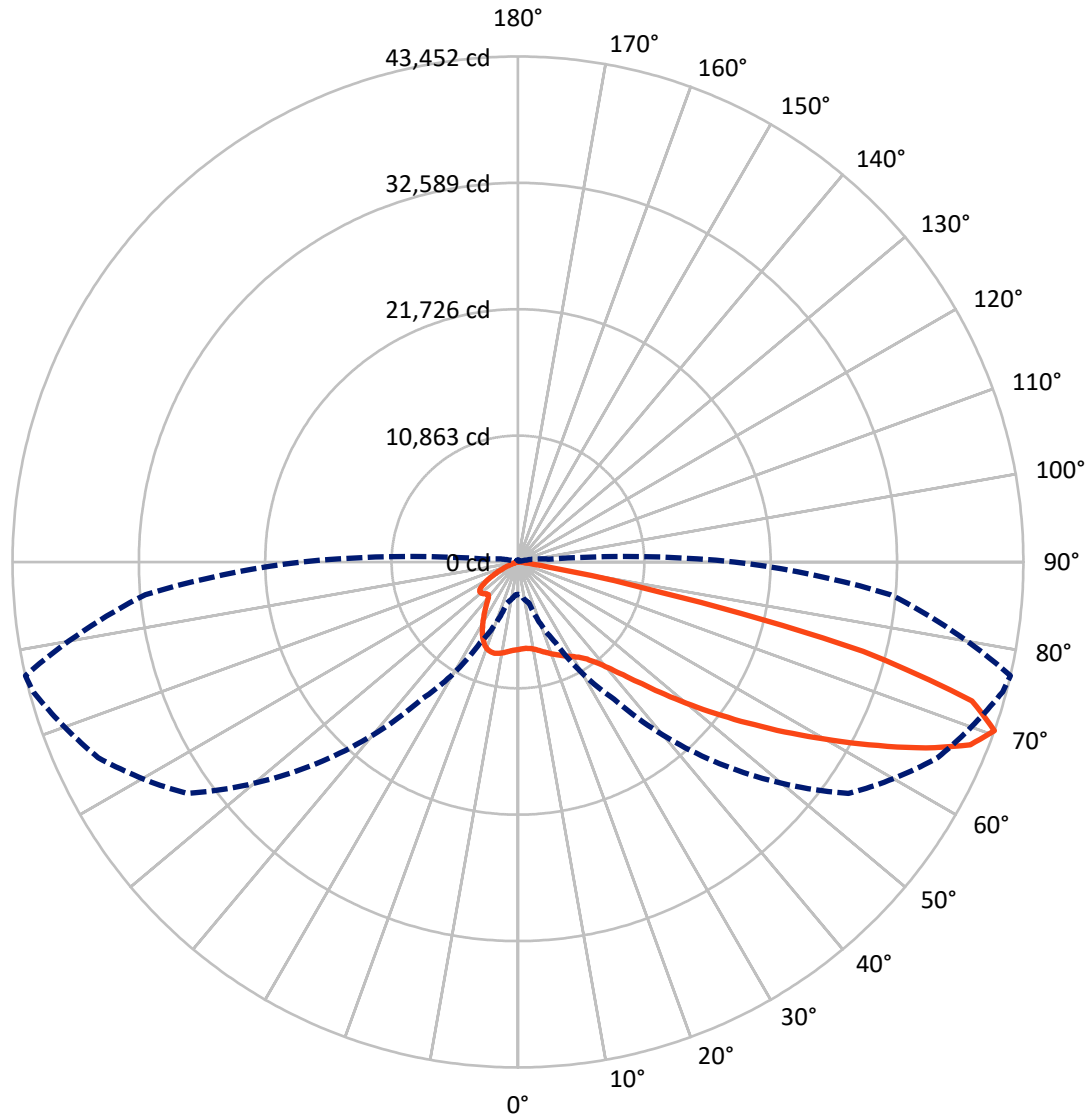
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SB8C-850-U-T3R-HSS

### 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	5083.6	0.0	5083.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	43141.4	0.0	43141.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	48225.0	0.0	48225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.3	1.3
10°-20°	1539.0	3.2
20°-30°	2380.4	4.9
30°-40°	4319.3	9.0
40°-50°	8153.3	16.9
50°-60°	11780.8	24.4
60°-70°	12540.3	26.0
70°-80°	6645.5	13.8
80°-90°	218.2	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°	48225.0	100.0
0°-180°	48225.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955788

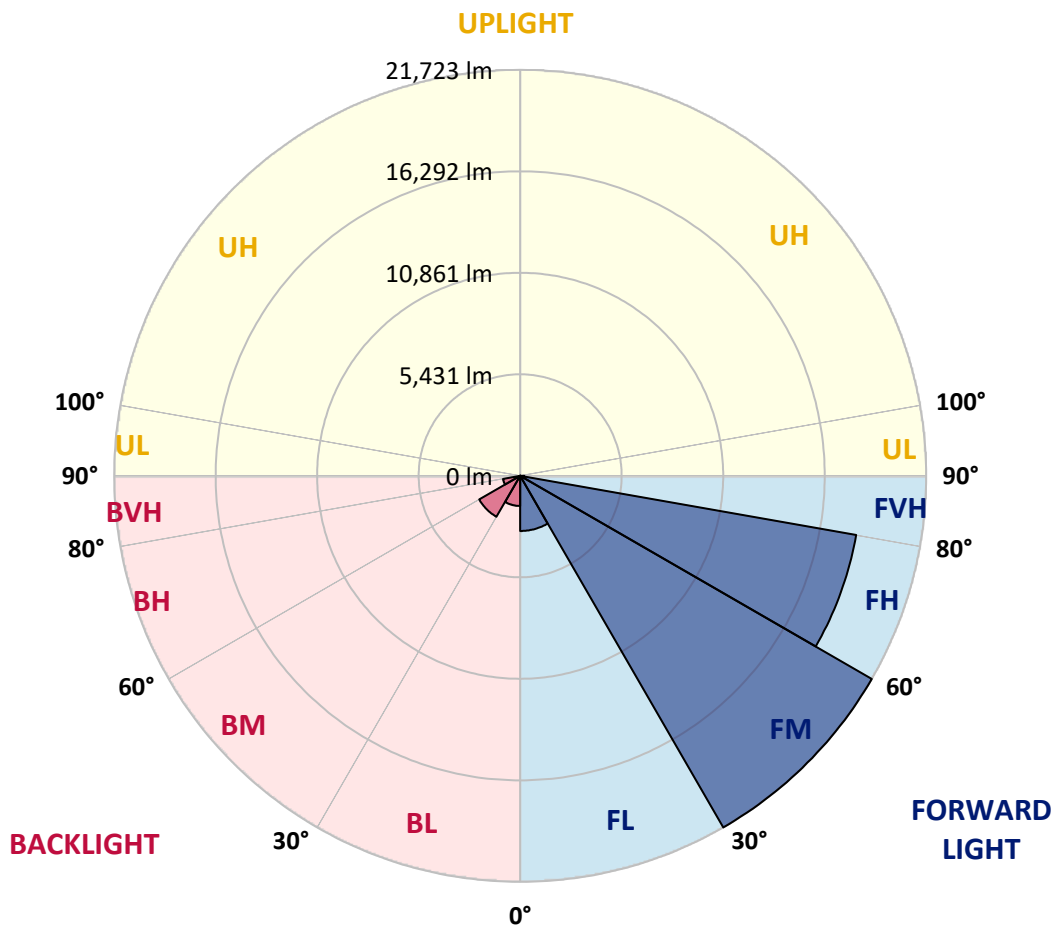
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.5	6.1			
FM (30°-60°)	21722.7	45.0			
FH (60°-80°)	18253.8	37.9			G5
FVH (80°-90°)	212.3	0.4			G2/225
BL (0°-30°)	1615.1	3.3	B3/2500		
BM (30°-60°)	2530.6	5.2	B3/5000		
BH (60°-80°)	932.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.9	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: P955788  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2
2.5°	7062.4	7126.3	7117.2	7159.8	7175.0	7236.0	7296.9	7379.1	7470.5	7467.4
5°	6663.4	6727.4	6742.6	6800.5	6873.6	6968.0	7092.8	7257.3	7427.8	7455.2
7.5°	6191.4	6258.4	6298.0	6413.7	6547.7	6742.6	6946.6	7187.2	7470.5	7510.0
10°	5719.3	5780.2	5832.0	5996.5	6209.6	6499.0	6830.9	7178.1	7558.8	7616.6
12.5°	5427.0	5484.8	5542.7	5685.8	5950.8	6304.1	6754.8	7220.7	7705.0	7787.2
15°	5323.4	5375.2	5420.9	5548.8	5795.5	6197.5	6739.6	7309.0	7890.7	8000.4
17.5°	5338.7	5366.1	5396.5	5494.0	5734.6	6148.7	6767.0	7461.3	8110.0	8207.5
20°	5427.0	5442.2	5445.2	5512.2	5725.4	6142.6	6821.8	7607.5	8317.1	8448.0
22.5°	5539.6	5545.7	5539.6	5585.3	5783.3	6188.3	6894.9	7784.1	8548.5	8670.4
25°	6066.5	5950.8	5804.6	5716.3	5880.7	6276.6	7004.5	8021.7	8801.3	8920.1
27.5°	7701.9	7370.0	6846.1	6258.4	6081.7	6404.6	7156.8	8262.3	9057.1	9163.7
30°	10357.5	9922.0	9032.8	7708.0	6727.4	6672.6	7354.7	8502.9	9328.2	9443.9
32.5°	13019.2	12912.7	11886.3	10053.0	8180.0	7269.5	7683.6	8828.7	9687.5	9778.9
35°	15711.4	15495.2	14654.6	12842.6	10418.4	8484.6	8231.8	9255.1	10159.6	10263.1
37.5°	17773.2	17642.2	17121.4	15629.2	13074.1	10360.6	9169.8	9915.9	10844.8	10960.5
40°	19594.3	19533.4	19356.8	18373.1	16043.4	12815.2	10628.6	10939.2	11795.0	11932.0
42.5°	21025.7	21168.8	21269.3	20995.2	19104.0	15617.0	12589.8	12376.7	13119.7	13259.8
45°	22490.6	22539.3	22944.3	23340.2	22143.4	18546.7	14800.8	14060.8	14767.3	14940.9
47.5°	23431.6	23626.5	24339.1	25036.5	24698.5	21452.1	17176.3	16049.5	16676.8	17002.7
50°	23501.6	23870.1	24850.8	26065.9	26559.3	24217.3	19758.8	18315.3	18982.2	19341.6
52.5°	22335.2	22907.8	24427.4	26206.0	27564.2	26559.3	22429.6	20581.1	21436.8	21905.8
55°	17124.5	17873.7	22834.7	25444.6	27603.8	28334.7	25030.4	22941.3	24171.6	24701.5
57.5°	14919.6	15297.2	17952.9	24122.9	26869.9	29050.4	27381.5	25188.8	27147.0	27804.8
60°	12413.2	12909.6	15056.6	21960.6	25874.0	29120.5	29458.5	28088.1	30372.1	31112.2
62.5°	8435.9	8974.9	11109.8	18245.2	24512.7	29087.0	31160.9	31072.6	33956.6	34751.5
65°	5226.0	5564.0	6971.0	14898.3	22609.3	29123.5	32942.5	34696.7	37739.1	38546.1
67.5°	4129.6	4284.9	5018.9	11438.7	19329.4	28301.2	34721.0	38104.5	41299.2	41938.7
70°	2774.4	2868.8	3651.5	7668.4	14380.6	24506.6	34687.5	39816.0	43132.5	43452.3
72.5°	1461.8	1534.9	2134.9	3551.0	8685.6	17419.9	29239.2	37769.5	41308.3	40827.1
75°	730.9	852.7	1437.4	1802.9	3709.3	9714.9	18156.9	29778.3	32513.1	30649.3
77.5°	554.3	670.0	1187.7	1187.7	1291.3	3270.8	7689.7	16241.3	14980.5	12474.1
80°	353.3	456.8	1038.5	898.4	539.0	831.4	2003.9	4549.9	3182.5	2421.1
82.5°	207.1	298.5	864.9	593.9	301.5	307.6	566.5	968.4	825.3	642.6
85°	82.2	194.9	593.9	234.5	118.8	76.1	170.5	207.1	170.5	127.9
87.5°	0.0	45.7	103.5	0.0	9.1	6.1	12.2	15.2	15.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955788  
 CATALOG NUMBER: GALN-SB8C-850-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7522.2	0°	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2	7522.2
7528.3	2.5°	7555.7	7561.8	7580.1	7583.1	7540.5	7485.7	7464.4	7455.2	7418.7	7415.6
7577.0	5°	7647.1	7674.5	7647.1	7567.9	7379.1	7114.1	6913.1	6748.7	6599.5	6553.8
7744.5	7.5°	7829.8	7857.2	7775.0	7464.4	6989.3	6462.4	5987.3	5652.3	5350.8	5238.2
7948.6	10°	8091.7	8128.3	7869.4	7242.0	6401.5	5554.9	4750.9	4184.4	3742.8	3563.2
8225.7	12.5°	8420.6	8435.9	7921.2	6904.0	5637.1	4428.1	3289.1	2683.0	2290.2	2144.0
8560.7	15°	8783.0	8761.7	7927.3	6444.1	4595.6	3130.7	2147.0	1763.3	1604.9	1556.2
8895.7	17.5°	9163.7	9075.4	7805.5	5780.2	3453.5	2140.9	1592.8	1501.4	1474.0	1461.8
9227.7	20°	9538.3	9340.4	7583.1	4912.3	2479.0	1598.9	1446.6	1419.2	1403.9	1397.9
9562.7	22.5°	9879.4	9541.4	7202.5	3904.3	1799.9	1413.1	1367.4	1343.0	1315.6	1303.4
9888.5	25°	10211.3	9657.1	6666.5	2963.2	1440.5	1321.7	1285.2	1239.5	1202.9	1187.7
10238.8	27.5°	10534.2	9730.2	5996.5	2192.7	1285.2	1236.4	1169.4	1105.5	1078.1	1072.0
10613.3	30°	10878.3	9754.5	5235.1	1635.4	1190.8	1129.9	1032.4	959.3	944.1	947.1
11118.9	32.5°	11298.6	9791.1	4467.7	1340.0	1111.6	1001.9	886.2	810.1	797.9	810.1
11855.9	35°	11801.1	9864.2	3727.6	1233.4	1041.5	871.0	746.1	682.2	670.0	679.1
12800.0	37.5°	12483.2	9982.9	3036.3	1212.1	983.7	761.4	627.4	575.6	575.6	578.6
13957.2	40°	13390.8	10299.7	2418.1	1196.9	953.2	679.1	529.9	508.6	517.7	523.8
15431.2	42.5°	14496.3	10972.7	2000.9	1178.6	919.7	642.6	481.2	472.0	487.3	493.4
17197.6	45°	15735.8	11825.4	1854.7	1148.1	889.3	667.0	459.9	447.7	466.0	469.0
19177.1	47.5°	17017.9	12659.9	1836.4	1114.6	858.8	703.5	453.8	426.4	447.7	450.7
21290.6	50°	18315.3	13205.0	1854.7	1062.9	810.1	703.5	456.8	405.0	423.3	432.5
23483.4	52.5°	19621.7	13454.7	1842.5	950.2	724.8	660.9	456.8	386.8	405.0	411.1
25852.7	55°	20888.7	13406.0	1656.7	782.7	615.2	584.7	444.6	371.5	383.7	386.8
28091.1	57.5°	21890.6	12726.9	1312.6	609.1	499.5	487.3	405.0	353.3	362.4	359.4
30143.7	60°	22414.4	11234.6	938.0	469.0	392.9	383.7	356.3	328.9	335.0	319.8
31882.7	62.5°	22420.5	9261.2	627.4	371.5	313.7	304.5	304.5	295.4	289.3	258.9
33228.8	65°	21942.4	7071.5	417.2	295.4	252.8	237.5	255.8	252.8	231.5	188.8
33639.9	67.5°	20858.2	4635.2	316.7	231.5	194.9	185.8	204.0	213.2	198.0	158.4
32141.5	70°	18628.9	2698.3	261.9	179.7	146.2	137.0	164.5	182.7	164.5	127.9
27472.9	72.5°	15473.9	1455.7	213.2	134.0	100.5	91.4	131.0	149.2	131.0	94.4
17627.0	75°	10040.8	779.6	164.5	88.3	51.8	57.9	97.5	109.6	91.4	60.9
5174.2	77.5°	3371.3	344.1	103.5	42.6	24.4	24.4	57.9	67.0	42.6	21.3
941.0	80°	752.2	143.1	42.6	18.3	9.1	9.1	12.2	12.2	6.1	0.0
289.3	82.5°	246.7	57.9	18.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
73.1	85°	94.4	21.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.4	87.5°	36.5	3.0	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°
7522.2
7421.7
6526.4
5192.5
3487.0
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1556.2
1458.8
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1300.4
1181.6
1065.9
947.1
807.0
676.1
575.6
523.8
493.4
472.0
453.8
435.5
411.1
386.8
359.4
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