

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: P955364

Luminaire Tested: **GALN-SB8B-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

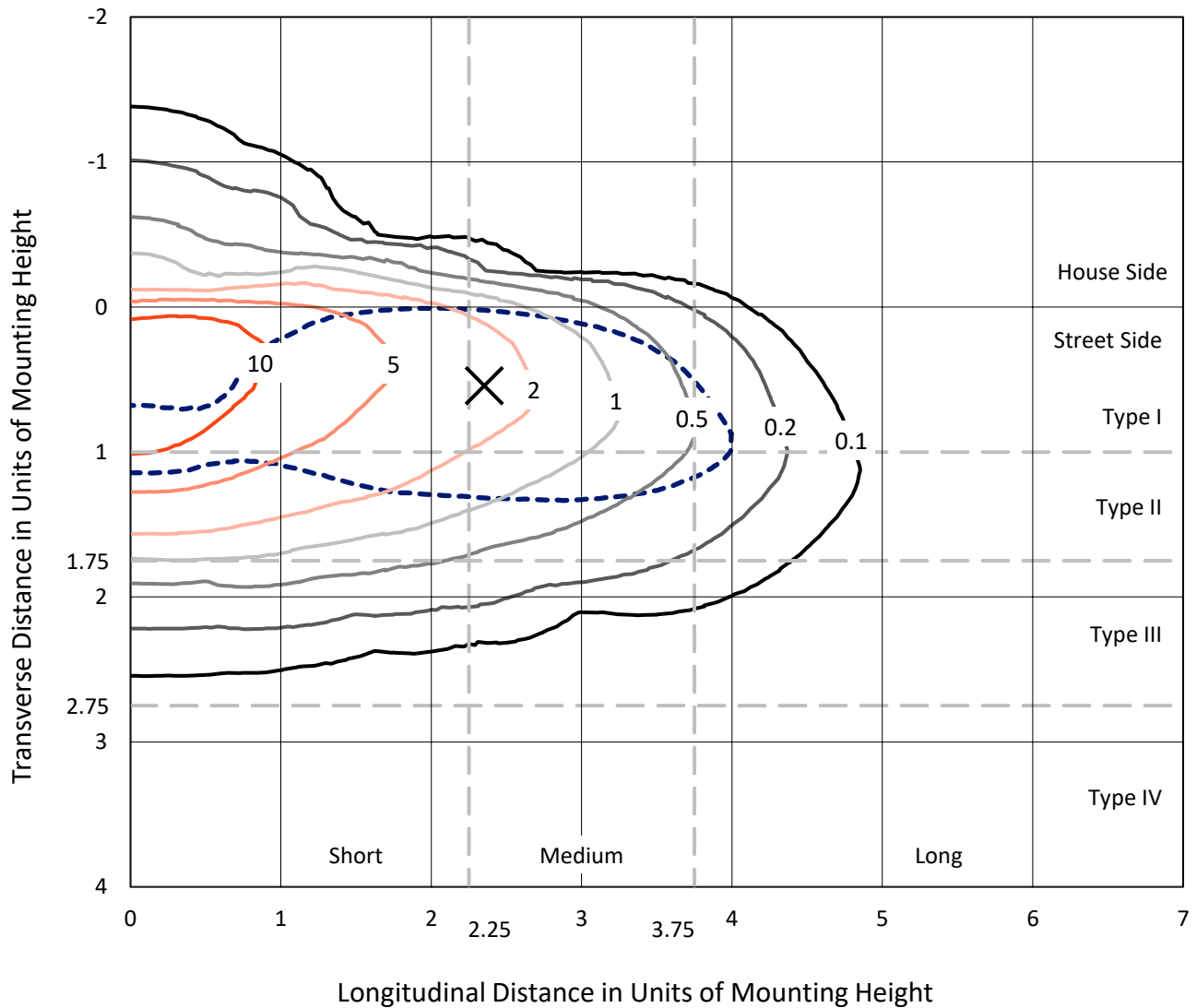
Lumens per Lamp: N/A  
Luminaire Lumens: 34641 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

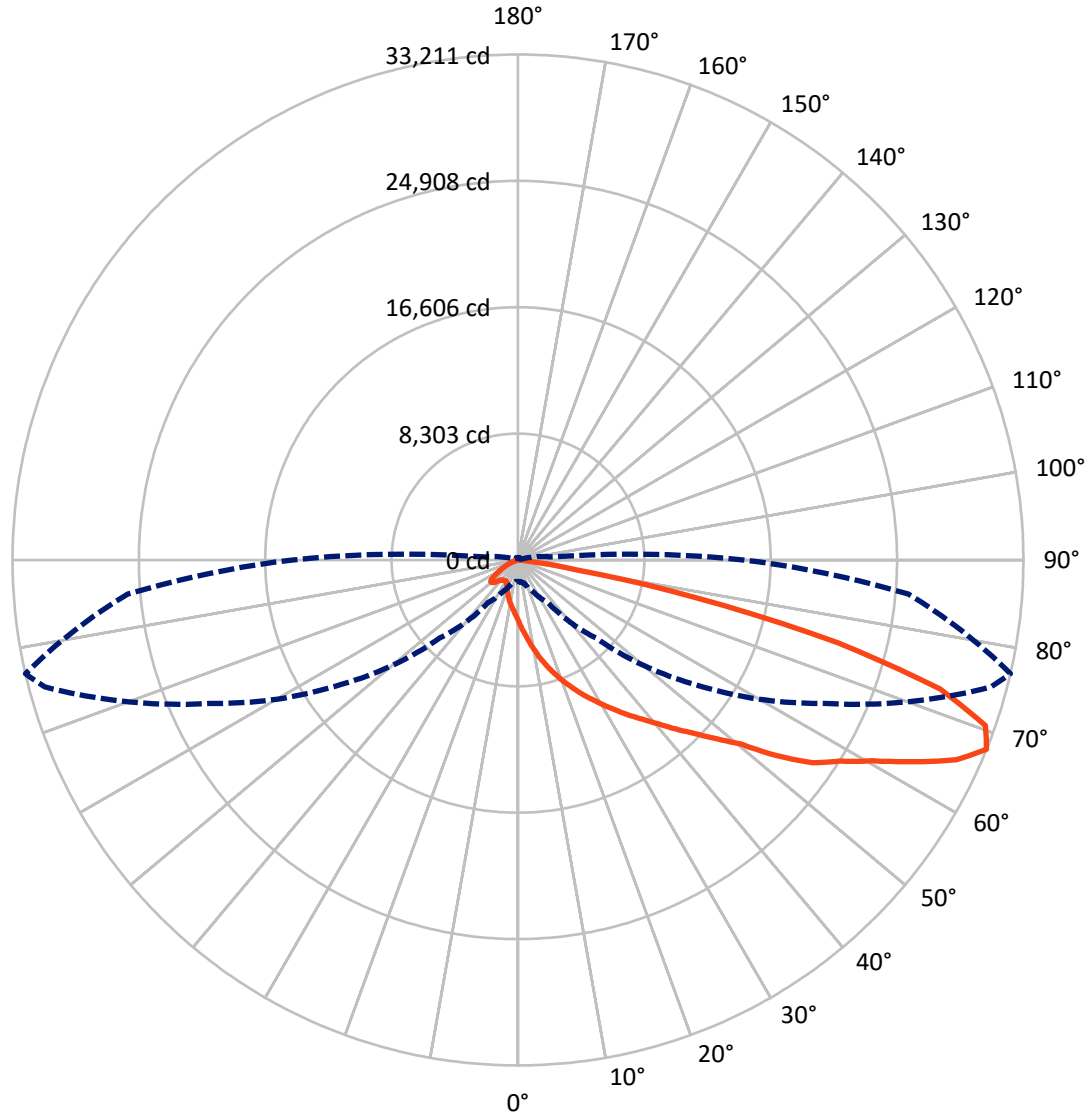
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB8B-830-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2548.6	0.0	2548.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	32092.5	0.0	32092.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	34641.0	0.0	34641.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.7	1.2
10°-20°	1427.8	4.1
20°-30°	2755.2	8.0
30°-40°	4783.2	13.8
40°-50°	6945.0	20.0
50°-60°	7975.4	23.0
60°-70°	6924.1	20.0
70°-80°	3261.3	9.4
80°-90°	161.3	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°	34641.0	100.0
0°-180°	34641.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955364

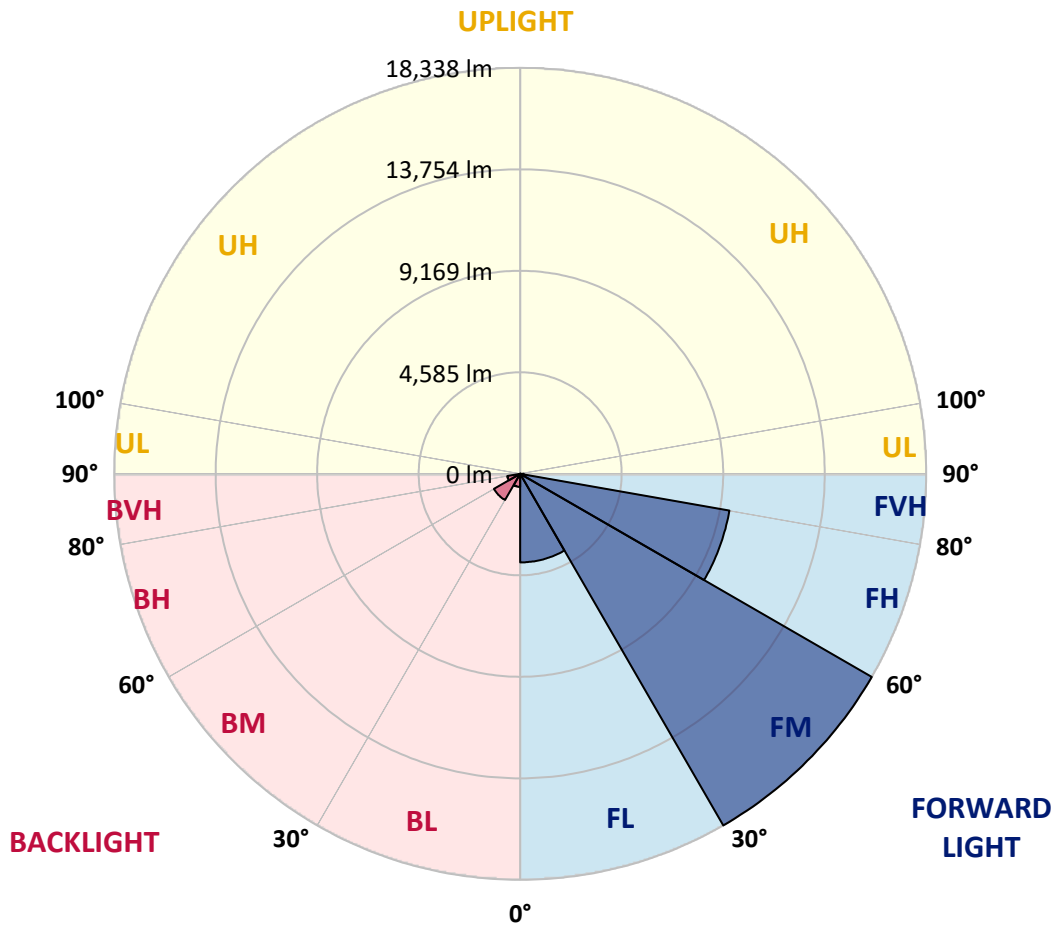
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4000.7	11.5			
FM (30°-60°)	18338.0	52.9			
FH (60°-80°)	9595.5	27.7			G4/12000
FVH (80°-90°)	158.3	0.5			G2/225
BL (0°-30°)	590.0	1.7	B2/1000		
BM (30°-60°)	1365.5	3.9	B2/2500		
BH (60°-80°)	590.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



REPORT NUMBER: P955364

CATALOG NUMBER: GALN-SB8B-830-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6
2.5°	5530.5	5564.9	5515.5	5420.8	5278.8	5186.3	4960.5	4747.5	4510.9	4435.6
5°	6741.6	6771.7	6715.8	6612.5	6423.2	6242.5	5945.7	5500.4	5037.9	4889.5
7.5°	7638.6	7655.8	7634.3	7539.7	7359.0	7154.6	6823.3	6296.3	5610.1	5446.6
10°	8283.9	8339.9	8333.4	8296.8	8176.4	8010.7	7658.0	7057.8	6251.1	6040.3
12.5°	8712.0	8774.4	8811.0	8892.7	8886.2	8780.8	8471.1	7836.5	6890.0	6642.6
15°	8836.8	8903.5	9043.3	9232.6	9400.4	9454.1	9236.9	8600.1	7593.4	7277.2
17.5°	8765.8	8869.0	9036.8	9335.8	9703.7	9946.7	9923.1	9338.0	8232.3	7870.9
20°	8922.8	9021.8	9153.0	9404.7	9832.7	10273.7	10450.1	10043.5	8866.9	8488.3
22.5°	9791.9	9774.7	9787.6	9828.4	10084.4	10521.1	10884.6	10684.6	9495.0	9107.8
25°	11168.6	11091.1	10959.9	10738.4	10673.8	10884.6	11263.2	11252.5	10157.6	9742.4
27.5°	12747.5	12734.6	12427.0	11893.5	11592.3	11510.6	11691.3	11805.3	10813.6	10370.5
30°	14259.7	14294.1	13879.0	13285.3	12732.4	12411.9	12248.4	12330.2	11480.5	11048.1
32.5°	15576.2	15612.8	15161.0	14466.2	13782.2	13395.0	13050.8	12848.6	12207.6	11736.5
35°	16688.3	16724.9	16206.5	15438.5	14709.3	14358.7	13969.3	13416.5	12938.9	12500.1
37.5°	17682.1	17671.4	16976.6	16202.2	15485.9	15208.4	15004.0	14115.6	13691.8	13268.1
40°	18269.4	18314.6	17720.9	16866.9	16172.1	15969.9	15957.0	14982.5	14560.9	14150.0
42.5°	18441.5	18521.1	18090.9	17389.6	16759.3	16539.9	16877.6	15920.4	15571.9	15171.8
45°	18131.7	18209.2	18013.4	17527.3	17159.4	17017.5	17669.2	16892.7	16651.8	16256.0
47.5°	17228.3	17325.1	17372.4	17269.1	17264.8	17409.0	18379.1	17916.6	17933.8	17529.4
50°	15479.4	15642.9	16077.4	16443.1	17008.8	17718.7	19069.6	19026.6	19379.4	19030.9
52.5°	12300.1	12532.4	14029.6	15029.8	16301.1	17660.6	19829.0	20807.7	21915.5	21405.7
55°	9884.4	9884.4	11101.9	12973.4	14920.1	17277.7	20160.2	21965.0	23642.9	23522.4
57.5°	8058.1	8154.9	8931.4	10585.6	12921.7	16365.7	20364.6	22692.1	25034.7	24946.5
60°	4973.4	5182.0	6649.1	8281.8	10648.0	14741.6	20235.5	23427.8	26723.3	26794.3
62.5°	2800.7	2878.2	3532.1	5958.6	8279.6	12558.2	19248.2	23838.6	28883.0	29184.1
65°	1933.9	1972.6	2224.3	3708.5	5739.2	9998.4	17318.6	23582.6	31047.0	31655.8
67.5°	1404.7	1424.0	1581.1	2265.1	3405.2	7249.3	14294.1	22292.0	32193.6	33211.0
70°	1079.9	1092.8	1206.8	1488.6	2011.3	4474.3	10381.3	19725.7	31363.2	32578.6
72.5°	877.7	890.6	978.8	1101.4	1333.7	2645.9	6292.0	16019.3	27697.7	29009.9
75°	740.0	757.2	836.8	916.4	1045.4	1699.4	2951.3	11155.7	20829.2	21689.7
77.5°	410.9	378.6	679.8	759.3	882.0	1075.6	1381.0	6565.2	11665.5	11904.3
80°	256.0	264.6	539.9	610.9	677.6	542.1	632.4	2527.6	4044.1	3841.9
82.5°	15.1	34.4	415.2	441.0	464.6	232.3	238.8	858.3	974.5	894.9
85°	0.0	0.0	189.3	152.7	161.3	66.7	68.8	200.1	131.2	142.0
87.5°	0.0	0.0	0.0	4.3	0.0	6.5	12.9	17.2	6.5	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955364  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3994.6	0°	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6	3994.6
4199.0	2.5°	4048.4	3897.8	3592.4	3293.4	3050.3	2824.4	2663.1	2510.3	2432.9	2428.6
4470.0	5°	4171.0	3854.8	3243.9	2703.9	2269.4	1920.9	1695.1	1533.7	1452.0	1424.0
4803.4	7.5°	4343.1	3867.7	2938.4	2187.7	1675.7	1376.7	1247.6	1196.0	1178.8	1159.4
5179.9	10°	4560.4	3897.8	2665.2	1761.8	1320.8	1170.2	1118.6	1097.1	1084.2	1071.3
5603.6	12.5°	4803.4	3925.8	2394.2	1462.8	1161.6	1084.2	1047.6	1021.8	1004.6	989.5
6038.2	15°	5040.1	3943.0	2112.4	1254.1	1079.9	1017.5	978.8	950.8	927.1	909.9
6464.1	17.5°	5274.5	3966.7	1847.8	1129.3	1013.2	950.8	912.1	877.7	858.3	838.9
6911.5	20°	5534.8	3962.3	1598.3	1041.1	946.5	884.1	843.2	811.0	791.6	770.1
7384.8	22.5°	5775.7	3940.8	1378.9	965.8	877.7	817.4	772.2	740.0	720.6	703.4
7868.8	25°	6053.2	3923.6	1196.0	897.0	813.1	752.9	703.4	673.3	651.8	636.7
8354.9	27.5°	6320.0	3897.8	1062.6	834.6	750.7	692.7	645.3	610.9	591.6	580.8
8856.1	30°	6582.4	3891.4	1013.2	774.4	694.8	636.7	589.4	557.1	542.1	537.8
9406.8	32.5°	6898.6	3908.6	1034.7	752.9	643.2	585.1	539.9	516.3	501.2	501.2
10019.9	35°	7236.3	3904.3	1067.0	772.2	608.8	533.5	499.1	484.0	468.9	468.9
10699.6	37.5°	7660.1	3910.7	1092.8	804.5	595.9	490.5	471.1	451.7	443.1	443.1
11443.9	40°	8292.5	4123.7	1079.9	832.5	591.6	460.3	421.6	415.2	408.7	408.7
12285.0	42.5°	9066.9	4586.2	1097.1	834.6	589.4	438.8	387.2	400.1	385.0	382.9
13233.6	45°	9914.5	5091.7	1206.8	789.5	587.3	428.1	370.0	385.0	361.4	361.4
14332.9	47.5°	10755.6	5592.9	1318.6	724.9	580.8	425.9	354.9	346.3	339.9	342.0
15765.5	50°	11915.0	6001.6	1361.7	636.7	565.7	421.6	327.0	329.1	324.8	329.1
17785.4	52.5°	13177.7	6087.6	1310.0	537.8	522.7	408.7	307.6	316.2	314.1	318.4
19207.3	55°	13965.0	5995.2	1082.0	447.4	456.0	357.1	288.2	305.5	305.5	305.5
20596.9	57.5°	14778.1	5601.5	767.9	363.5	378.6	292.6	271.0	294.7	292.6	290.4
22270.5	60°	15363.2	4964.8	505.5	299.0	301.2	240.9	251.7	277.5	275.3	264.6
23995.7	62.5°	15799.9	4261.4	324.8	253.8	230.2	217.3	230.2	251.7	243.1	219.4
25458.4	65°	15750.4	3286.9	249.5	217.3	189.3	189.3	200.1	219.4	193.6	154.9
<b>25738.1</b>	<b>67.5°</b>	<b>14831.9</b>	<b>2224.3</b>	<b>206.5</b>	<b>182.8</b>	<b>159.2</b>	<b>157.0</b>	<b>165.6</b>	<b>182.8</b>	<b>165.6</b>	<b>131.2</b>
24305.4	70°	13190.6	1454.2	165.6	142.0	126.9	116.2	133.4	157.0	139.8	105.4
20691.6	72.5°	10706.1	886.3	124.8	103.3	92.5	75.3	105.4	129.1	111.9	77.4
14388.8	75°	6926.6	451.7	86.0	66.7	49.5	45.2	77.4	96.8	77.4	47.3
6384.5	77.5°	2650.2	189.3	47.3	30.1	25.8	21.5	43.0	58.1	32.3	10.8
1236.9	80°	509.8	79.6	23.7	15.1	12.9	8.6	6.5	4.3	0.0	0.0
219.4	82.5°	88.2	25.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
43.0	85°	30.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.1	87.5°	10.8	0.0	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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<u>180°</u>
3994.6
2424.3
1419.7
1155.1
1067.0
985.2
907.8
836.8
767.9
701.3
634.6
580.8
535.6
501.2
468.9
443.1
408.7
380.7
361.4
342.0
329.1
318.4
305.5
290.4
264.6
215.1
150.6
126.9
101.1
73.1
40.9
8.6
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