

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: P953579

Luminaire Tested: **GALN-SB7A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953579
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-SB7A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA 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: 24270 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

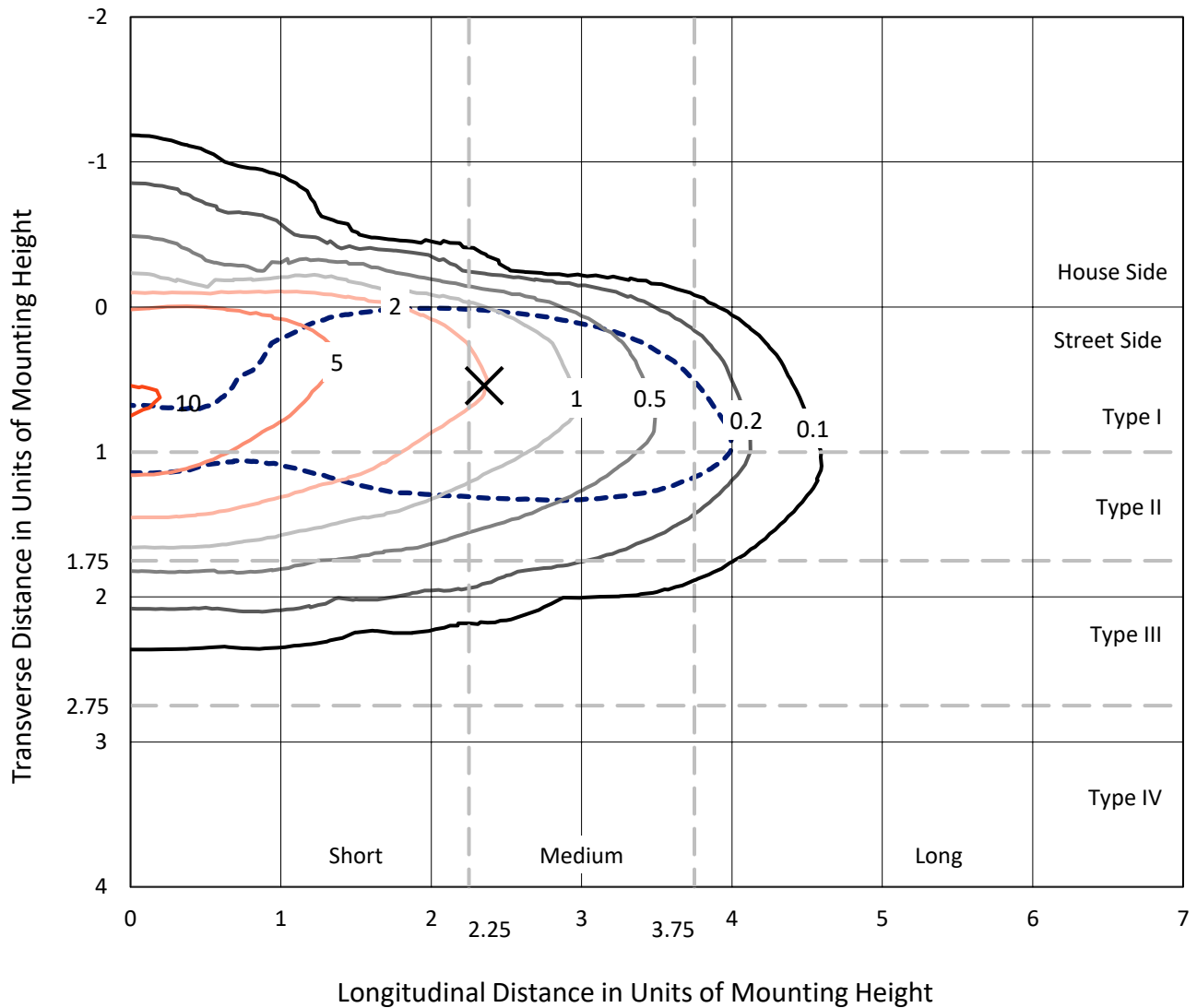
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

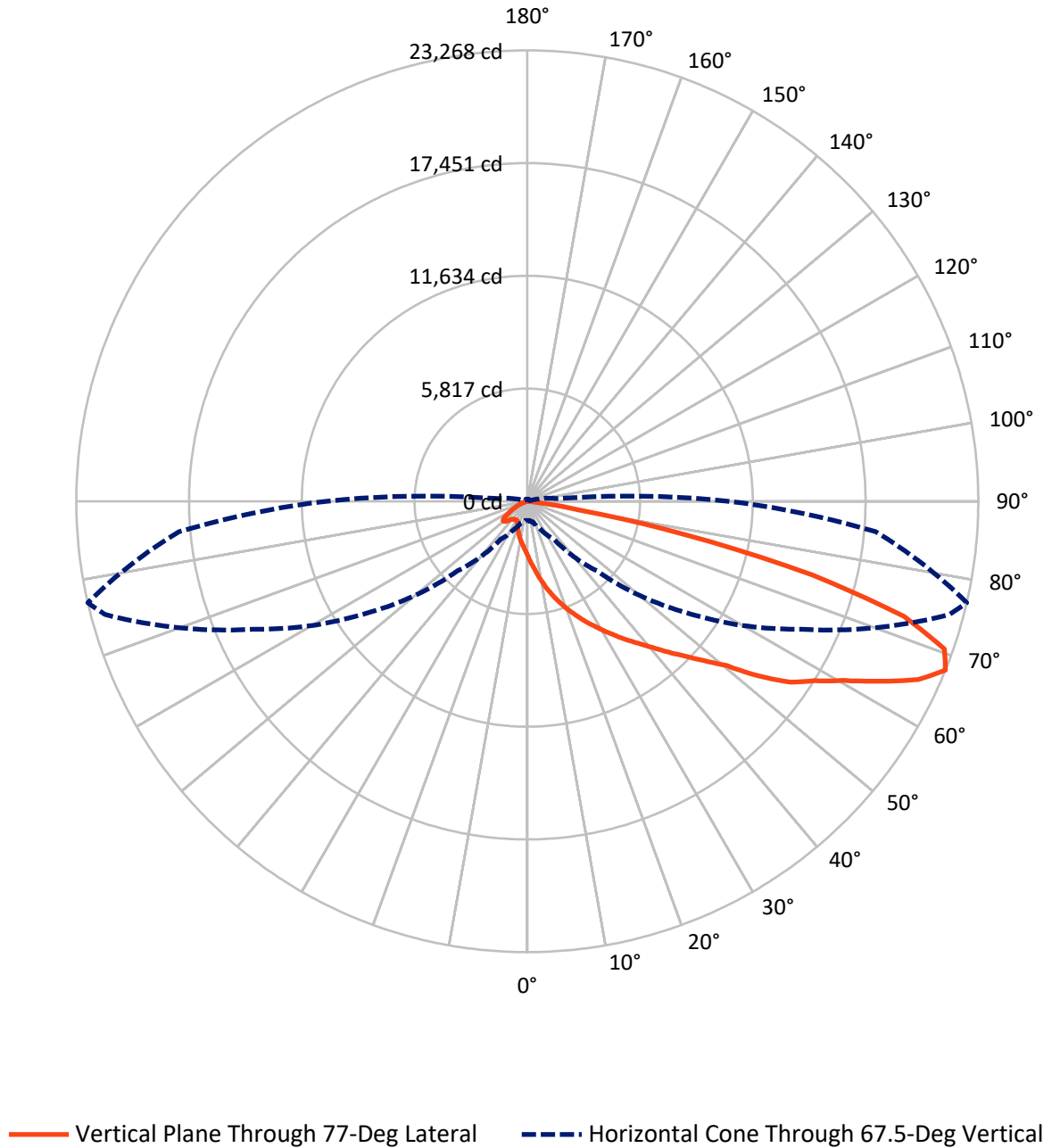
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.5	0.0	1785.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22484.4	0.0	22484.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	24270.0	0.0	24270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.2
10°-20°	1000.3	4.1
20°-30°	1930.3	8.0
30°-40°	3351.2	13.8
40°-50°	4865.7	20.0
50°-60°	5587.7	23.0
60°-70°	4851.1	20.0
70°-80°	2284.9	9.4
80°-90°	113.0	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°	24270.0	100.0
0°-180°	24270.0	100.0

Coefficient of Utilization



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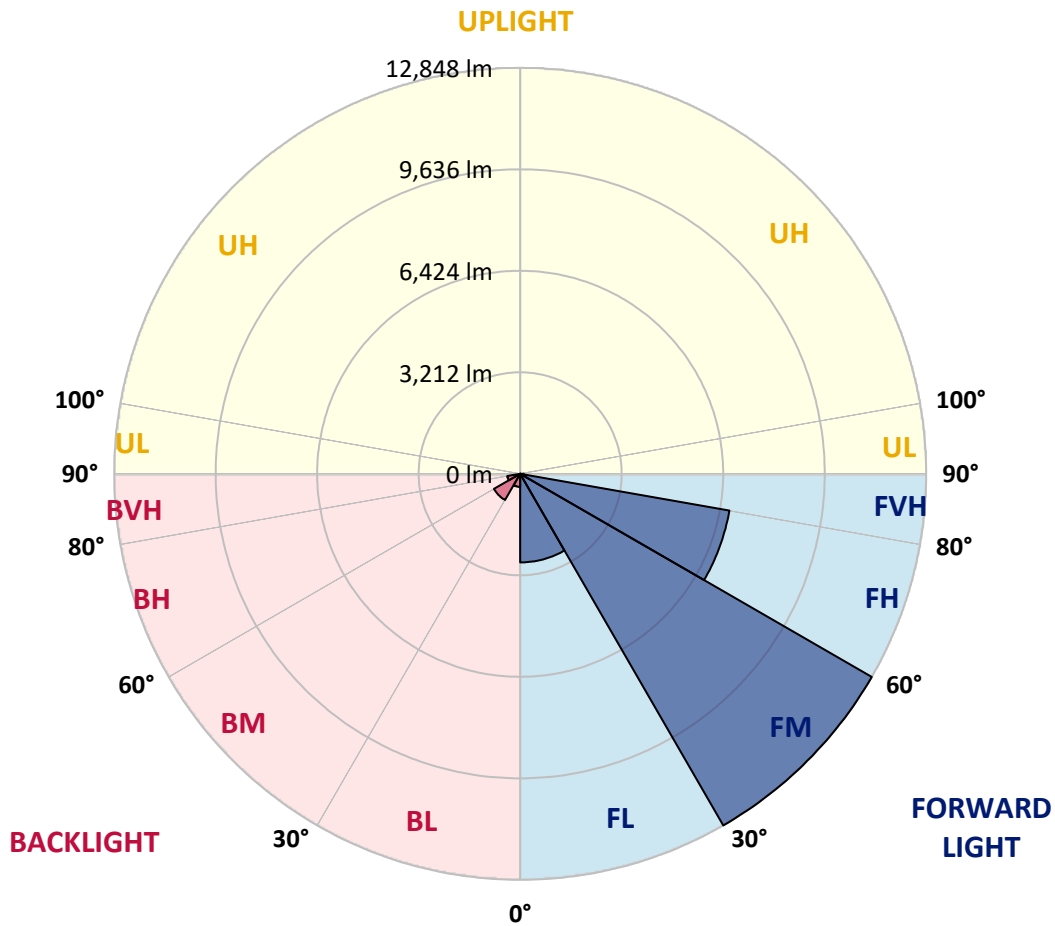
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.9	11.5			
FM (30°-60°)	12847.9	52.9			
FH (60°-80°)	6722.7	27.7			G3/7500
FVH (80°-90°)	110.9	0.5			G2/225
BL (0°-30°)	413.4	1.7	B1/500		
BM (30°-60°)	956.7	3.9	B1/1000		
BH (60°-80°)	413.4	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7
2.5°	3874.8	3898.9	3864.2	3797.9	3698.4	3633.6	3475.4	3326.2	3160.4	3107.6
5°	4723.3	4744.4	4705.2	4632.8	4500.2	4373.6	4165.6	3853.7	3529.6	3425.6
7.5°	5351.7	5363.8	5348.7	5282.4	5155.8	5012.6	4780.5	4411.3	3930.5	3816.0
10°	5803.8	5843.0	5838.5	5812.9	5728.5	5612.4	5365.3	4944.8	4379.6	4231.9
12.5°	6103.8	6147.5	6173.1	6230.4	6225.8	6152.0	5935.0	5490.4	4827.2	4653.9
15°	6191.2	6237.9	6335.9	6468.5	6586.0	6623.7	6471.5	6025.4	5320.1	5098.5
17.5°	6141.4	6213.8	6331.3	6540.8	6798.5	6968.8	6952.3	6542.3	5767.7	5514.5
20°	6251.5	6320.8	6412.7	6589.0	6889.0	7197.9	7321.5	7036.7	6212.3	5947.0
22.5°	6860.3	6848.3	6857.3	6885.9	7065.3	7371.2	7625.9	7485.8	6652.3	6381.1
25°	7824.9	7770.6	7678.7	7523.5	7478.2	7625.9	7891.2	7883.6	7116.5	6825.7
27.5°	8931.1	8922.0	8706.5	8332.8	8121.8	8064.5	8191.1	8271.0	7576.2	7265.7
30°	9990.6	10014.7	9723.8	9307.9	8920.5	8696.0	8581.4	8638.7	8043.4	7740.5
32.5°	10912.9	10938.5	10622.1	10135.3	9656.0	9384.7	9143.6	9001.9	8552.8	8222.7
35°	11692.1	11717.7	11354.5	10816.5	10305.6	10059.9	9787.1	9399.8	9065.2	8757.8
37.5°	12388.4	12380.8	11894.0	11351.5	10849.6	10655.2	10512.0	9889.6	9592.7	9295.8
40°	12799.8	12831.5	12415.5	11817.2	11330.4	11188.7	11179.7	10497.0	10201.6	9913.7
42.5°	12920.4	12976.1	12674.7	12183.4	11741.8	11588.1	11824.7	11154.1	10909.9	10629.6
45°	12703.4	12757.6	12620.5	12279.9	12022.1	11922.7	12379.3	11835.3	11666.5	11389.2
47.5°	12070.4	12138.2	12171.4	12099.0	12096.0	12197.0	12876.7	12552.6	12564.7	12281.4
50°	10845.1	10959.6	11264.1	11520.3	11916.7	12414.0	13360.5	13330.3	13577.5	13333.3
52.5°	8617.6	8780.4	9829.3	10530.1	11420.8	12373.3	13892.5	14578.2	15354.4	14997.2
55°	6925.1	6925.1	7778.2	9089.3	10453.3	12105.0	14124.6	15389.0	16564.6	16480.2
57.5°	5645.6	5713.4	6257.5	7416.4	9053.2	11466.0	14267.7	15898.4	17539.6	17477.9
60°	3484.4	3630.6	4658.5	5802.3	7460.2	10328.2	14177.3	16413.8	18722.7	18772.5
62.5°	1962.2	2016.5	2474.7	4174.7	5800.8	8798.5	13485.5	16701.7	20235.9	20446.8
65°	1354.9	1382.0	1558.3	2598.2	4020.9	7005.0	12133.7	16522.4	21752.0	22178.5
67.5°	984.1	997.7	1107.7	1587.0	2385.7	5078.9	10014.7	15618.1	22555.3	23268.1
70°	756.6	765.6	845.5	1042.9	1409.1	3134.8	7273.3	13820.1	21973.5	22825.1
72.5°	614.9	623.9	685.7	771.6	934.4	1853.7	4408.3	11223.4	19405.4	20324.8
75°	518.4	530.5	586.3	642.0	732.5	1190.6	2067.7	7815.8	14593.3	15196.1
77.5°	287.9	265.2	476.2	532.0	617.9	753.6	967.6	4599.7	8173.0	8340.3
80°	179.3	185.4	378.3	428.0	474.7	379.8	443.1	1770.8	2833.4	2691.7
82.5°	10.5	24.1	290.9	309.0	325.5	162.8	167.3	601.3	682.7	627.0
85°	0.0	0.0	132.6	107.0	113.0	46.7	48.2	140.2	91.9	99.5
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	9.0	12.1	4.5	6.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2798.7	0°	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7	2798.7
2941.9	2.5°	2836.4	2730.9	2516.9	2307.4	2137.1	1978.8	1865.8	1758.8	1704.5	1701.5
3131.8	5°	2922.3	2700.7	2272.7	1894.4	1590.0	1345.8	1187.6	1074.6	1017.3	997.7
3365.4	7.5°	3042.8	2709.8	2058.7	1532.7	1174.0	964.5	874.1	837.9	825.9	812.3
3629.1	10°	3195.1	2730.9	1867.3	1234.3	925.4	819.9	783.7	768.6	759.6	750.5
3926.0	12.5°	3365.4	2750.5	1677.4	1024.8	813.8	759.6	734.0	715.9	703.8	693.3
4230.4	15°	3531.1	2762.5	1480.0	878.6	756.6	712.9	685.7	666.1	649.6	637.5
4528.8	17.5°	3695.4	2779.1	1294.6	791.2	709.8	666.1	639.0	614.9	601.3	587.8
4842.3	20°	3877.8	2776.1	1119.8	729.4	663.1	619.4	590.8	568.2	554.6	539.5
5173.9	22.5°	4046.6	2761.0	966.1	676.7	614.9	572.7	541.0	518.4	504.9	492.8
5513.0	25°	4241.0	2749.0	837.9	628.5	569.7	527.5	492.8	471.7	456.7	446.1
5853.6	27.5°	4427.9	2730.9	744.5	584.8	526.0	485.3	452.1	428.0	414.5	406.9
6204.7	30°	4611.7	2726.3	709.8	542.6	486.8	446.1	412.9	390.3	379.8	376.8
6590.6	32.5°	4833.3	2738.4	724.9	527.5	450.6	409.9	378.3	361.7	351.2	351.2
7020.1	35°	5069.9	2735.4	747.5	541.0	426.5	373.8	349.6	339.1	328.5	328.5
7496.3	37.5°	5366.8	2739.9	765.6	563.7	417.5	343.6	330.1	316.5	310.5	310.5
8017.8	40°	5809.9	2889.1	756.6	583.2	414.5	322.5	295.4	290.9	286.3	286.3
8607.1	42.5°	6352.4	3213.1	768.6	584.8	412.9	307.4	271.3	280.3	269.8	268.3
9271.7	45°	6946.2	3567.3	845.5	553.1	411.4	299.9	259.2	269.8	253.2	253.2
10041.8	47.5°	7535.5	3918.5	923.9	507.9	406.9	298.4	248.7	242.6	238.1	239.6
11045.5	50°	8347.8	4204.8	954.0	446.1	396.4	295.4	229.1	230.6	227.6	230.6
12460.7	52.5°	9232.5	4265.1	917.8	376.8	366.2	286.3	215.5	221.5	220.0	223.1
13456.9	55°	9784.1	4200.3	758.1	313.5	319.5	250.2	202.0	214.0	214.0	214.0
14430.5	57.5°	10353.8	3924.5	538.0	254.7	265.2	205.0	189.9	206.5	205.0	203.5
15603.0	60°	10763.7	3478.4	354.2	209.5	211.0	168.8	176.3	194.4	192.9	185.4
16811.7	62.5°	11069.7	2985.6	227.6	177.8	161.3	152.2	161.3	176.3	170.3	153.7
17836.5	65°	11035.0	2302.9	174.8	152.2	132.6	132.6	140.2	153.7	135.6	108.5
18032.5	67.5°	10391.5	1558.3	144.7	128.1	111.5	110.0	116.0	128.1	116.0	91.9
17028.7	70°	9241.5	1018.8	116.0	99.5	88.9	81.4	93.4	110.0	98.0	73.8
14496.8	72.5°	7500.8	620.9	87.4	72.3	64.8	52.7	73.8	90.4	78.4	54.3
10081.0	75°	4852.9	316.5	60.3	46.7	34.7	31.6	54.3	67.8	54.3	33.2
4473.1	77.5°	1856.7	132.6	33.2	21.1	18.1	15.1	30.1	40.7	22.6	7.5
866.6	80°	357.2	55.8	16.6	10.5	9.0	6.0	4.5	3.0	0.0	0.0
153.7	82.5°	61.8	18.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
30.1	85°	21.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.5	87.5°	7.5	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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180°
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2798.7
1698.5
994.7
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586.3
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491.3
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375.3
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328.5
310.5
286.3
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