

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: P953936

Luminaire Tested: **GALN-SB7B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953936
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-SB7B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 30467 lumens
Efficiency: N/A
Efficacy: 118.7 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

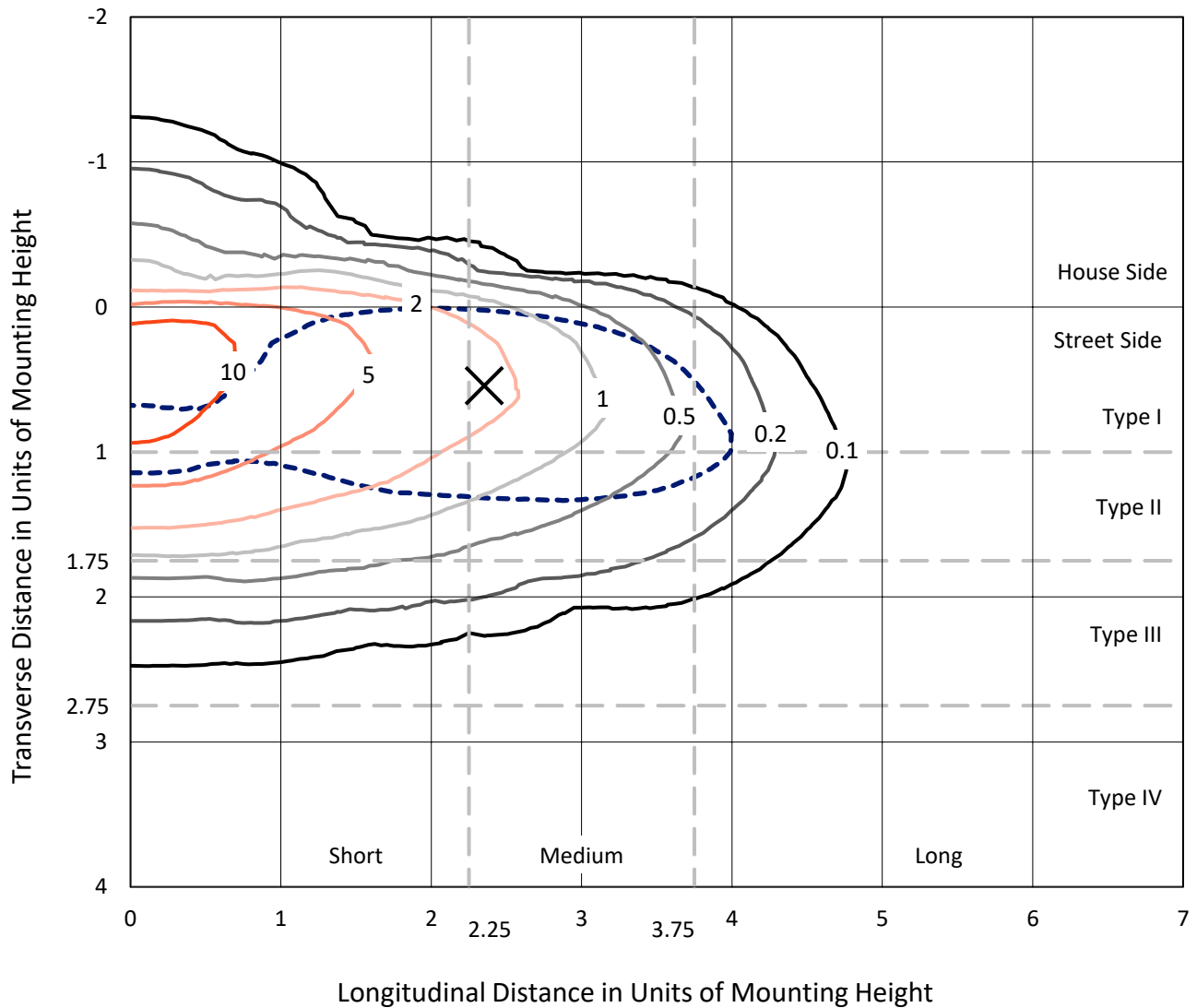
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

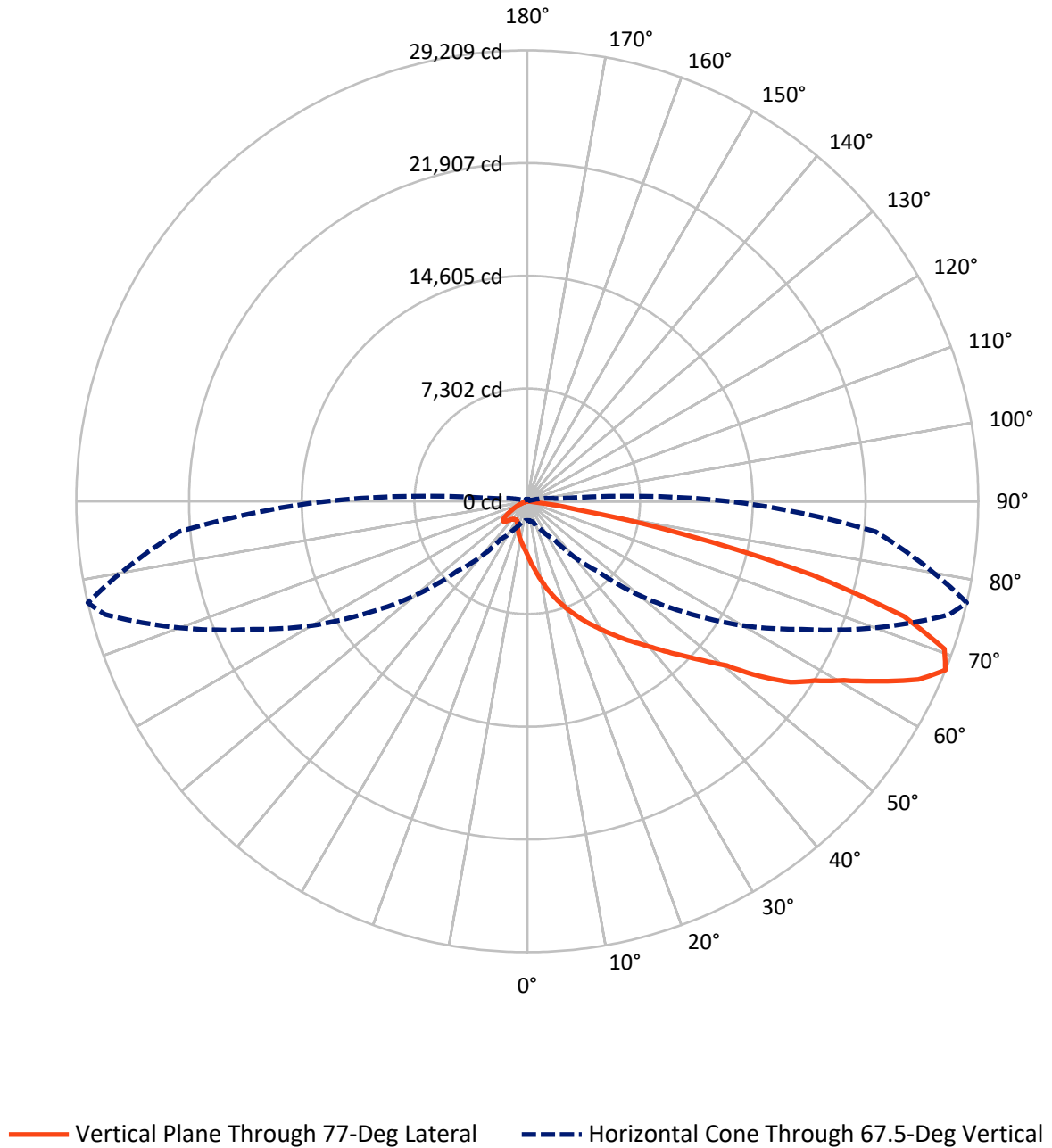
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	2241.5	0.0	2241.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28225.5	0.0	28225.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	30467.0	0.0	30467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.6	1.2
10°-20°	1255.7	4.1
20°-30°	2423.2	8.0
30°-40°	4206.9	13.8
40°-50°	6108.1	20.0
50°-60°	7014.4	23.0
60°-70°	6089.8	20.0
70°-80°	2868.4	9.4
80°-90°	141.9	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°	30467.0	100.0
0°-180°	30467.0	100.0

Coefficient of Utilization



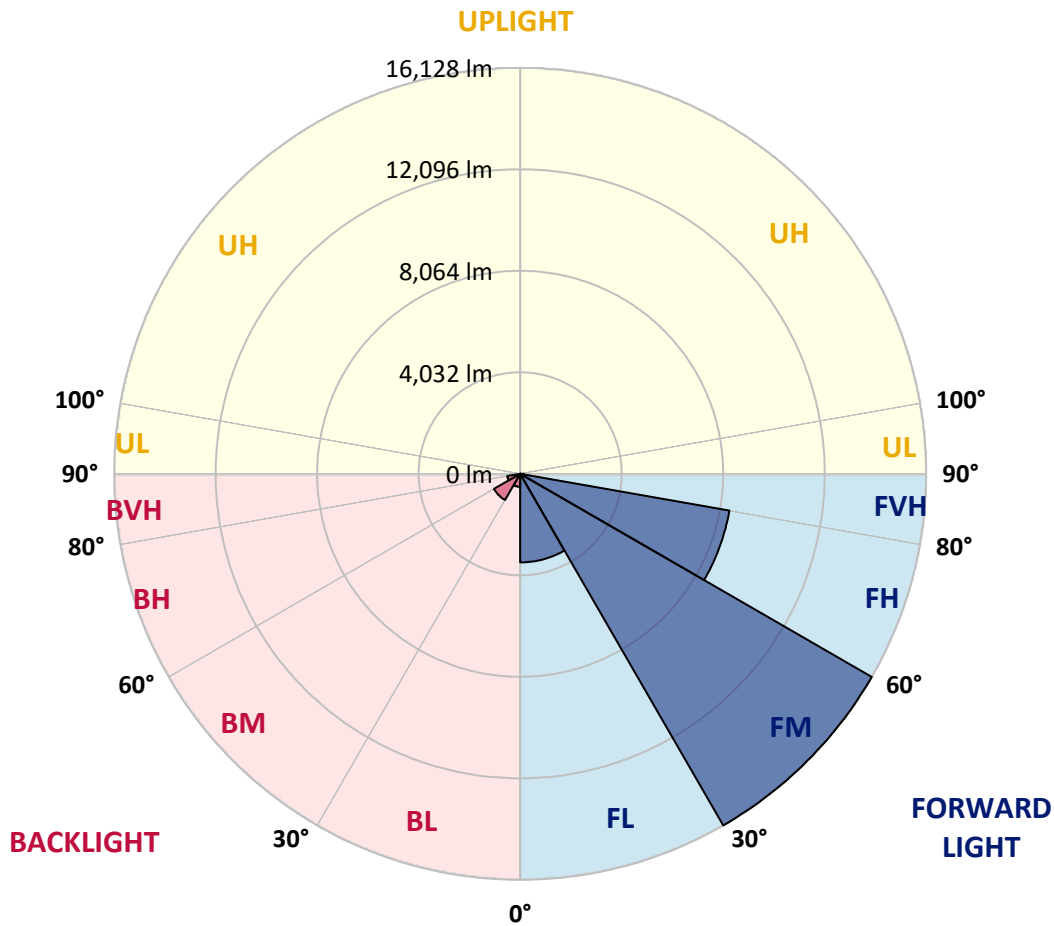
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3518.6	11.5			
FM (30°-60°)	16128.4	52.9			
FH (60°-80°)	8439.3	27.7			G4/12000
FVH (80°-90°)	139.2	0.5			G2/225
BL (0°-30°)	518.9	1.7	B2/1000		
BM (30°-60°)	1201.0	3.9	B2/2500		
BH (60°-80°)	518.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3
2.5°	4864.1	4894.4	4850.9	4767.6	4642.8	4561.4	4362.8	4175.5	3967.4	3901.1
5°	5929.3	5955.8	5906.6	5815.8	5649.3	5490.3	5229.3	4837.6	4430.9	4300.3
7.5°	6718.2	6733.3	6714.4	6631.2	6472.3	6292.5	6001.2	5537.6	4934.1	4790.3
10°	7285.8	7335.0	7329.3	7297.1	7191.2	7045.5	6735.2	6207.4	5497.9	5312.5
12.5°	7662.3	7717.1	7749.3	7821.2	7815.5	7722.8	7450.4	6892.3	6059.8	5842.2
15°	7772.0	7830.7	7953.6	8120.1	8267.7	8315.0	8123.9	7563.9	6678.5	6400.4
17.5°	7709.6	7800.4	7948.0	8210.9	8534.4	8748.2	8727.4	8212.8	7240.4	6922.5
20°	7847.7	7934.7	8050.1	8271.5	8648.0	9035.8	9190.9	8833.4	7798.5	7465.5
22.5°	8612.0	8596.9	8608.2	8644.2	8869.3	9253.4	9573.1	9397.2	8350.9	8010.4
25°	9822.8	9754.7	9639.3	9444.5	9387.7	9573.1	9906.1	9896.6	8933.6	8568.5
27.5°	11211.5	11200.2	10929.6	10460.4	10195.5	10123.7	10282.6	10382.8	9510.7	9120.9
30°	12541.5	12571.8	12206.7	11684.5	11198.3	10916.4	10772.6	10844.5	10097.2	9716.9
32.5°	13699.4	13731.5	13334.2	12723.2	12121.5	11781.0	11478.3	11300.4	10736.6	10322.3
35°	14677.5	14709.7	14253.7	13578.3	12936.9	12628.6	12286.1	11799.9	11379.9	10993.9
37.5°	15551.6	15542.1	14931.0	14249.9	13619.9	13375.9	13196.1	12414.8	12042.1	11669.4
40°	16068.1	16107.8	15585.6	14834.5	14223.4	14045.6	14034.3	13177.2	12806.4	12445.0
42.5°	16219.4	16289.4	15911.0	15294.3	14739.9	14547.0	14844.0	14002.1	13695.6	13343.7
45°	15947.0	16015.1	15842.9	15415.4	15091.8	14967.0	15540.2	14857.2	14645.3	14297.2
47.5°	15152.4	15237.5	15279.1	15188.3	15184.5	15311.3	16164.6	15757.8	15772.9	15417.2
50°	13614.2	13758.0	14140.2	14461.8	14959.4	15583.7	16771.9	16734.0	17044.3	16737.8
52.5°	10818.0	11022.3	12339.1	13218.8	14337.0	15532.7	17439.7	18300.5	19274.9	18826.5
55°	8693.4	8693.4	9764.2	11410.2	13122.3	15195.9	17731.1	19318.4	20794.1	20688.1
57.5°	7087.1	7172.3	7855.2	9310.1	11364.8	14393.7	17910.8	19957.8	22018.1	21940.6
60°	4374.1	4557.6	5847.9	7283.9	9365.0	12965.3	17797.3	20604.9	23503.3	23565.7
62.5°	2463.3	2531.4	3106.5	5240.6	7282.0	11045.0	16928.9	20966.2	25402.8	25667.7
65°	1700.8	1734.9	1956.2	3261.7	5047.6	8793.6	15231.8	20741.1	27306.1	27841.5
67.5°	1235.4	1252.5	1390.6	1992.2	2994.9	6375.8	12571.8	19606.0	28314.5	29209.3
70°	949.7	961.1	1061.4	1309.2	1768.9	3935.2	9130.4	17348.9	27584.2	28653.1
72.5°	771.9	783.3	860.8	968.7	1173.0	2327.1	5533.9	14089.1	24360.3	25514.4
75°	650.8	666.0	736.0	806.0	919.5	1494.6	2595.7	9811.5	18319.4	19076.2
77.5°	361.4	333.0	597.8	667.8	775.7	946.0	1214.6	5774.1	10259.9	10469.9
80°	225.1	232.7	474.9	537.3	596.0	476.8	556.2	2223.0	3556.8	3379.0
82.5°	13.2	30.3	365.1	387.8	408.7	204.3	210.0	754.9	857.0	787.0
85°	0.0	0.0	166.5	134.3	141.9	58.6	60.5	175.9	115.4	124.9
87.5°	0.0	0.0	0.0	3.8	0.0	5.7	11.4	15.1	5.7	7.6
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°
3513.3	0°	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3	3513.3
3693.0	2.5°	3560.6	3428.2	3159.5	2896.5	2682.7	2484.1	2342.2	2207.9	2139.8	2136.0
3931.4	5°	3668.4	3390.3	2853.0	2378.1	1996.0	1689.5	1490.8	1348.9	1277.0	1252.5
4224.7	7.5°	3819.8	3401.7	2584.4	1924.1	1473.8	1210.8	1097.3	1051.9	1036.8	1019.7
4555.7	10°	4010.9	3428.2	2344.1	1549.5	1161.6	1029.2	983.8	964.9	953.5	942.2
4928.4	12.5°	4224.7	3452.8	2105.7	1286.5	1021.6	953.5	921.4	898.7	883.5	870.3
5310.6	15°	4432.8	3467.9	1857.9	1103.0	949.7	894.9	860.8	836.2	815.4	800.3
5685.2	17.5°	4639.0	3488.7	1625.2	993.3	891.1	836.2	802.2	771.9	754.9	737.8
6078.7	20°	4867.9	3484.9	1405.7	915.7	832.4	777.6	741.6	713.3	696.2	677.3
6495.0	22.5°	5079.8	3466.0	1212.7	849.5	771.9	718.9	679.2	650.8	633.8	618.7
6920.6	25°	5323.9	3450.9	1051.9	788.9	715.1	662.2	618.7	592.2	573.3	560.0
7348.2	27.5°	5558.5	3428.2	934.6	734.1	660.3	609.2	567.6	537.3	520.3	510.8
7789.0	30°	5789.3	3422.5	891.1	681.1	611.1	560.0	518.4	490.0	476.8	473.0
8273.4	32.5°	6067.4	3437.6	910.0	662.2	565.7	514.6	474.9	454.1	440.8	440.8
8812.6	35°	6364.4	3433.8	938.4	679.2	535.4	469.2	438.9	425.7	412.4	412.4
9410.4	37.5°	6737.1	3439.5	961.1	707.6	524.1	431.4	414.3	397.3	389.7	389.7
10065.0	40°	7293.3	3626.8	949.7	732.2	520.3	404.9	370.8	365.1	359.5	359.5
10804.7	42.5°	7974.4	4033.6	964.9	734.1	518.4	386.0	340.5	351.9	338.7	336.8
11639.1	45°	8719.9	4478.2	1061.4	694.3	516.5	376.5	325.4	338.7	317.8	317.8
12605.9	47.5°	9459.6	4919.0	1159.7	637.6	510.8	374.6	312.2	304.6	298.9	300.8
13865.9	50°	10479.3	5278.5	1197.6	560.0	497.6	370.8	287.6	289.5	285.7	289.5
15642.4	52.5°	11589.9	5354.1	1152.2	473.0	459.7	359.5	270.5	278.1	276.2	280.0
16892.9	55°	12282.3	5272.8	951.6	393.5	401.1	314.1	253.5	268.7	268.7	268.7
18115.1	57.5°	12997.5	4926.6	675.4	319.7	333.0	257.3	238.4	259.2	257.3	255.4
19587.0	60°	13512.1	4366.5	444.6	263.0	264.9	211.9	221.4	244.1	242.2	232.7
21104.4	62.5°	13896.1	3747.9	285.7	223.2	202.4	191.1	202.4	221.4	213.8	193.0
22390.9	65°	13852.6	2890.9	219.5	191.1	166.5	166.5	175.9	193.0	170.3	136.2
22636.8	67.5°	13044.8	1956.2	181.6	160.8	140.0	138.1	145.7	160.8	145.7	115.4
21376.8	70°	11601.2	1278.9	145.7	124.9	111.6	102.2	117.3	138.1	123.0	92.7
18198.4	72.5°	9416.1	779.5	109.7	90.8	81.4	66.2	92.7	113.5	98.4	68.1
12655.0	75°	6092.0	397.3	75.7	58.6	43.5	39.7	68.1	85.1	68.1	41.6
5615.2	77.5°	2330.8	166.5	41.6	26.5	22.7	18.9	37.8	51.1	28.4	9.5
1087.9	80°	448.4	70.0	20.8	13.2	11.4	7.6	5.7	3.8	0.0	0.0
193.0	82.5°	77.6	22.7	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
37.8	85°	26.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.2	87.5°	9.5	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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<u>180°</u>
3513.3
2132.2
1248.7
1016.0
938.4
866.5
798.4
736.0
675.4
616.8
558.1
510.8
471.1
440.8
412.4
389.7
359.5
334.9
317.8
300.8
289.5
280.0
268.7
255.4
232.7
189.2
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64.3
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