

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: P950030

Luminaire Tested: **GALN-SB4C-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950030
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-SB4C-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 23571 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

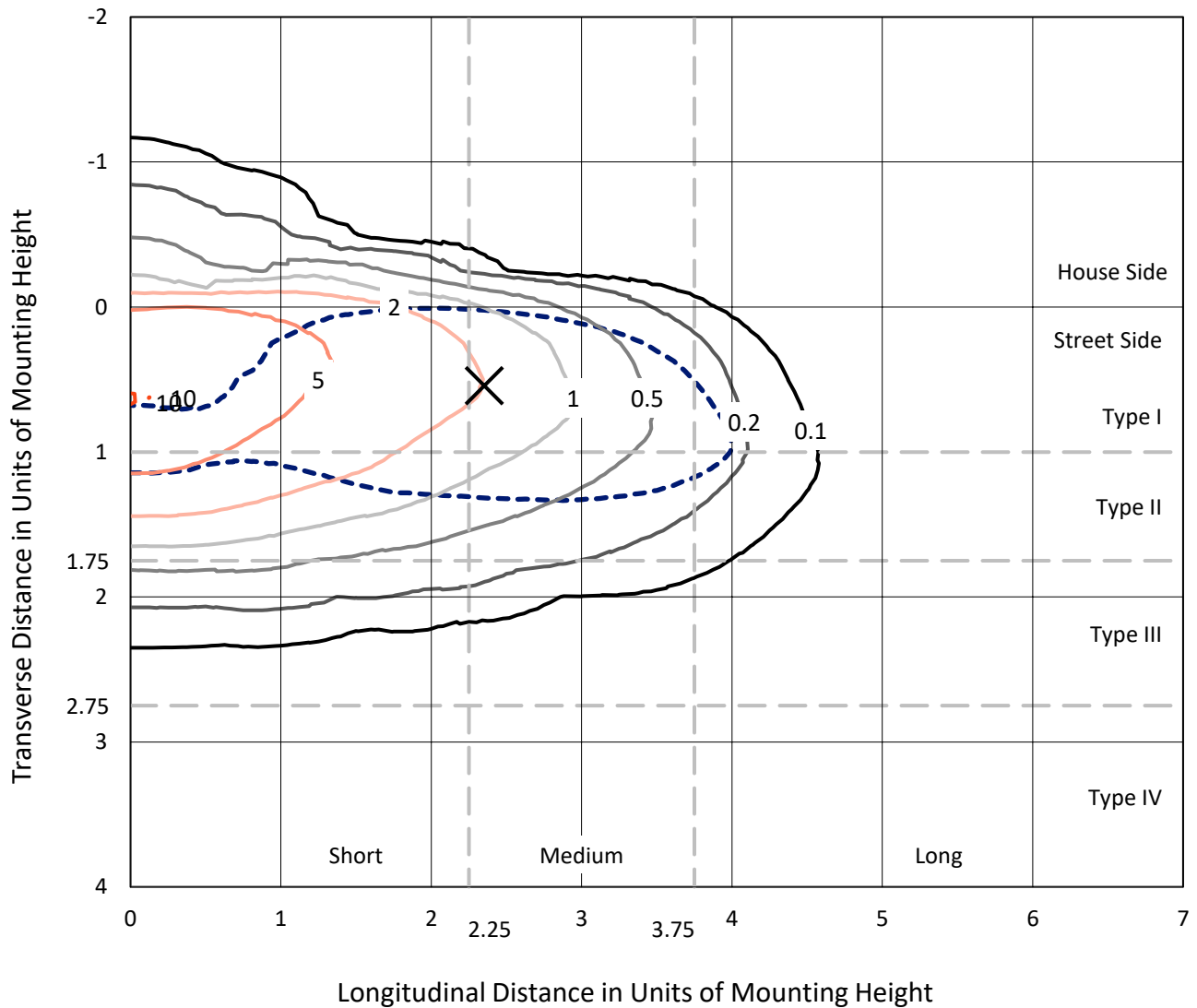
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

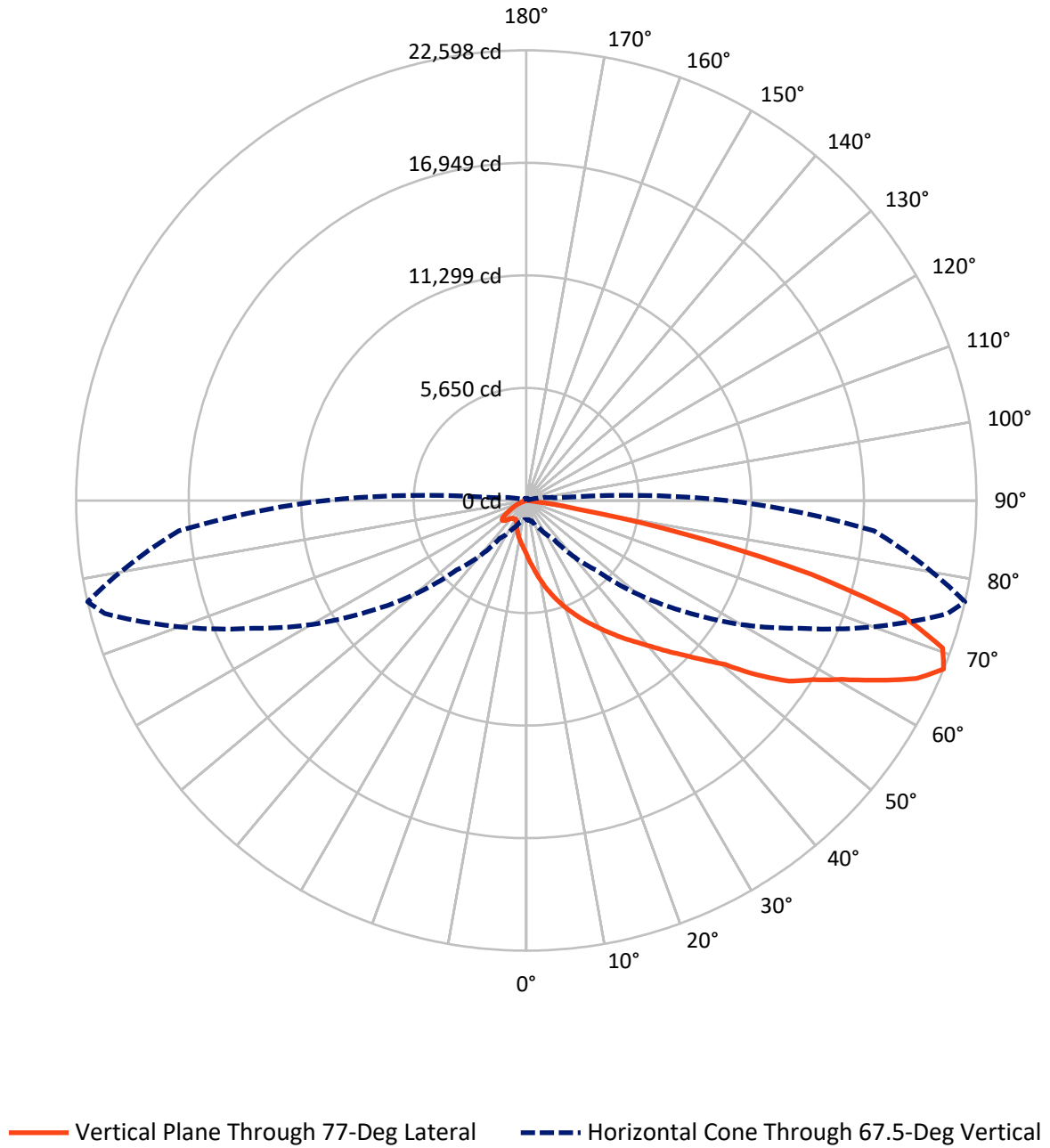
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	1734.1	0.0	1734.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21836.9	0.0	21836.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	23571.0	0.0	23571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	1.2
10°-20°	971.5	4.1
20°-30°	1874.7	8.0
30°-40°	3254.7	13.8
40°-50°	4725.6	20.0
50°-60°	5426.8	23.0
60°-70°	4711.4	20.0
70°-80°	2219.1	9.4
80°-90°	109.7	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°	23571.0	100.0
0°-180°	23571.0	100.0

Coefficient of Utilization



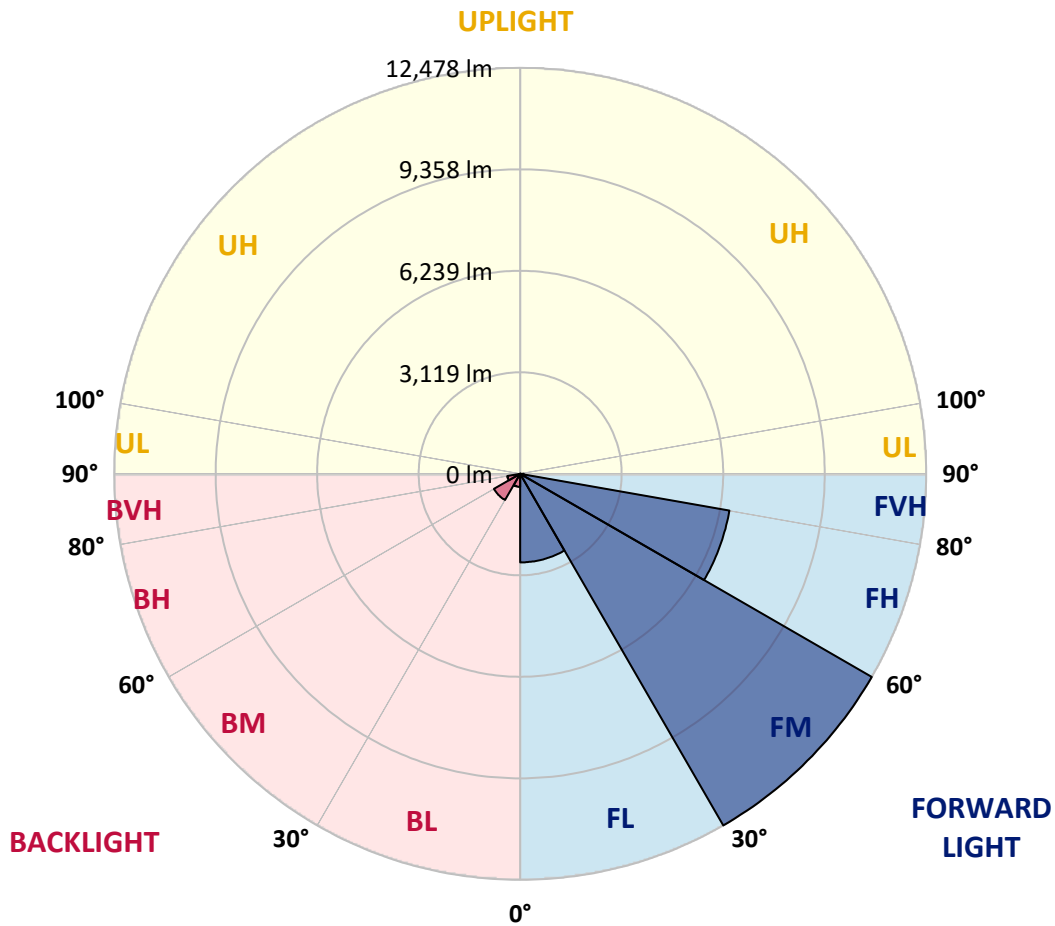
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2722.2	11.5			
FM (30°-60°)	12477.8	52.9			
FH (60°-80°)	6529.1	27.7			G3/7500
FVH (80°-90°)	107.7	0.5			G2/225
BL (0°-30°)	401.5	1.7	B1/500		
BM (30°-60°)	929.2	3.9	B1/1000		
BH (60°-80°)	401.5	1.7	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1
2.5°	3763.2	3786.6	3752.9	3688.5	3591.9	3529.0	3375.3	3230.4	3069.4	3018.1
5°	4587.2	4607.7	4569.7	4499.4	4370.6	4247.6	4045.7	3742.7	3428.0	3327.0
7.5°	5197.6	5209.3	5194.7	5130.3	5007.3	4868.3	4642.8	4284.2	3817.3	3706.1
10°	5636.7	5674.7	5670.4	5645.5	5563.5	5450.8	5210.8	4802.4	4253.5	4110.1
12.5°	5928.0	5970.4	5995.3	6050.9	6046.5	5974.8	5764.0	5332.2	4688.2	4519.9
15°	6012.9	6058.2	6153.4	6282.2	6396.3	6432.9	6285.1	5851.9	5166.8	4951.7
17.5°	5964.6	6034.8	6149.0	6352.4	6602.7	6768.1	6752.0	6353.9	5601.6	5355.7
20°	6071.4	6138.7	6228.0	6399.3	6690.6	6990.6	7110.6	6834.0	6033.4	5775.7
22.5°	6662.7	6651.0	6659.8	6687.6	6861.8	7158.9	7406.3	7270.2	6460.8	6197.3
25°	7599.5	7546.8	7457.5	7306.8	7262.9	7406.3	7663.9	7656.6	6911.6	6629.1
27.5°	8673.9	8665.1	8455.8	8092.8	7887.9	7832.2	7955.2	8032.8	7358.0	7056.5
30°	9702.8	9726.3	9443.8	9039.8	8663.6	8445.5	8334.3	8389.9	7811.7	7517.5
32.5°	10598.6	10623.5	10316.1	9843.4	9377.9	9114.4	8880.2	8742.7	8306.5	7985.9
35°	11355.4	11380.2	11027.5	10504.9	10008.8	9770.2	9505.2	9129.1	8804.1	8505.5
37.5°	12031.6	12024.3	11551.5	11024.6	10537.1	10348.3	10209.3	9604.8	9316.4	9028.1
40°	12431.2	12461.9	12057.9	11476.8	11004.1	10866.5	10857.7	10194.6	9907.8	9628.2
42.5°	12548.3	12602.4	12309.7	11832.5	11403.7	11254.4	11484.2	10832.8	10595.7	10323.4
45°	12337.5	12390.2	12257.0	11926.2	11675.9	11579.3	12022.8	11494.4	11330.5	11061.1
47.5°	11722.7	11788.6	11820.8	11750.5	11747.6	11845.7	12505.8	12191.1	12202.8	11927.7
50°	10532.8	10644.0	10939.7	11188.5	11573.4	12056.5	12975.7	12946.4	13186.4	12949.3
52.5°	8369.4	8527.5	9546.2	10226.8	11091.9	12016.9	13492.3	14158.3	14912.1	14565.2
55°	6725.7	6725.7	7554.1	8827.5	10152.2	11756.4	13717.8	14945.8	16087.5	16005.5
57.5°	5483.0	5548.9	6077.3	7202.8	8792.4	11135.8	13856.8	15440.5	17034.5	16974.5
60°	3384.1	3526.0	4524.3	5635.2	7245.3	10030.7	13769.0	15941.1	18183.5	18231.8
62.5°	1905.7	1958.4	2403.4	4054.4	5633.8	8545.1	13097.1	16220.7	19653.0	19858.0
65°	1315.9	1342.2	1513.5	2523.4	3905.1	6803.3	11784.2	16046.5	21125.5	21539.7
67.5°	955.8	969.0	1075.8	1541.3	2317.0	4932.7	9726.3	15168.3	21905.7	22598.0
70°	734.8	743.6	821.1	1012.9	1368.6	3044.5	7063.8	13422.1	21340.7	22167.7
72.5°	597.2	606.0	666.0	749.4	907.5	1800.3	4281.3	10900.1	18846.5	19739.4
75°	503.5	515.2	569.4	623.5	711.4	1156.3	2008.2	7590.7	14173.0	14758.4
77.5°	279.6	257.6	462.5	516.7	600.1	731.8	939.7	4467.2	7937.6	8100.1
80°	174.2	180.0	367.4	415.7	461.1	368.9	430.3	1719.8	2751.7	2614.2
82.5°	10.2	23.4	282.5	300.1	316.2	158.1	162.5	584.0	663.1	608.9
85°	0.0	0.0	128.8	103.9	109.8	45.4	46.8	136.1	89.3	96.6
87.5°	0.0	0.0	0.0	2.9	0.0	4.4	8.8	11.7	4.4	5.9
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°
2718.1	0°	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1	2718.1
2857.1	2.5°	2754.7	2652.2	2444.4	2240.9	2075.5	1921.8	1812.1	1708.1	1655.4	1652.5
3041.6	5°	2838.1	2622.9	2207.3	1839.9	1544.2	1307.1	1153.4	1043.6	988.0	969.0
3268.4	7.5°	2955.2	2631.7	1999.4	1488.6	1140.2	936.8	848.9	813.8	802.1	788.9
3524.6	10°	3103.0	2652.2	1813.5	1198.8	898.7	796.3	761.1	746.5	737.7	728.9
3812.9	12.5°	3268.4	2671.2	1629.1	995.3	790.4	737.7	712.8	695.3	683.5	673.3
4108.6	15°	3429.4	2683.0	1437.3	853.3	734.8	692.3	666.0	647.0	630.9	619.1
4398.4	17.5°	3589.0	2699.1	1257.3	768.4	689.4	647.0	620.6	597.2	584.0	570.8
4702.9	20°	3766.1	2696.1	1087.5	708.4	644.0	601.6	573.8	551.8	538.6	524.0
5024.9	22.5°	3930.0	2681.5	938.2	657.2	597.2	556.2	525.5	503.5	490.3	478.6
5354.2	25°	4118.8	2669.8	813.8	610.4	553.3	512.3	478.6	458.1	443.5	433.3
5685.0	27.5°	4300.3	2652.2	723.1	567.9	510.8	471.3	439.1	415.7	402.5	395.2
6026.0	30°	4478.9	2647.8	689.4	526.9	472.8	433.3	401.1	379.1	368.9	365.9
6400.7	32.5°	4694.1	2659.5	704.0	512.3	437.6	398.1	367.4	351.3	341.0	341.0
6817.9	35°	4923.9	2656.6	726.0	525.5	414.2	363.0	339.6	329.3	319.1	319.1
7280.4	37.5°	5212.2	2661.0	743.6	547.4	405.4	333.7	320.5	307.4	301.5	301.5
7786.9	40°	5642.5	2805.9	734.8	566.5	402.5	313.2	286.9	282.5	278.1	278.1
8359.2	42.5°	6169.5	3120.6	746.5	567.9	401.1	298.6	263.5	272.2	262.0	260.5
9004.7	45°	6746.2	3464.6	821.1	537.2	399.6	291.3	251.8	262.0	245.9	245.9
9752.6	47.5°	7318.5	3805.6	897.2	493.3	395.2	289.8	241.5	235.7	231.3	232.7
10727.4	50°	8107.4	4083.7	926.5	433.3	385.0	286.9	222.5	223.9	221.0	223.9
12101.8	52.5°	8966.6	4142.3	891.4	365.9	355.7	278.1	209.3	215.2	213.7	216.6
13069.3	55°	9502.3	4079.3	736.2	304.4	310.3	243.0	196.1	207.8	207.8	207.8
14014.9	57.5°	10055.6	3811.5	522.5	247.4	257.6	199.1	184.4	200.5	199.1	197.6
15153.6	60°	10453.7	3378.2	344.0	203.5	204.9	163.9	171.3	188.8	187.4	180.0
16327.5	62.5°	10750.8	2899.6	221.0	172.7	156.6	147.8	156.6	171.3	165.4	149.3
17322.8	65°	10717.2	2236.5	169.8	147.8	128.8	128.8	136.1	149.3	131.7	105.4
17513.1	67.5°	10092.2	1513.5	140.5	124.4	108.3	106.8	112.7	124.4	112.7	89.3
16538.3	70°	8975.4	989.5	112.7	96.6	86.4	79.0	90.7	106.8	95.1	71.7
14079.3	72.5°	7284.8	603.0	84.9	70.3	62.9	51.2	71.7	87.8	76.1	52.7
9790.7	75°	4713.1	307.4	58.5	45.4	33.7	30.7	52.7	65.9	52.7	32.2
4344.2	77.5°	1803.3	128.8	32.2	20.5	17.6	14.6	29.3	39.5	22.0	7.3
841.6	80°	346.9	54.2	16.1	10.2	8.8	5.9	4.4	2.9	0.0	0.0
149.3	82.5°	60.0	17.6	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
29.3	85°	20.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	7.3	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>
2718.1
1649.6
966.0
786.0
726.0
670.4
617.7
569.4
522.5
477.2
431.8
395.2
364.5
341.0
319.1
301.5
278.1
259.1
245.9
232.7
223.9
216.6
207.8
197.6
180.0
146.4
102.5
86.4
68.8
49.8
27.8
5.9
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