

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: P955366

Luminaire Tested: **GALN-SB8B-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
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-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

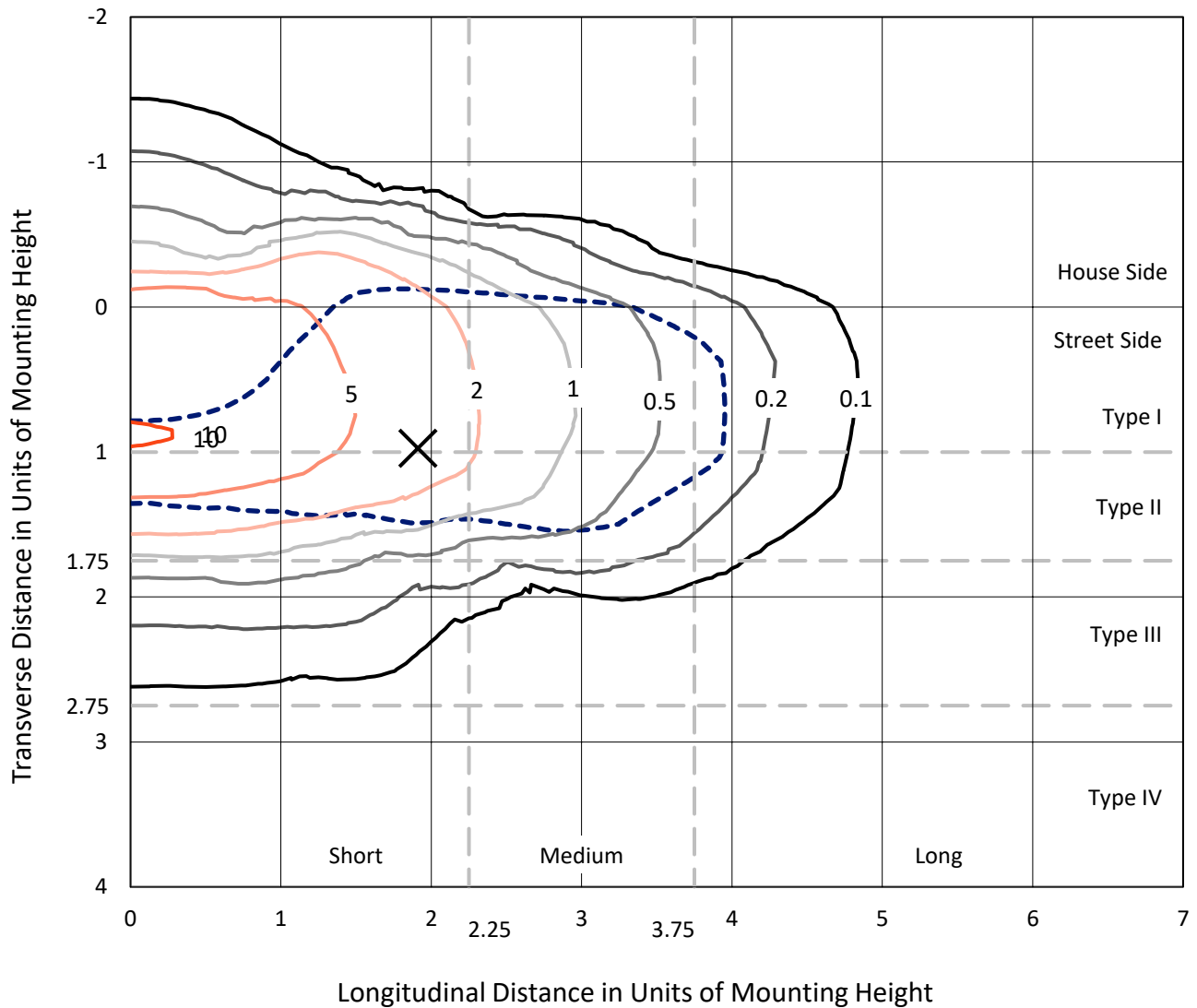
Lumens per Lamp: N/A  
Luminaire Lumens: 31268 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

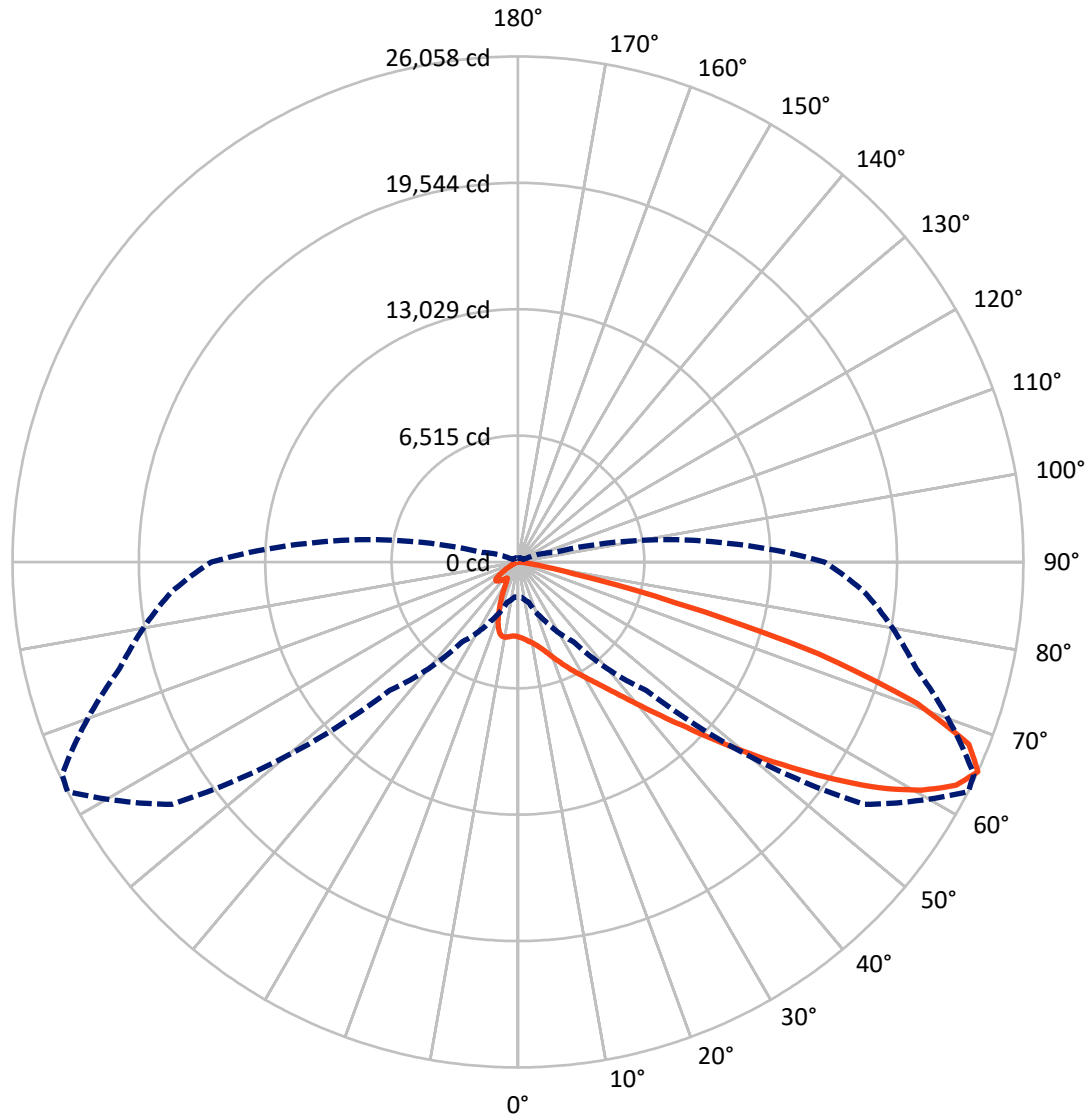
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4596.2	0.0	4596.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	26671.9	0.0	26671.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	31268.0	0.0	31268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.6	1.2
10°-20°	1008.8	3.2
20°-30°	1756.7	5.6
30°-40°	3166.2	10.1
40°-50°	6279.6	20.1
50°-60°	8553.8	27.4
60°-70°	6827.6	21.8
70°-80°	3089.6	9.9
80°-90°	222.1	0.7
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°	31268.0	100.0
0°-180°	31268.0	100.0

**Coefficient of Utilization**



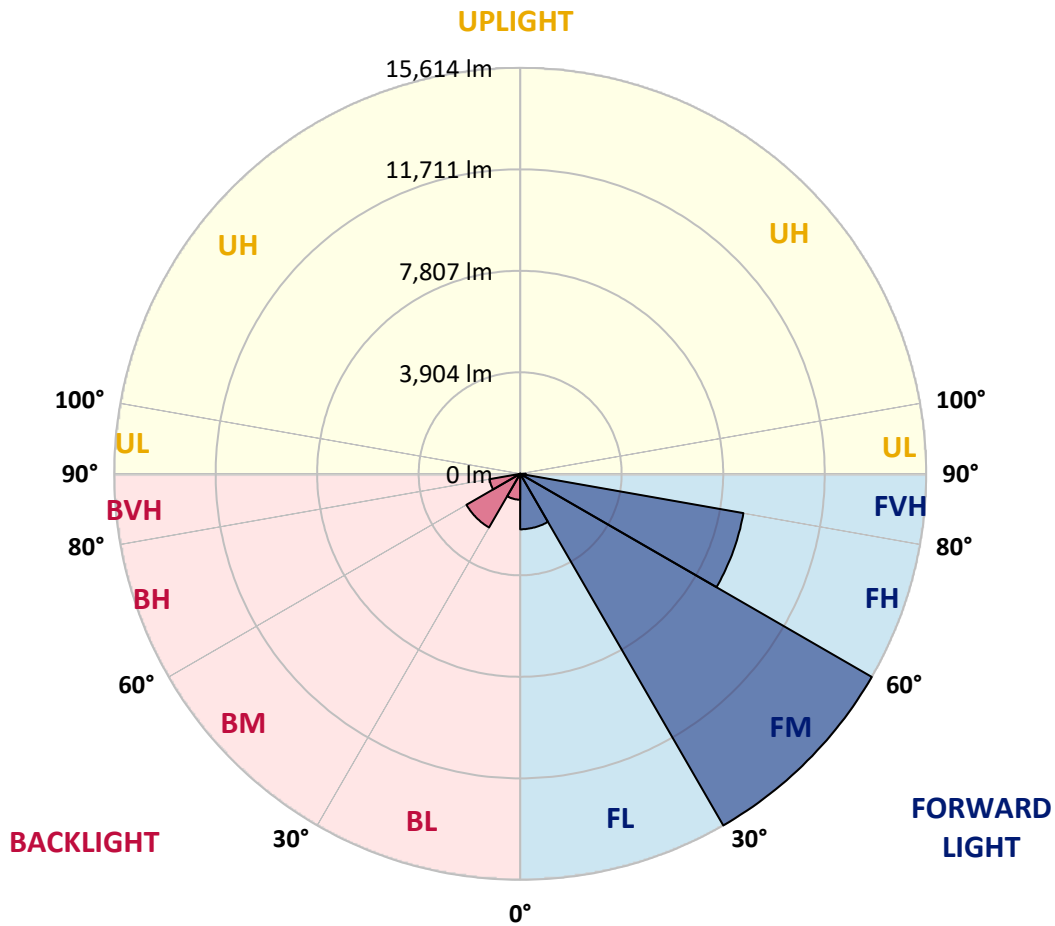
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.4	6.8			
FM (30°-60°)	15614.5	49.9			
FH (60°-80°)	8717.4	27.9			G4/12000
FVH (80°-90°)	205.6	0.7			G2/225
BL (0°-30°)	994.7	3.2	B2/1000		
BM (30°-60°)	2385.1	7.6	B2/2500		
BH (60°-80°)	1199.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1
2.5°	3949.4	3938.7	3953.7	3947.3	3943.0	3934.4	3930.0	3925.7	3917.1	3910.7
5°	3960.2	3953.7	3968.8	3981.7	3994.6	4007.5	4013.9	4022.5	4013.9	3996.7
7.5°	3869.8	3865.5	3897.8	3936.5	3994.6	4044.1	4097.8	4127.9	4130.1	4123.6
10°	3863.4	3852.6	3884.9	3932.2	4007.5	4095.7	4190.3	4254.9	4263.5	4291.4
12.5°	3964.5	3953.7	3998.9	4050.5	4127.9	4220.4	4336.6	4427.0	4439.9	4478.6
15°	4134.4	4119.3	4171.0	4237.7	4336.6	4442.0	4564.6	4646.4	4657.1	4704.4
17.5°	4332.3	4317.2	4377.5	4448.5	4556.0	4700.1	4842.1	4932.5	4945.4	4975.5
20°	4586.1	4566.8	4614.1	4678.6	4792.6	4964.7	5134.7	5263.7	5261.6	5261.6
22.5°	4880.8	4850.7	4891.6	4943.2	5050.8	5259.4	5485.3	5638.0	5638.0	5577.8
25°	5197.0	5166.9	5212.1	5259.4	5354.1	5590.7	5855.3	6044.6	6053.2	5949.9
27.5°	5592.8	5554.1	5588.5	5644.5	5700.4	5941.3	6255.4	6474.8	6479.1	6319.9
30°	6354.3	6244.6	6137.1	6076.8	6102.7	6341.4	6677.0	6920.1	6941.6	6722.2
32.5°	7748.2	7726.7	7348.1	6853.4	6595.3	6771.6	7148.1	7440.6	7453.5	7171.7
35°	9914.4	9888.6	9279.8	8337.6	7496.6	7348.1	7720.3	8066.6	8058.0	7739.6
37.5°	12500.0	12476.3	11674.0	10413.4	9051.8	8219.3	8458.1	8821.6	8875.4	8458.1
40°	14709.2	14621.0	14113.3	12898.0	11116.9	9664.9	9507.8	9748.8	9804.7	9309.9
42.5°	16382.7	16307.4	16049.3	15290.0	13616.4	11803.1	10744.7	10837.2	10899.6	10305.9
45°	17249.6	17232.4	17335.7	17264.7	16163.3	14427.4	12512.9	12127.9	12151.5	11409.4
47.5°	17372.2	17363.6	17834.7	18501.6	18353.1	17387.3	14782.3	13736.9	13653.0	12654.9
50°	16649.5	16632.3	17535.7	18785.5	19815.9	19874.0	17359.3	15550.3	15365.3	13943.4
52.5°	14341.3	14337.0	15821.3	17901.4	20330.0	22050.9	19906.2	17542.2	17232.4	15307.2
55°	11035.1	11114.7	12816.2	15274.9	19392.1	23098.4	22192.8	19753.5	19278.1	16679.6
57.5°	7817.1	7933.2	9615.4	11805.2	16483.8	22478.9	23739.5	21969.1	21457.2	18047.7
60°	4198.9	4302.2	5986.5	8600.1	12263.4	20168.7	24554.7	23892.2	23408.2	19346.9
62.5°	2501.7	2536.1	3233.1	5552.0	8294.6	15408.3	24208.4	25357.1	24959.1	20437.5
65°	1796.2	1802.6	2153.2	3390.1	5035.7	9361.6	21779.8	26058.3	25935.7	21259.3
67.5°	1512.2	1507.9	1654.2	2252.2	3431.0	4689.4	16692.5	25066.7	25587.3	21779.8
70°	1297.1	1303.6	1475.7	1649.9	2579.2	2654.4	8298.9	21825.0	22935.0	21917.5
72.5°	965.8	987.4	1146.5	1503.6	1946.7	1826.3	2865.3	16182.7	18189.6	20650.5
75°	681.9	692.7	806.7	1264.8	1452.0	1329.4	1462.7	8365.6	10938.3	15832.0
77.5°	524.9	544.2	610.9	884.1	1430.5	933.6	894.9	2895.4	4448.5	9563.8
80°	283.9	318.4	441.0	638.9	1004.6	660.4	443.1	1153.0	1507.9	4472.1
82.5°	146.3	163.5	307.6	460.3	572.2	576.5	219.4	479.7	621.7	1381.0
85°	58.1	71.0	206.5	253.8	294.7	283.9	99.0	193.6	223.7	382.9
87.5°	12.9	21.5	75.3	58.1	55.9	60.2	23.7	45.2	43.0	45.2
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°
3859.1	0°	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1
3884.9	2.5°	3882.7	3874.1	3850.5	3824.6	3794.5	3777.3	3766.6	3764.4	3749.4	3738.6
3970.9	5°	3947.3	3938.7	3893.5	3839.7	3781.6	3736.4	3693.4	3654.7	3598.8	3588.0
4095.7	7.5°	4076.3	4052.7	3979.5	3906.4	3796.7	3665.5	3506.3	3323.4	3160.0	3110.5
4261.3	10°	4235.5	4203.2	4110.7	3981.7	3738.6	3381.5	2996.5	2639.4	2355.4	2275.9
4457.1	12.5°	4416.2	4388.2	4265.6	4026.8	3495.5	2848.0	2258.6	1815.5	1540.2	1471.3
4665.7	15°	4631.3	4590.4	4420.5	3958.0	3061.0	2164.0	1550.9	1288.5	1189.6	1176.6
4904.5	17.5°	4859.3	4792.6	4558.2	3710.6	2475.9	1538.0	1198.2	1122.9	1079.8	1066.9
5145.4	20°	5068.0	4981.9	4639.9	3336.3	1849.9	1198.2	1073.4	1023.9	985.2	970.1
5386.3	22.5°	5276.6	5154.0	4639.9	2826.5	1387.5	1062.6	985.2	940.0	894.9	875.5
5644.5	25°	5493.9	5330.4	4558.2	2258.6	1116.4	974.4	901.3	851.8	813.1	789.5
5889.7	27.5°	5704.7	5478.8	4371.0	1720.9	993.8	897.0	823.9	776.5	740.0	722.8
6156.4	30°	5904.8	5625.1	4108.6	1305.7	914.2	821.7	752.9	712.0	675.4	658.2
6502.8	32.5°	6175.8	5810.1	3828.9	1071.2	845.4	750.7	688.3	649.6	617.4	604.5
6952.3	35°	6552.2	6083.3	3588.0	1051.9	787.3	692.7	630.3	593.7	561.4	550.7
7533.1	37.5°	7085.7	6524.3	3461.1	1181.0	740.0	641.0	582.9	544.2	514.1	505.5
8271.0	40°	7743.9	7122.3	3529.9	1310.0	707.7	595.9	539.9	501.2	475.4	464.6
9118.5	42.5°	8524.8	7860.1	3910.7	1409.0	686.2	557.1	499.1	456.0	438.8	434.5
10080.0	45°	9421.8	8671.1	4493.6	1514.4	651.8	520.6	458.2	425.9	413.0	410.9
11125.5	47.5°	10441.4	9561.6	5169.1	1645.6	617.4	486.1	425.9	404.4	393.7	389.3
12216.1	50°	11452.4	10458.6	5863.9	1718.7	589.4	453.9	400.1	382.9	374.3	372.1
13369.0	52.5°	12510.8	11381.4	6425.3	1649.9	565.7	428.1	378.6	365.7	357.1	354.9
14431.7	55°	13519.6	12127.9	6522.1	1400.4	518.4	402.3	354.9	348.5	337.7	337.7
15509.4	57.5°	14388.7	12502.2	5838.1	1028.2	471.1	363.5	331.3	324.8	316.2	314.1
16481.7	60°	15186.7	12394.6	4506.5	692.7	419.5	324.8	301.2	296.9	288.2	277.5
17327.1	62.5°	15636.3	11921.4	3082.5	451.7	367.8	283.9	266.7	264.6	245.2	223.7
17953.0	65°	15806.2	10949.1	1923.1	329.1	307.6	243.1	230.2	225.9	197.9	174.2
18308.0	67.5°	15657.8	9348.7	970.1	260.3	243.1	202.2	189.3	189.3	169.9	148.4
18286.4	70°	15064.1	7008.3	408.7	208.7	187.1	154.9	154.9	163.5	144.1	120.5
17337.8	72.5°	13775.6	4715.2	217.3	159.2	139.8	109.7	126.9	133.4	114.0	90.3
14190.8	75°	10951.2	2876.0	150.6	118.3	88.2	77.4	96.8	101.1	77.4	60.2
9729.4	77.5°	7490.1	1652.0	101.1	75.3	55.9	45.2	66.7	62.4	40.9	28.0
3751.5	80°	3289.0	688.3	58.1	34.4	21.5	17.2	23.7	17.2	12.9	8.6
514.1	82.5°	385.0	161.3	21.5	12.9	8.6	4.3	2.2	0.0	0.0	0.0
157.0	85°	79.6	19.4	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0
28.0	87.5°	15.1	4.3	2.2	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>
3859.1
3749.4
3583.7
3086.8
2245.7
1452.0
1163.7
1060.5
961.5
864.7
780.8
722.8
660.4
604.5
550.7
503.4
462.5
434.5
408.7
389.3
372.1
354.9
335.6
311.9
275.3
219.4
172.1
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90.3
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