

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: P951966

Luminaire Tested: **GALN-SB5D-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29771 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

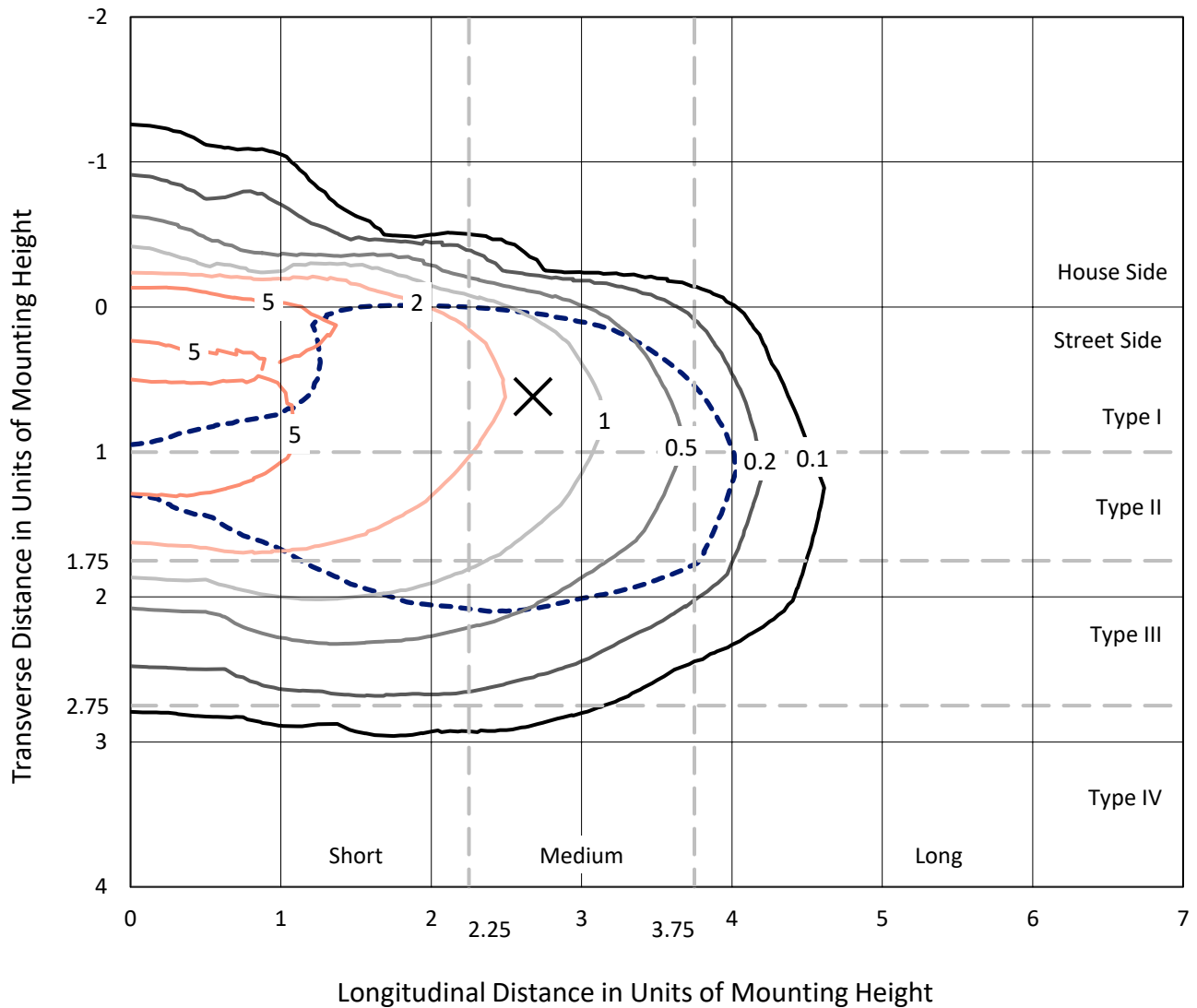
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

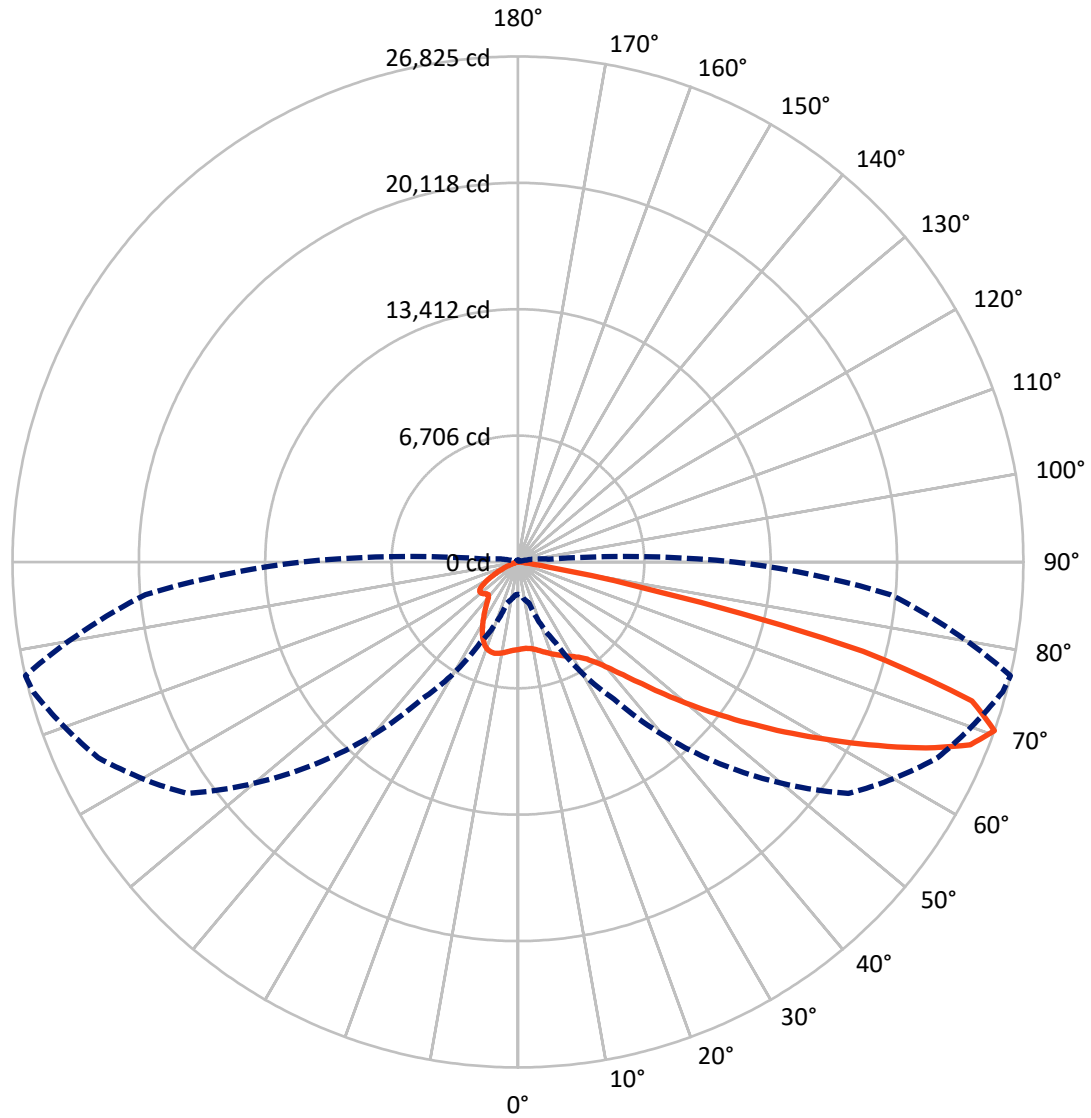
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3138.3	0.0	3138.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26632.7	0.0	26632.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	29771.0	0.0	29771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.3
10°-20°	950.1	3.2
20°-30°	1469.5	4.9
30°-40°	2666.5	9.0
40°-50°	5033.3	16.9
50°-60°	7272.7	24.4
60°-70°	7741.6	26.0
70°-80°	4102.5	13.8
80°-90°	134.7	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°	29771.0	100.0
0°-180°	29771.0	100.0

Coefficient of Utilization



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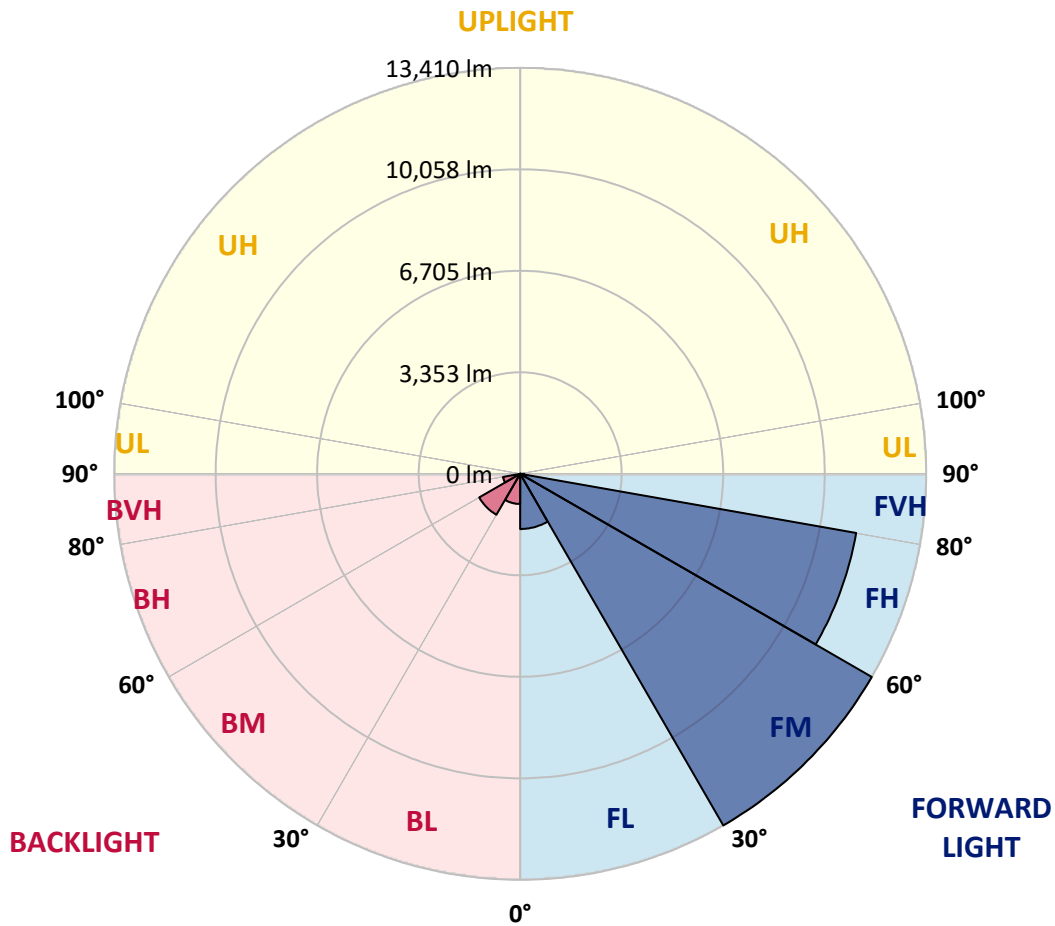
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.7	6.1			
FM (30°-60°)	13410.2	45.0			
FH (60°-80°)	11268.7	37.9			G4/12000
FVH (80°-90°)	131.1	0.4			G2/225
BL (0°-30°)	997.1	3.3	B2/1000		
BM (30°-60°)	1562.3	5.2	B2/2500		
BH (60°-80°)	575.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
2.5°	4359.8	4399.3	4393.7	4420.0	4429.4	4467.0	4504.6	4555.4	4611.8	4609.9
5°	4113.6	4153.0	4162.4	4198.2	4243.3	4301.6	4378.7	4480.2	4585.5	4602.4
7.5°	3822.2	3863.5	3888.0	3959.4	4042.1	4162.4	4288.4	4436.9	4611.8	4636.2
10°	3530.7	3568.3	3600.3	3701.8	3833.4	4012.0	4217.0	4431.3	4666.3	4702.0
12.5°	3350.3	3386.0	3421.7	3510.1	3673.6	3891.7	4170.0	4457.6	4756.5	4807.3
15°	3286.3	3318.3	3346.5	3425.5	3577.7	3825.9	4160.6	4512.1	4871.2	4938.9
17.5°	3295.7	3312.7	3331.5	3391.6	3540.1	3795.8	4177.5	4606.1	5006.6	5066.8
20°	3350.3	3359.7	3361.5	3402.9	3534.5	3792.1	4211.3	4696.4	5134.4	5215.3
22.5°	3419.8	3423.6	3419.8	3448.0	3570.2	3820.3	4256.4	4805.4	5277.3	5352.5
25°	3745.1	3673.6	3583.4	3528.9	3630.4	3874.8	4324.1	4952.1	5433.4	5506.7
27.5°	4754.7	4549.7	4226.4	3863.5	3754.5	3953.8	4418.1	5100.6	5591.3	5657.1
30°	6394.1	6125.2	5576.2	4758.4	4153.0	4119.2	4540.3	5249.1	5758.6	5830.1
32.5°	8037.2	7971.4	7337.9	6206.1	5049.8	4487.7	4743.4	5450.3	5980.5	6036.9
35°	9699.2	9565.7	9046.8	7928.2	6431.7	5237.8	5081.8	5713.5	6271.9	6335.8
37.5°	10972.0	10891.2	10569.7	9648.4	8071.1	6396.0	5660.8	6121.5	6694.9	6766.3
40°	12096.3	12058.7	11949.6	11342.4	9904.1	7911.3	6561.4	6753.2	7281.5	7366.1
42.5°	12979.9	13068.3	13130.3	12961.1	11793.6	9640.9	7772.2	7640.5	8099.3	8185.8
45°	13884.2	13914.3	14164.3	14408.7	13669.9	11449.5	9137.1	8680.2	9116.4	9223.6
47.5°	14465.2	14585.5	15025.4	15455.9	15247.3	13243.1	10603.5	9907.9	10295.2	10496.4
50°	14508.4	14735.9	15341.3	16091.4	16396.0	14950.2	12197.8	11306.7	11718.4	11940.2
52.5°	13788.3	14141.8	15079.9	16177.9	17016.4	16396.0	13846.6	12705.4	13233.7	13523.2
55°	10571.6	11034.0	14096.7	15707.9	17040.8	17492.0	15452.2	14162.5	14922.0	15249.1
57.5°	9210.4	9443.5	11082.9	14891.9	16587.7	17933.9	16903.6	15549.9	16758.8	17164.9
60°	7663.1	7969.6	9295.0	13557.1	15973.0	17977.1	18185.8	17339.8	18749.8	19206.7
62.5°	5207.8	5540.5	6858.4	11263.4	15132.6	17956.4	19236.7	19182.2	20962.6	21453.3
65°	3226.2	3434.9	4303.4	9197.2	13957.5	17979.0	20336.6	21419.5	23297.7	23795.9
67.5°	2549.4	2645.2	3098.3	7061.5	11932.7	17471.4	21434.5	23523.3	25495.4	25890.3
70°	1712.7	1771.0	2254.2	4734.0	8877.6	15128.8	21413.8	24579.9	26627.2	26824.6
72.5°	902.4	947.5	1317.9	2192.1	5361.9	10753.9	18050.4	23316.5	25501.1	25204.0
75°	451.2	526.4	887.4	1113.0	2289.9	5997.4	11208.9	18383.2	20071.5	18920.9
77.5°	342.2	413.6	733.2	733.2	797.1	2019.2	4747.1	10026.3	9248.0	7700.7
80°	218.1	282.0	641.1	554.6	332.8	513.3	1237.1	2808.8	1964.7	1494.6
82.5°	127.8	184.2	533.9	366.6	186.1	189.9	349.7	597.9	509.5	396.7
85°	50.8	120.3	366.6	144.8	73.3	47.0	105.3	127.8	105.3	79.0
87.5°	0.0	28.2	63.9	0.0	5.6	3.8	7.5	9.4	9.4	7.5
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°
4643.7	0°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
4647.5	2.5°	4664.4	4668.2	4679.5	4681.3	4655.0	4621.2	4608.0	4602.4	4579.8	4577.9
4677.6	5°	4720.8	4737.7	4720.8	4671.9	4555.4	4391.8	4267.7	4166.2	4074.1	4045.9
4781.0	7.5°	4833.6	4850.5	4799.8	4608.0	4314.7	3989.5	3696.2	3489.4	3303.3	3233.7
4906.9	10°	4995.3	5017.9	4858.1	4470.8	3951.9	3429.2	2932.9	2583.2	2310.6	2199.7
5078.0	12.5°	5198.4	5207.8	4890.0	4262.1	3480.0	2733.6	2030.5	1656.3	1413.8	1323.6
5284.8	15°	5422.1	5408.9	4893.8	3978.2	2837.0	1932.7	1325.4	1088.6	990.8	960.7
5491.6	17.5°	5657.1	5602.6	4818.6	3568.3	2132.0	1321.7	983.3	926.9	909.9	902.4
5696.6	20°	5888.3	5766.1	4681.3	3032.5	1530.4	987.0	893.0	876.1	866.7	862.9
5903.4	22.5°	6098.9	5890.2	4446.3	2410.2	1111.1	872.3	844.1	829.1	812.2	804.7
6104.5	25°	6303.8	5961.7	4115.4	1829.3	889.3	815.9	793.4	765.2	742.6	733.2
6320.7	27.5°	6503.1	6006.8	3701.8	1353.6	793.4	763.3	721.9	682.5	665.5	661.8
6552.0	30°	6715.6	6021.8	3231.8	1009.6	735.1	697.5	637.3	592.2	582.8	584.7
6864.1	32.5°	6975.0	6044.4	2758.0	827.2	686.2	618.5	547.1	500.1	492.6	500.1
7319.1	35°	7285.2	6089.5	2301.2	761.4	643.0	537.7	460.6	421.1	413.6	419.3
7901.9	37.5°	7706.3	6162.8	1874.4	748.3	607.3	470.0	387.3	355.3	355.3	357.2
8616.3	40°	8266.6	6358.3	1492.8	738.9	588.5	419.3	327.1	314.0	319.6	323.4
9526.2	42.5°	8949.1	6773.8	1235.2	727.6	567.8	396.7	297.0	291.4	300.8	304.6
10616.7	45°	9714.2	7300.3	1145.0	708.8	549.0	411.7	283.9	276.4	287.6	289.5
11838.7	47.5°	10505.8	7815.4	1133.7	688.1	530.2	434.3	280.1	263.2	276.4	278.2
13143.5	50°	11306.7	8151.9	1145.0	656.1	500.1	434.3	282.0	250.0	261.3	267.0
14497.1	52.5°	12113.2	8306.1	1137.4	586.6	447.5	408.0	282.0	238.8	250.0	253.8
15959.8	55°	12895.3	8276.0	1022.8	483.2	379.8	361.0	274.5	229.4	236.9	238.8
17341.6	57.5°	13513.8	7856.8	810.3	376.0	308.3	300.8	250.0	218.1	223.7	221.8
18608.8	60°	13837.2	6935.5	579.1	289.5	242.5	236.9	220.0	203.0	206.8	197.4
19682.3	62.5°	13841.0	5717.3	387.3	229.4	193.6	188.0	188.0	182.4	178.6	159.8
20513.3	65°	13545.8	4365.5	257.6	182.4	156.0	146.6	157.9	156.0	142.9	116.6
20767.1	67.5°	12876.5	2861.4	195.5	142.9	120.3	114.7	126.0	131.6	122.2	97.8
19842.1	70°	11500.3	1665.7	161.7	110.9	90.2	84.6	101.5	112.8	101.5	79.0
16960.0	72.5°	9552.6	898.7	131.6	82.7	62.0	56.4	80.8	92.1	80.8	58.3
10881.8	75°	6198.5	481.3	101.5	54.5	32.0	35.7	60.2	67.7	56.4	37.6
3194.2	77.5°	2081.2	212.4	63.9	26.3	15.0	15.0	35.7	41.4	26.3	13.2
580.9	80°	464.4	88.4	26.3	11.3	5.6	5.6	7.5	7.5	3.8	0.0
178.6	82.5°	152.3	35.7	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45.1	85°	58.3	13.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	22.6	1.9	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>
4643.7
4581.7
4029.0
3205.5
2152.7
1295.4
960.7
900.5
859.2
802.8
729.5
658.0
584.7
498.2
417.4
355.3
323.4
304.6
291.4
280.1
268.8
253.8
238.8
221.8
195.5
154.2
112.8
95.9
75.2
56.4
33.8
11.3
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