

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: P950284

Luminaire Tested: **GALN-SB4D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950284
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-SB4D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA 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: 32975 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

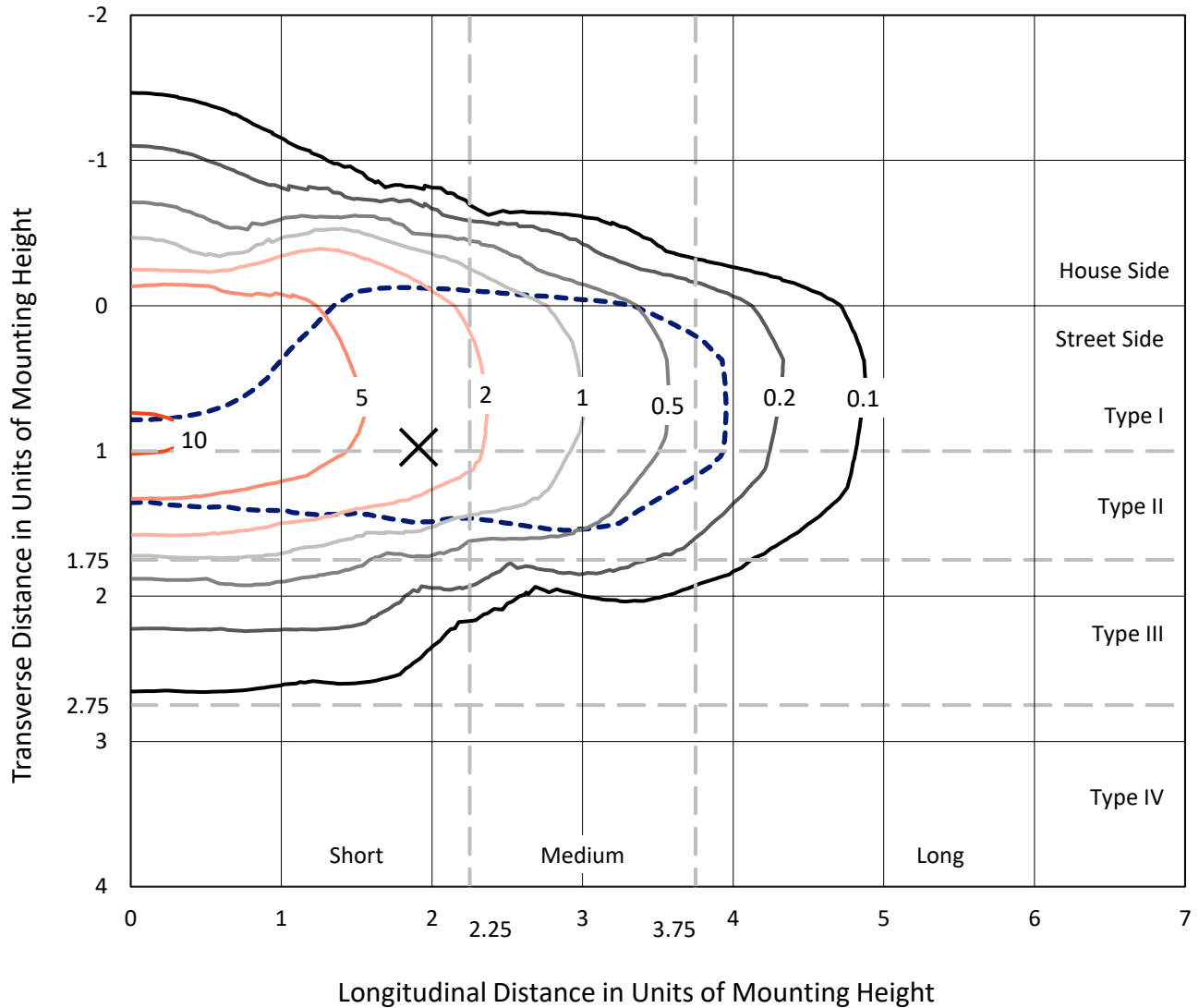
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

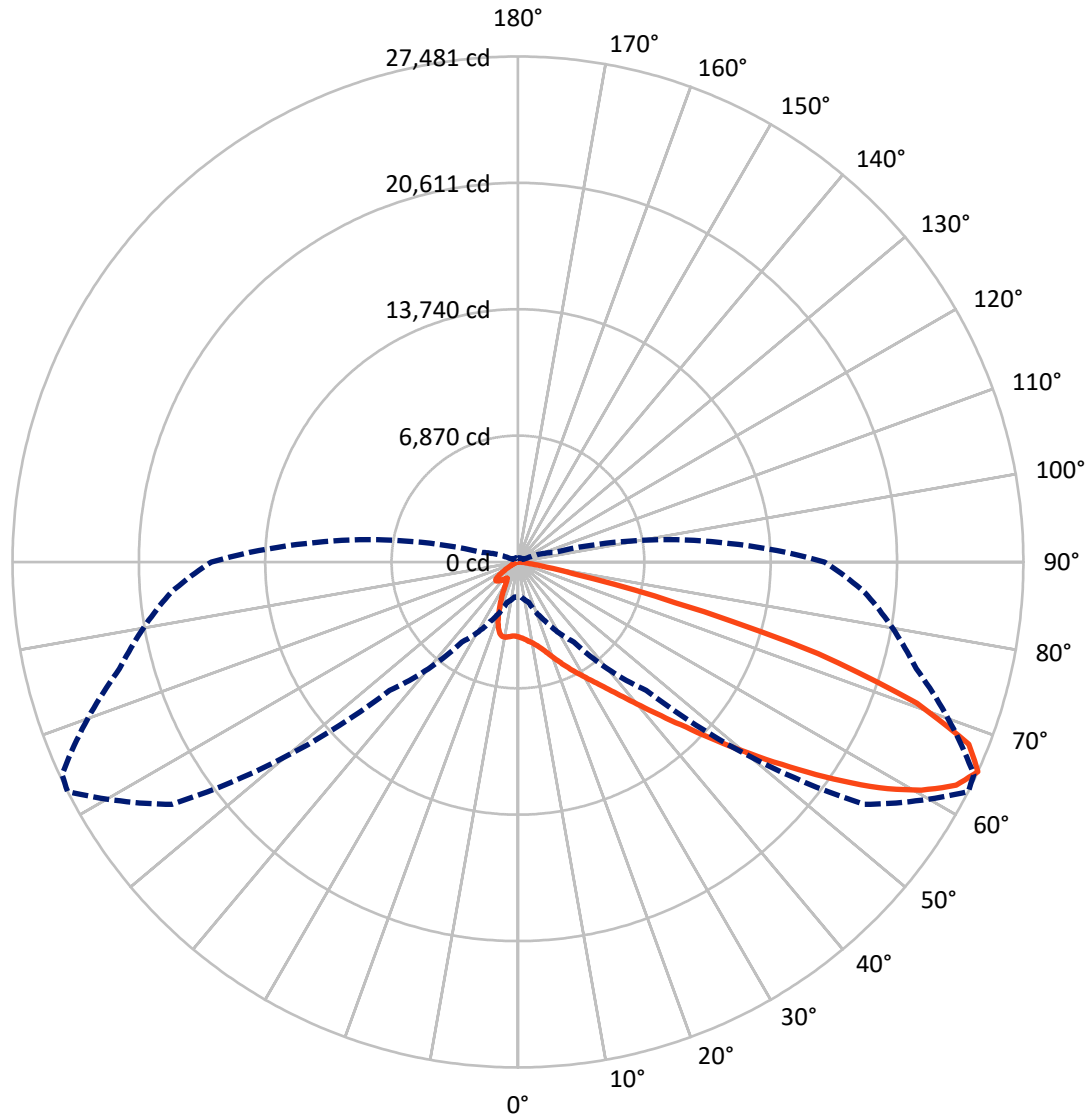
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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
House Side	Lumens	4847.1	0.0	4847.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28127.9	0.0	28127.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	32975.0	0.0	32975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	1.2
10°-20°	1063.9	3.2
20°-30°	1852.6	5.6
30°-40°	3339.0	10.1
40°-50°	6622.4	20.1
50°-60°	9020.8	27.4
60°-70°	7200.3	21.8
70°-80°	3258.3	9.9
80°-90°	234.2	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°	32975.0	100.0
0°-180°	32975.0	100.0

Coefficient of Utilization



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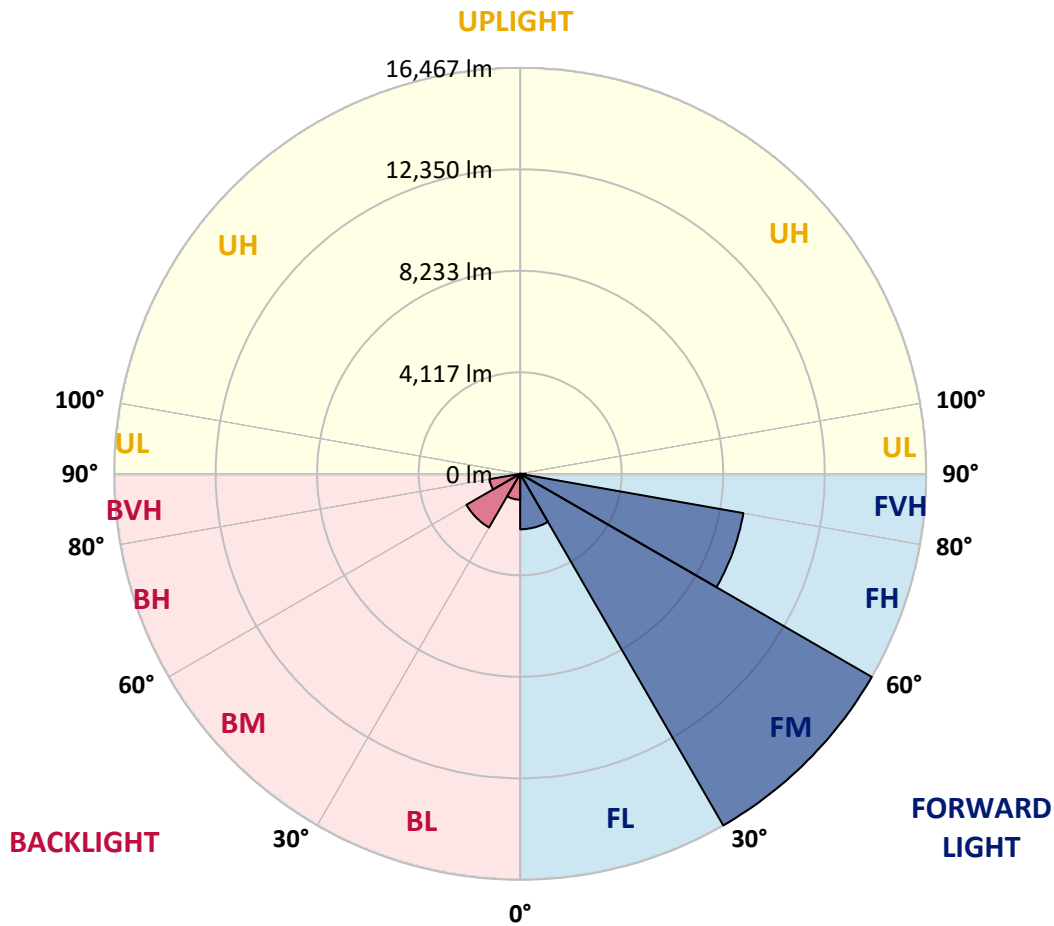
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.9	6.8			
FM (30°-60°)	16466.9	49.9			
FH (60°-80°)	9193.3	27.9			G4/12000
FVH (80°-90°)	216.8	0.7			G2/225
BL (0°-30°)	1049.0	3.2	B3/2500		
BM (30°-60°)	2515.3	7.6	B3/5000		
BH (60°-80°)	1265.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.4	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°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4165.0	4153.7	4169.6	4162.7	4158.2	4149.1	4144.6	4140.1	4131.0	4124.2
5°	4176.4	4169.6	4185.4	4199.0	4212.7	4226.3	4233.1	4242.1	4233.1	4214.9
7.5°	4081.1	4076.5	4110.6	4151.4	4212.7	4264.8	4321.5	4353.3	4355.6	4348.8
10°	4074.3	4062.9	4097.0	4146.9	4226.3	4319.3	4419.1	4487.1	4496.2	4525.7
12.5°	4180.9	4169.6	4217.2	4271.6	4353.3	4450.9	4573.4	4668.6	4682.2	4723.1
15°	4360.1	4344.2	4398.7	4469.0	4573.4	4684.5	4813.8	4900.0	4911.4	4961.3
17.5°	4568.8	4552.9	4616.5	4691.3	4804.7	4956.7	5106.5	5201.7	5215.3	5247.1
20°	4836.5	4816.1	4866.0	4934.0	5054.3	5235.8	5415.0	5551.1	5548.8	5548.8
22.5°	5147.3	5115.5	5158.6	5213.1	5326.5	5546.5	5784.7	5945.8	5945.8	5882.3
25°	5480.8	5449.0	5496.6	5546.5	5646.4	5895.9	6174.9	6374.6	6383.6	6274.7
27.5°	5898.2	5857.3	5893.6	5952.6	6011.6	6265.7	6596.9	6828.3	6832.8	6664.9
30°	6701.2	6585.5	6472.1	6408.6	6435.8	6687.6	7041.5	7297.9	7320.5	7089.1
32.5°	8171.2	8148.6	7749.3	7227.5	6955.3	7141.3	7538.3	7846.8	7860.4	7563.3
35°	10455.6	10428.4	9786.4	8792.8	7905.8	7749.3	8141.7	8507.0	8497.9	8162.2
37.5°	13182.4	13157.5	12311.3	10981.9	9546.0	8668.0	8919.8	9303.2	9359.9	8919.8
40°	15512.2	15419.2	14883.8	13602.1	11723.7	10192.5	10026.9	10281.0	10339.9	9818.2
42.5°	17277.1	17197.7	16925.5	16124.7	14359.8	12447.4	11331.3	11428.8	11494.6	10868.5
45°	18191.3	18173.2	18282.1	18207.2	17045.7	15215.0	13196.0	12790.0	12814.9	12032.3
47.5°	18320.6	18311.6	18808.4	19511.6	19355.1	18336.5	15589.3	14486.8	14398.3	13345.7
50°	17558.4	17540.3	18493.0	19811.0	20897.7	20958.9	18307.0	16399.2	16204.1	14704.6
52.5°	15124.3	15119.7	16685.0	18878.7	21439.9	23254.7	20993.0	18499.8	18173.2	16142.8
55°	11637.5	11721.5	13515.9	16108.8	20450.8	24359.4	23404.4	20831.9	20330.5	17590.2
57.5°	8243.8	8366.3	10140.3	12449.7	17383.7	23706.1	25035.5	23168.5	22628.6	19032.9
60°	4428.2	4537.1	6313.3	9069.6	12932.9	21269.7	25895.2	25196.5	24686.1	20403.1
62.5°	2638.3	2674.6	3409.6	5855.1	8747.4	16249.5	25530.0	26741.4	26321.7	21553.3
65°	1894.2	1901.0	2270.8	3575.2	5310.6	9872.6	22968.8	27480.9	27351.6	22419.9
67.5°	1594.8	1590.2	1744.5	2375.1	3618.3	4945.4	17603.8	26435.1	26984.1	22968.8
70°	1367.9	1374.7	1556.2	1740.0	2720.0	2799.4	8752.0	23016.5	24187.0	23114.0
72.5°	1018.6	1041.3	1209.1	1585.7	2053.0	1926.0	3021.7	17066.1	19182.7	21777.9
75°	719.1	730.5	850.7	1333.9	1531.3	1401.9	1542.6	8822.3	11535.5	16696.4
77.5°	553.5	573.9	644.3	932.4	1508.6	984.5	943.7	3053.4	4691.3	10085.9
80°	299.4	335.7	465.0	673.8	1059.4	696.4	467.3	1215.9	1590.2	4716.3
82.5°	154.3	172.4	324.4	485.5	603.4	608.0	231.4	505.9	655.6	1456.4
85°	61.3	74.9	217.8	267.7	310.8	299.4	104.4	204.2	235.9	403.8
87.5°	13.6	22.7	79.4	61.3	59.0	63.5	25.0	47.6	45.4	47.6
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°
4069.7	0°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
4097.0	2.5°	4094.7	4085.6	4060.7	4033.4	4001.7	3983.5	3972.2	3969.9	3954.0	3942.7
4187.7	5°	4162.7	4153.7	4106.0	4049.3	3988.1	3940.4	3895.1	3854.2	3795.2	3783.9
4319.3	7.5°	4298.9	4273.9	4196.8	4119.6	4004.0	3865.6	3697.7	3504.9	3332.5	3280.3
4494.0	10°	4466.7	4432.7	4335.2	4199.0	3942.7	3566.1	3160.1	2783.5	2484.0	2400.1
4700.4	12.5°	4657.3	4627.8	4498.5	4246.7	3686.4	3003.5	2382.0	1914.6	1624.3	1551.7
4920.4	15°	4884.1	4841.0	4661.8	4174.1	3228.1	2282.1	1635.6	1358.8	1254.5	1240.9
5172.2	17.5°	5124.6	5054.3	4807.0	3913.2	2611.1	1622.0	1263.6	1184.2	1138.8	1125.2
5426.3	20°	5344.7	5253.9	4893.2	3518.5	1950.9	1263.6	1132.0	1079.8	1039.0	1023.1
5680.4	22.5°	5564.7	5435.4	4893.2	2980.8	1463.2	1120.7	1039.0	991.3	943.7	923.3
5952.6	25°	5793.8	5621.4	4807.0	2382.0	1177.4	1027.6	950.5	898.3	857.5	832.5
6211.2	27.5°	6016.1	5777.9	4609.6	1814.8	1048.1	946.0	868.8	818.9	780.4	762.2
6492.5	30°	6227.1	5932.2	4332.9	1377.0	964.1	866.6	794.0	750.9	712.3	694.2
6857.8	32.5°	6512.9	6127.3	4038.0	1129.7	891.5	791.7	725.9	685.1	651.1	637.5
7331.9	35°	6909.9	6415.4	3783.9	1109.3	830.3	730.5	664.7	626.1	592.1	580.7
7944.4	37.5°	7472.5	6880.4	3650.1	1245.4	780.4	676.0	614.8	573.9	542.2	533.1
8722.5	40°	8166.7	7511.1	3722.7	1381.5	746.3	628.4	569.4	528.6	501.3	490.0
9616.3	42.5°	8990.2	8289.2	4124.2	1485.9	723.7	587.5	526.3	480.9	462.8	458.2
10630.3	45°	9936.1	9144.4	4739.0	1597.0	687.4	549.0	483.2	449.2	435.6	433.3
11732.8	47.5°	11011.4	10083.6	5451.3	1735.4	651.1	512.7	449.2	426.5	415.1	410.6
12883.0	50°	12077.6	11029.6	6184.0	1812.6	621.6	478.7	421.9	403.8	394.7	392.5
14098.9	52.5°	13193.8	12002.8	6776.1	1740.0	596.6	451.4	399.3	385.6	376.6	374.3
15219.5	55°	14257.7	12790.0	6878.2	1476.8	546.7	424.2	374.3	367.5	356.2	356.2
16356.1	57.5°	15174.2	13184.7	6156.8	1084.4	496.8	383.4	349.4	342.5	333.5	331.2
17381.5	60°	16015.8	13071.3	4752.6	730.5	442.4	342.5	317.6	313.1	304.0	292.6
18273.0	62.5°	16489.9	12572.2	3250.8	476.4	387.9	299.4	281.3	279.0	258.6	235.9
18933.1	65°	16669.1	11546.8	2028.1	347.1	324.4	256.3	242.7	238.2	208.7	183.8
19307.4	67.5°	16512.6	9859.0	1023.1	274.5	256.3	213.2	199.6	199.6	179.2	156.5
19284.8	70°	15886.5	7390.9	431.0	220.0	197.4	163.3	163.3	172.4	152.0	127.0
18284.3	72.5°	14527.6	4972.6	229.1	167.9	147.5	115.7	133.8	140.6	120.2	95.3
14965.5	75°	11549.1	3033.0	158.8	124.8	93.0	81.7	102.1	106.6	81.7	63.5
10260.5	77.5°	7899.0	1742.2	106.6	79.4	59.0	47.6	70.3	65.8	43.1	29.5
3956.3	80°	3468.6	725.9	61.3	36.3	22.7	18.1	25.0	18.1	13.6	9.1
542.2	82.5°	406.1	170.1	22.7	13.6	9.1	4.5	2.3	0.0	0.0	0.0
165.6	85°	83.9	20.4	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0
29.5	87.5°	15.9	4.5	2.3	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>
4069.7
3954.0
3779.4
3255.3
2368.3
1531.3
1227.3
1118.4
1014.0
911.9
823.5
762.2
696.4
637.5
580.7
530.8
487.7
458.2
431.0
410.6
392.5
374.3
353.9
328.9
290.4
231.4
181.5
154.3
124.8
95.3
61.3
31.8
9.1
0.0
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