

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: P950286

Luminaire Tested: **GALN-SB4D-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950286
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-SB4D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 35922 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

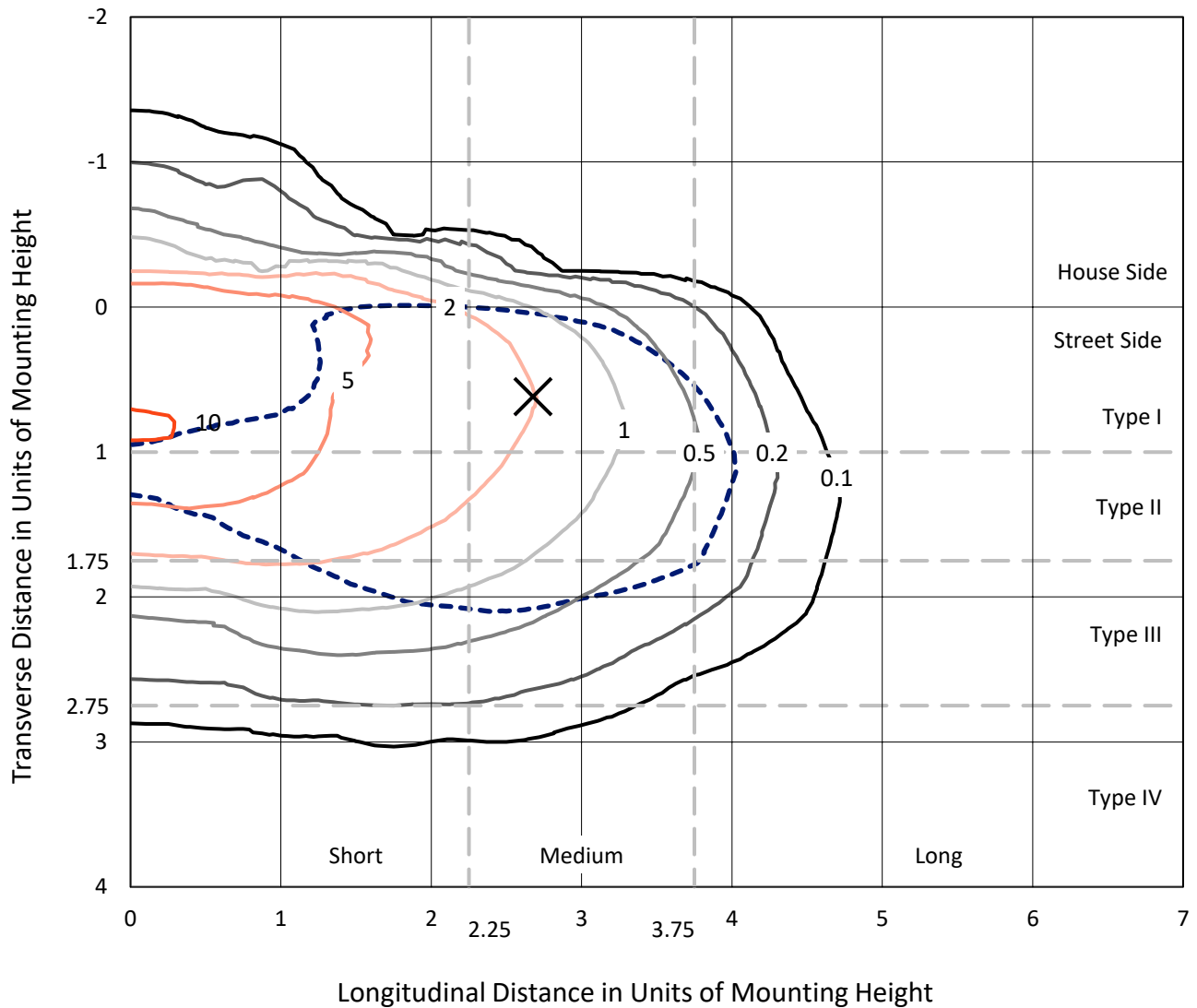
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

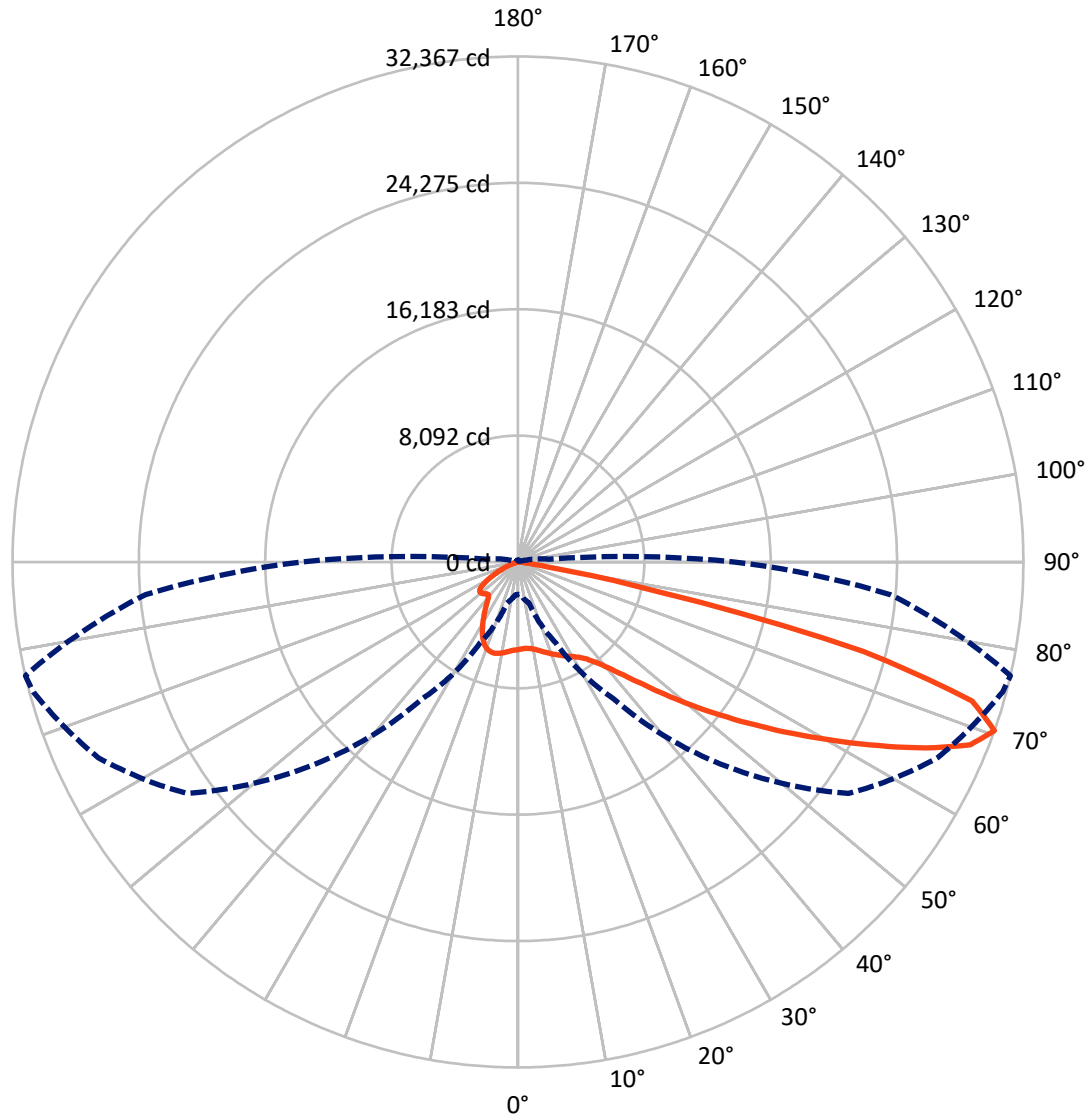
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3786.7	0.0	3786.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32135.3	0.0	32135.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	35922.0	0.0	35922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	1.3
10°-20°	1146.4	3.2
20°-30°	1773.1	4.9
30°-40°	3217.4	9.0
40°-50°	6073.2	16.9
50°-60°	8775.3	24.4
60°-70°	9341.1	26.0
70°-80°	4950.1	13.8
80°-90°	162.5	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°	35922.0	100.0
0°-180°	35922.0	100.0



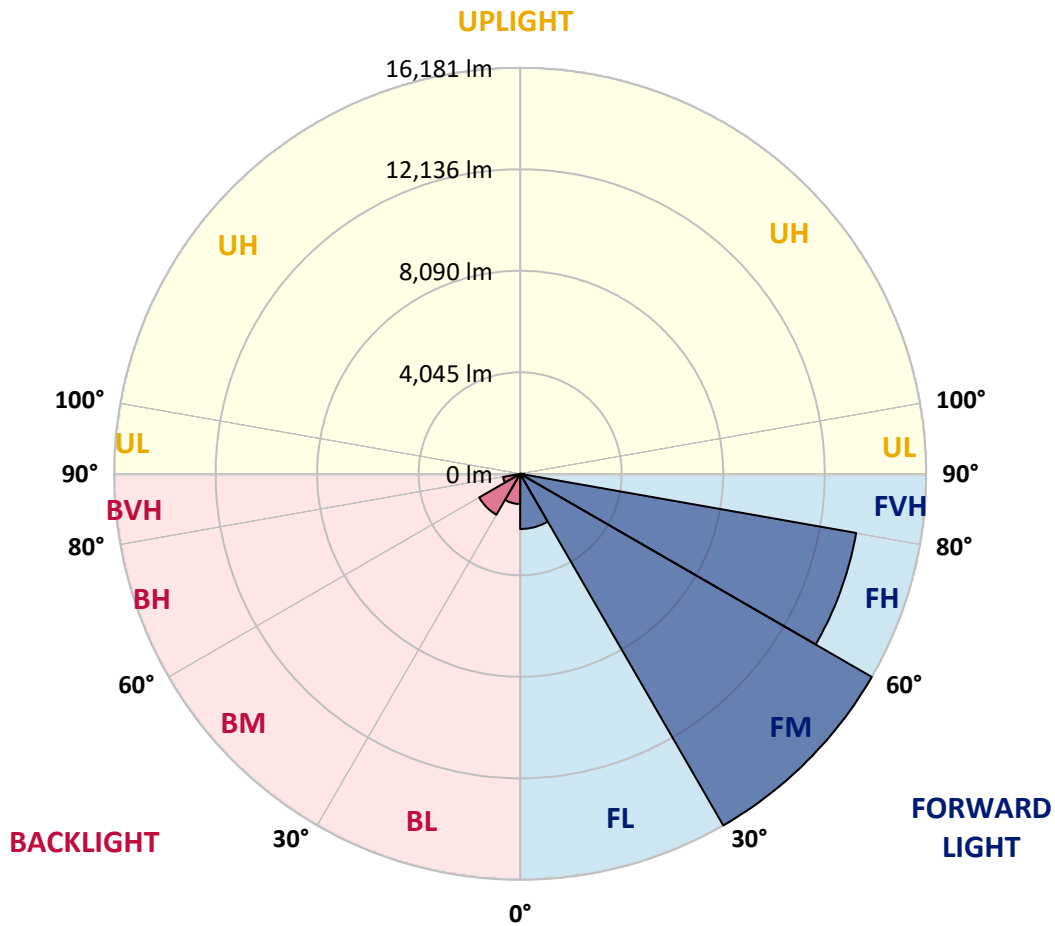
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.3	6.1			
FM (30°-60°)	16180.9	45.0			
FH (60°-80°)	13597.0	37.9			G5
FVH (80°-90°)	158.2	0.4			G2/225
BL (0°-30°)	1203.1	3.3	B3/2500		
BM (30°-60°)	1885.0	5.2	B2/2500		
BH (60°-80°)	694.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2
2.5°	5260.6	5308.3	5301.5	5333.2	5344.6	5389.9	5435.3	5496.6	5564.6	5562.4
5°	4963.5	5011.1	5022.4	5065.5	5120.0	5190.3	5283.3	5405.8	5532.9	5553.3
7.5°	4611.9	4661.8	4691.2	4777.5	4877.3	5022.4	5174.4	5353.6	5564.6	5594.1
10°	4260.2	4305.6	4344.2	4466.7	4625.5	4841.0	5088.2	5346.8	5630.4	5673.5
12.5°	4042.5	4085.6	4128.7	4235.3	4432.6	4695.8	5031.5	5378.6	5739.3	5800.5
15°	3965.3	4003.9	4037.9	4133.2	4316.9	4616.4	5020.2	5444.4	5877.7	5959.3
17.5°	3976.7	3997.1	4019.8	4092.4	4271.6	4580.1	5040.6	5557.8	6041.0	6113.6
20°	4042.5	4053.8	4056.1	4106.0	4264.8	4575.6	5081.4	5666.7	6195.3	6292.8
22.5°	4126.4	4130.9	4126.4	4160.4	4307.9	4609.6	5135.9	5798.3	6367.7	6458.4
25°	4518.8	4432.6	4323.8	4258.0	4380.5	4675.4	5217.5	5975.2	6556.0	6644.4
27.5°	5737.0	5489.8	5099.6	4661.8	4530.2	4770.6	5331.0	6154.4	6746.5	6825.9
30°	7715.2	7390.8	6728.4	5741.6	5011.1	4970.3	5478.4	6333.6	6948.4	7034.6
32.5°	9697.8	9618.4	8853.9	7488.3	6093.2	5414.9	5723.4	6576.4	7216.1	7284.1
35°	11703.2	11542.1	10916.0	9566.2	7760.5	6320.0	6131.7	6894.0	7567.7	7644.8
37.5°	13238.9	13141.4	12753.5	11641.9	9738.7	7717.4	6830.4	7386.2	8078.1	8164.3
40°	14595.5	14550.1	14418.6	13685.8	11950.4	9545.8	7917.0	8148.4	8785.9	8888.0
42.5°	15661.7	15768.3	15843.2	15639.0	14230.3	11632.8	9378.0	9219.2	9772.7	9877.0
45°	16752.8	16789.1	17090.8	17385.7	16494.2	13815.1	11024.9	10473.6	10999.9	11129.2
47.5°	17453.8	17599.0	18129.8	18649.3	18397.5	15979.3	12794.3	11955.0	12422.3	12665.0
50°	17506.0	17780.5	18510.9	19416.1	19783.5	18039.1	14718.0	13642.7	14139.5	14407.2
52.5°	16637.1	17063.6	18195.6	19520.4	20532.2	19783.5	16707.5	15330.5	15967.9	16317.3
55°	12755.7	13313.8	17009.2	18953.3	20561.6	21106.1	18644.8	17088.6	18005.0	18399.8
57.5°	11113.4	11394.7	13372.8	17968.8	20014.9	21639.2	20396.0	18762.7	20221.4	20711.4
60°	9246.4	9616.2	11215.4	16358.1	19273.1	21691.4	21943.2	20922.3	22623.7	23174.9
62.5°	6283.7	6685.3	8275.5	13590.6	18259.1	21666.4	23211.2	23145.5	25293.7	25885.8
65°	3892.7	4144.5	5192.6	11097.5	16841.3	21693.6	24538.3	25845.0	28111.2	28712.3
67.5°	3076.1	3191.8	3738.5	8520.5	14398.1	21081.1	25863.1	28383.4	30763.1	31239.4
70°	2066.6	2136.9	2719.9	5712.1	10711.8	18254.6	25838.2	29658.3	32128.7	32366.9
72.5°	1088.9	1143.3	1590.2	2645.1	6469.7	12975.8	21779.8	28133.9	30769.9	30411.4
75°	544.4	635.2	1070.7	1342.9	2763.0	7236.5	13524.8	22181.3	24218.5	22830.1
77.5°	412.9	499.1	884.7	884.7	961.8	2436.4	5728.0	12097.9	11158.7	9291.8
80°	263.1	340.3	773.6	669.2	401.5	619.3	1492.7	3389.1	2370.6	1803.5
82.5°	154.3	222.3	644.3	442.4	224.6	229.1	421.9	721.4	614.8	478.7
85°	61.2	145.2	442.4	174.7	88.5	56.7	127.0	154.3	127.0	95.3
87.5°	0.0	34.0	77.1	0.0	6.8	4.5	9.1	11.3	11.3	9.1
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°
5603.2	0°	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2	5603.2
5607.7	2.5°	5628.1	5632.7	5646.3	5648.6	5616.8	5576.0	5560.1	5553.3	5526.1	5523.8
5644.0	5°	5696.2	5716.6	5696.2	5637.2	5496.6	5299.2	5149.5	5027.0	4915.8	4881.8
5768.8	7.5°	5832.3	5852.7	5791.5	5560.1	5206.2	4813.7	4459.9	4210.3	3985.7	3901.8
5920.8	10°	6027.4	6054.6	5861.8	5394.5	4768.4	4137.7	3538.9	3116.9	2788.0	2654.1
6127.2	12.5°	6272.4	6283.7	5900.4	5142.7	4199.0	3298.4	2450.0	1998.5	1705.9	1597.0
6376.7	15°	6542.3	6526.5	5904.9	4800.1	3423.2	2332.0	1599.3	1313.5	1195.5	1159.2
6626.3	17.5°	6825.9	6760.1	5814.2	4305.6	2572.5	1594.8	1186.4	1118.4	1098.0	1088.9
6873.5	20°	7104.9	6957.5	5648.6	3659.1	1846.6	1191.0	1077.5	1057.1	1045.8	1041.2
7123.1	22.5°	7359.0	7107.2	5365.0	2908.2	1340.7	1052.6	1018.6	1000.4	980.0	970.9
7365.8	25°	7606.3	7193.4	4965.7	2207.2	1073.0	984.5	957.3	923.3	896.1	884.7
7626.7	27.5°	7846.7	7247.8	4466.7	1633.3	957.3	921.0	871.1	823.5	803.0	798.5
7905.7	30°	8103.1	7266.0	3899.5	1218.2	887.0	841.6	769.0	714.6	703.2	705.5
8282.3	32.5°	8416.1	7293.2	3327.9	998.1	828.0	746.3	660.1	603.4	594.3	603.4
8831.3	35°	8790.4	7347.7	2776.6	918.7	775.8	648.8	555.8	508.1	499.1	505.9
9534.5	37.5°	9298.6	7436.1	2261.7	902.9	732.7	567.1	467.3	428.7	428.7	431.0
10396.5	40°	9974.6	7672.1	1801.2	891.5	710.0	505.9	394.7	378.8	385.6	390.2
11494.5	42.5°	10798.0	8173.4	1490.4	877.9	685.1	478.7	358.4	351.6	363.0	367.5
12810.2	45°	11721.3	8808.6	1381.5	855.2	662.4	496.8	342.5	333.5	347.1	349.3
14284.7	47.5°	12676.4	9430.1	1367.9	830.3	639.7	524.0	338.0	317.6	333.5	335.7
15859.1	50°	13642.7	9836.2	1381.5	791.7	603.4	524.0	340.3	301.7	315.3	322.1
17492.4	52.5°	14615.9	10022.2	1372.4	707.8	539.9	492.3	340.3	288.1	301.7	306.2
19257.3	55°	15559.6	9985.9	1234.1	583.0	458.2	435.6	331.2	276.8	285.8	288.1
20924.6	57.5°	16305.9	9480.0	977.7	453.7	372.0	363.0	301.7	263.1	270.0	267.7
22453.6	60°	16696.1	8368.5	698.7	349.3	292.6	285.8	265.4	245.0	249.5	238.2
23748.9	62.5°	16700.7	6898.5	467.3	276.8	233.7	226.8	226.8	220.0	215.5	192.8
24751.6	65°	16344.5	5267.4	310.8	220.0	188.3	176.9	190.6	188.3	172.4	140.6
25057.8	67.5°	15536.9	3452.6	235.9	172.4	145.2	138.4	152.0	158.8	147.5	118.0
23941.7	70°	13876.4	2009.9	195.1	133.8	108.9	102.1	122.5	136.1	122.5	95.3
20464.1	72.5°	11526.2	1084.3	158.8	99.8	74.9	68.1	97.5	111.2	97.5	70.3
13130.1	75°	7479.2	580.7	122.5	65.8	38.6	43.1	72.6	81.7	68.1	45.4
3854.2	77.5°	2511.2	256.3	77.1	31.8	18.1	18.1	43.1	49.9	31.8	15.9
701.0	80°	560.3	106.6	31.8	13.6	6.8	6.8	9.1	9.1	4.5	0.0
215.5	82.5°	183.7	43.1	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
54.4	85°	70.3	15.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	27.2	2.3	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>
5603.2
5528.3
4861.4
3867.8
2597.4
1563.0
1159.2
1086.6
1036.7
968.6
880.2
794.0
705.5
601.2
503.6
428.7
390.2
367.5
351.6
338.0
324.4
306.2
288.1
267.7
235.9
186.0
136.1
115.7
90.7
68.1
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