

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: P954211

Luminaire Tested: **GALN-SB7C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954211
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-SB7C-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 43063 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

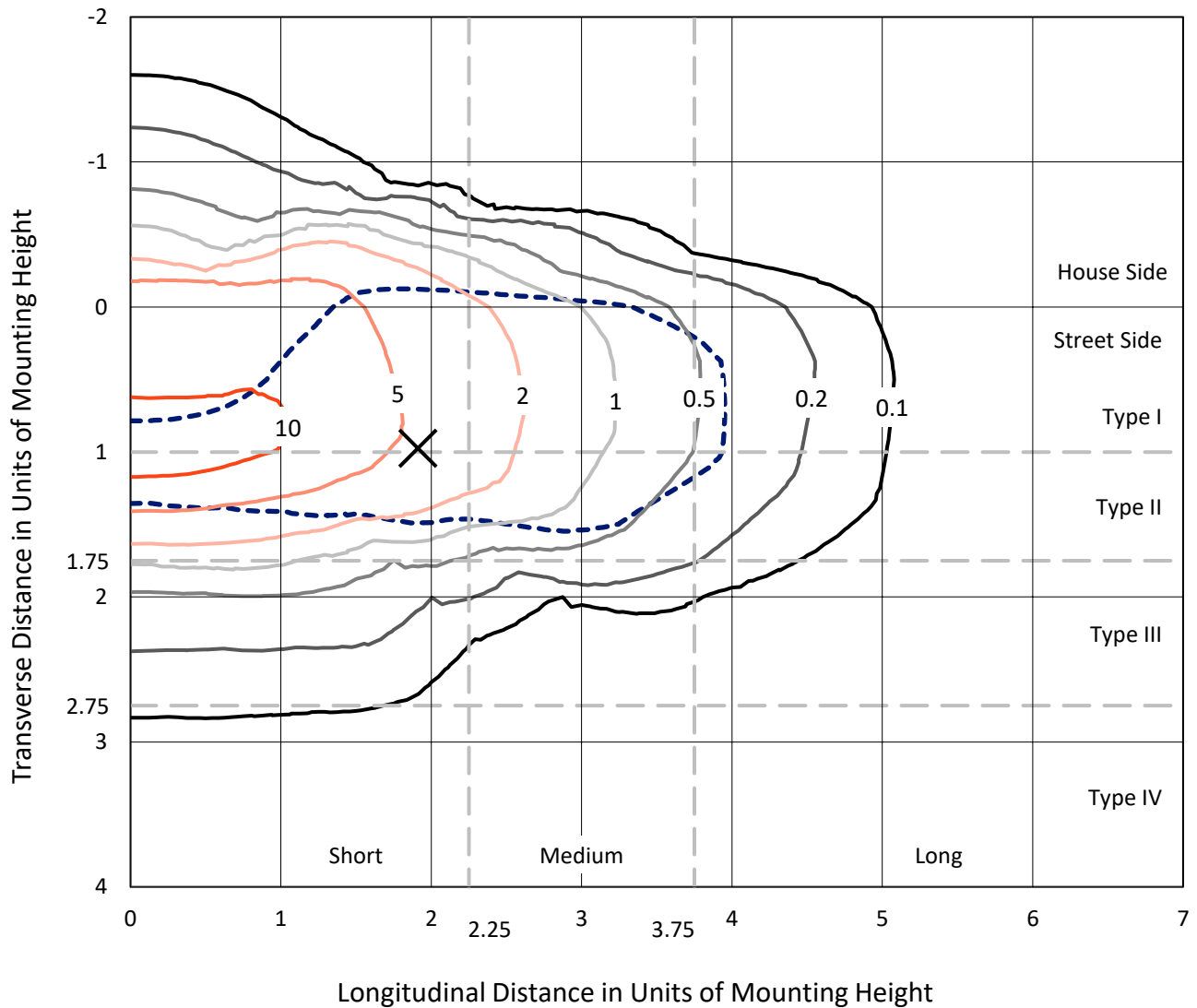
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

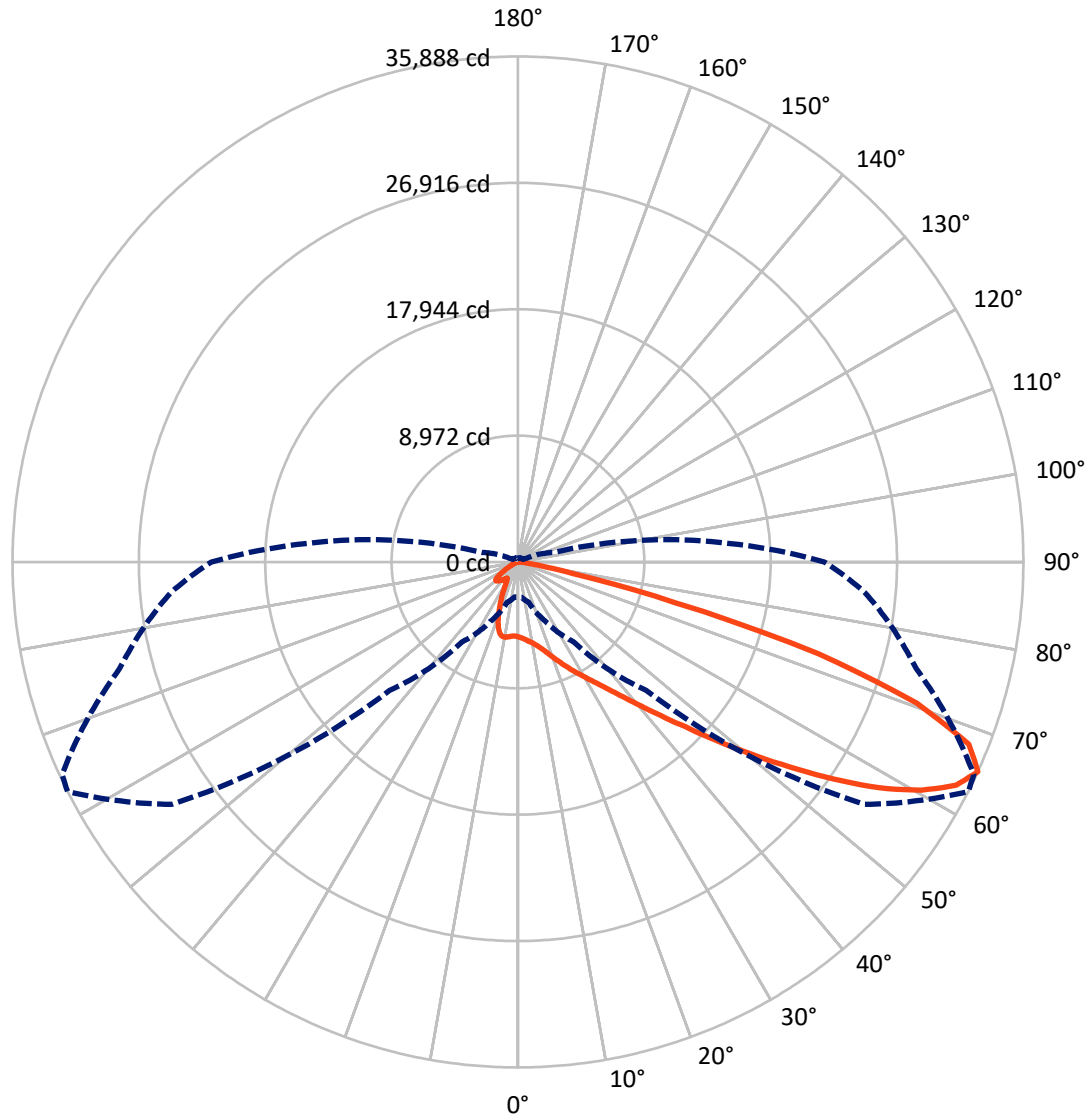
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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
House Side	Lumens	6329.9	0.0	6329.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36733.1	0.0	36733.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	43063.0	0.0	43063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.8	1.2
10°-20°	1389.4	3.2
20°-30°	2419.3	5.6
30°-40°	4360.5	10.1
40°-50°	8648.4	20.1
50°-60°	11780.5	27.4
60°-70°	9403.1	21.8
70°-80°	4255.1	9.9
80°-90°	305.9	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°	43063.0	100.0
0°-180°	43063.0	100.0

Coefficient of Utilization



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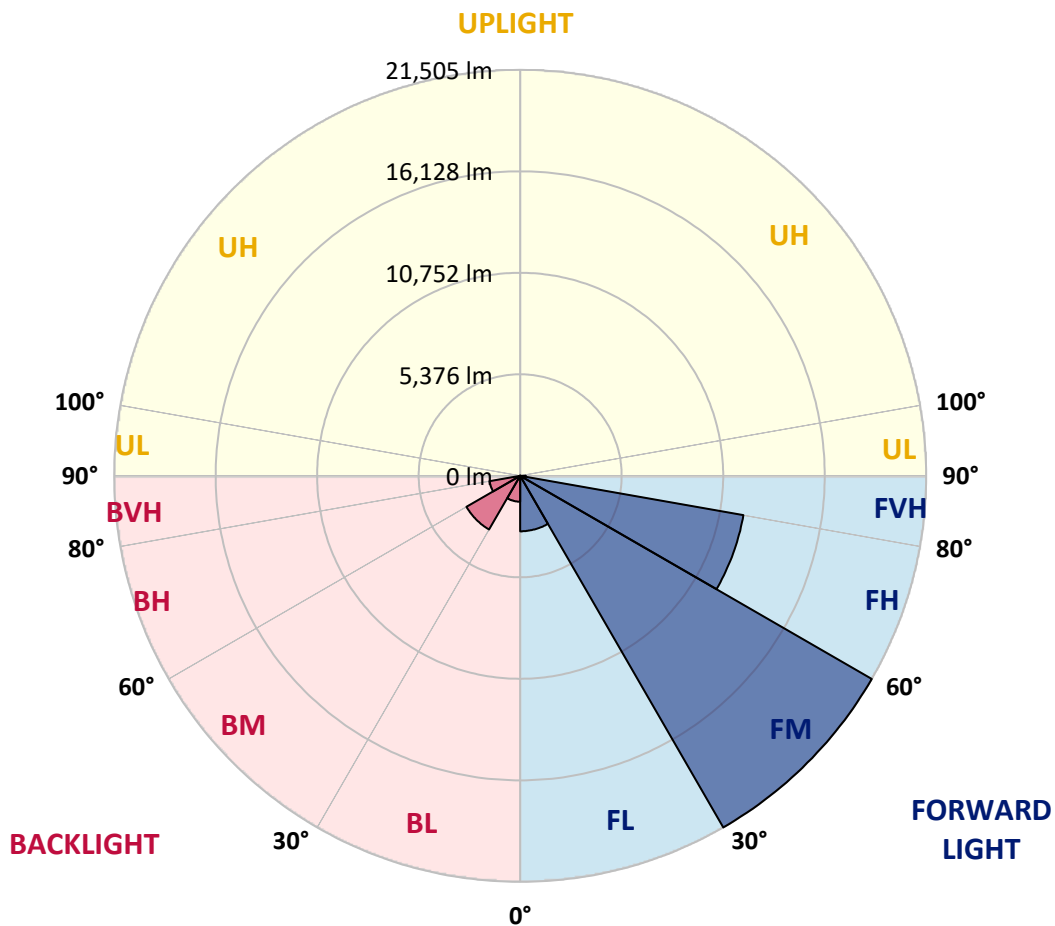
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2939.6	6.8			
FM (30°-60°)	21504.6	49.9			
FH (60°-80°)	12005.8	27.9			G5
FVH (80°-90°)	283.2	0.7			G3/500
BL (0°-30°)	1369.9	3.2	B3/2500		
BM (30°-60°)	3284.8	7.6	B3/5000		
BH (60°-80°)	1652.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	22.7	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-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8
2.5°	5439.2	5424.4	5445.1	5436.3	5430.3	5418.5	5412.6	5406.6	5394.8	5385.9
5°	5454.0	5445.1	5465.9	5483.7	5501.4	5519.2	5528.1	5539.9	5528.1	5504.4
7.5°	5329.6	5323.7	5368.1	5421.4	5501.4	5569.6	5643.6	5685.1	5688.1	5679.2
10°	5320.7	5305.9	5350.3	5415.5	5519.2	5640.7	5771.0	5859.9	5871.7	5910.3
12.5°	5460.0	5445.1	5507.4	5578.5	5685.1	5812.5	5972.5	6096.9	6114.7	6168.0
15°	5694.0	5673.3	5744.4	5836.2	5972.5	6117.6	6286.5	6399.1	6413.9	6479.1
17.5°	5966.5	5945.8	6028.8	6126.5	6274.6	6473.1	6668.7	6793.1	6810.9	6852.3
20°	6316.1	6289.5	6354.6	6443.5	6600.5	6837.5	7071.6	7249.3	7246.4	7246.4
22.5°	6722.0	6680.5	6736.8	6807.9	6956.0	7243.4	7554.5	7764.8	7764.8	7681.9
25°	7157.5	7116.0	7178.2	7243.4	7373.7	7699.6	8064.0	8324.7	8336.6	8194.4
27.5°	7702.6	7649.3	7696.7	7773.7	7850.7	8182.5	8615.1	8917.2	8923.2	8703.9
30°	8751.3	8600.2	8452.1	8369.2	8404.7	8733.6	9195.7	9530.5	9560.1	9257.9
32.5°	10671.1	10641.4	10120.0	9438.6	9083.1	9326.1	9844.5	10247.4	10265.2	9877.1
35°	13654.3	13618.8	12780.4	11482.8	10324.4	10120.0	10632.5	11109.5	11097.7	10659.2
37.5°	17215.3	17182.7	16077.7	14341.6	12466.3	11319.8	11648.7	12149.4	12223.4	11648.7
40°	20257.8	20136.4	19437.2	17763.4	15310.4	13310.7	13094.4	13426.2	13503.2	12821.9
42.5°	22562.7	22459.0	22103.5	21057.7	18752.8	16255.4	14797.9	14925.3	15011.2	14193.5
45°	23756.6	23732.9	23875.1	23777.3	22260.5	19869.7	17233.1	16702.8	16735.4	15713.3
47.5°	23925.4	23913.6	24562.4	25480.8	25276.3	23946.2	20358.5	18918.7	18803.2	17428.6
50°	22930.0	22906.3	24150.6	25871.8	27290.9	27370.9	23907.7	21416.2	21161.4	19203.2
52.5°	19751.2	19745.3	21789.4	24654.2	27998.9	30368.9	27415.3	24159.5	23732.9	21081.4
55°	15197.8	15307.4	17650.8	21037.0	26707.3	31811.7	30564.5	27205.0	26550.2	22971.5
57.5°	10765.9	10925.8	13242.5	16258.4	22701.9	30958.5	32694.5	30256.4	29551.3	24855.7
60°	5782.9	5925.1	8244.7	11844.2	16889.4	27776.7	33817.3	32904.9	32238.3	26645.0
62.5°	3445.4	3492.8	4452.7	7646.3	11423.5	21220.6	33340.4	34922.4	34374.3	28147.0
65°	2473.7	2482.6	2965.5	4669.0	6935.3	12893.0	29995.7	35888.1	35719.3	29278.7
67.5°	2082.7	2076.7	2278.2	3101.8	4725.2	6458.3	22989.3	34522.4	35239.4	29995.7
70°	1786.4	1795.3	2032.3	2272.3	3552.1	3655.8	11429.5	30057.9	31586.5	30185.3
72.5°	1330.2	1359.8	1579.0	2070.8	2681.1	2515.2	3946.1	22287.2	25051.2	28440.3
75°	939.1	953.9	1111.0	1742.0	1999.7	1830.8	2014.5	11521.3	15064.5	21804.3
77.5°	722.9	749.5	841.4	1217.6	1970.1	1285.7	1232.4	3987.6	6126.5	13171.4
80°	391.1	438.5	607.3	879.9	1383.5	909.5	610.3	1587.9	2076.7	6159.1
82.5°	201.5	225.2	423.6	634.0	788.0	794.0	302.2	660.6	856.2	1901.9
85°	80.0	97.8	284.4	349.6	405.9	391.1	136.3	266.6	308.1	527.3
87.5°	17.8	29.6	103.7	80.0	77.0	83.0	32.6	62.2	59.3	62.2
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°
5314.8	0°	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8	5314.8
5350.3	2.5°	5347.4	5335.5	5302.9	5267.4	5225.9	5202.2	5187.4	5184.4	5163.7	5148.9
5468.8	5°	5436.3	5424.4	5362.2	5288.1	5208.1	5145.9	5086.7	5033.3	4956.3	4941.5
5640.7	7.5°	5614.0	5581.4	5480.7	5380.0	5228.9	5048.2	4828.9	4577.1	4352.0	4283.8
5868.8	10°	5833.2	5788.8	5661.4	5483.7	5148.9	4657.1	4126.8	3635.0	3244.0	3134.4
6138.4	12.5°	6082.1	6043.6	5874.7	5545.9	4814.1	3922.4	3110.7	2500.4	2121.2	2026.4
6425.7	15°	6378.3	6322.0	6088.0	5451.1	4215.7	2980.3	2136.0	1774.6	1638.3	1620.5
6754.6	17.5°	6692.4	6600.5	6277.6	5110.4	3409.9	2118.2	1650.1	1546.4	1487.2	1469.4
7086.4	20°	6979.7	6861.2	6390.2	4594.9	2547.8	1650.1	1478.3	1410.2	1356.8	1336.1
7418.2	22.5°	7267.1	7098.2	6390.2	3892.8	1910.8	1463.5	1356.8	1294.6	1232.4	1205.8
7773.7	25°	7566.3	7341.2	6277.6	3110.7	1537.6	1342.0	1241.3	1173.2	1119.8	1087.3
8111.4	27.5°	7856.6	7545.6	6019.9	2370.0	1368.7	1235.4	1134.7	1069.5	1019.1	995.4
8478.8	30°	8132.2	7747.0	5658.4	1798.3	1259.1	1131.7	1036.9	980.6	930.2	906.5
8955.7	32.5°	8505.4	8001.8	5273.3	1475.3	1164.3	1033.9	948.0	894.7	850.2	832.5
9574.9	35°	9023.9	8378.0	4941.5	1448.7	1084.3	953.9	868.0	817.7	773.2	758.4
10374.8	37.5°	9758.6	8985.4	4766.7	1626.4	1019.1	882.8	802.8	749.5	708.0	696.2
11390.9	40°	10665.1	9809.0	4861.5	1804.2	974.7	820.6	743.6	690.3	654.7	639.9
12558.2	42.5°	11740.5	10825.1	5385.9	1940.5	945.0	767.3	687.3	628.1	604.4	598.4
13882.4	45°	12975.9	11942.0	6188.7	2085.6	897.6	716.9	631.0	586.6	568.8	565.8
15322.2	47.5°	14380.1	13168.5	7119.0	2266.3	850.2	669.5	586.6	557.0	542.1	536.2
16824.2	50°	15772.5	14403.8	8075.9	2367.1	811.7	625.1	551.0	527.3	515.5	512.5
18412.2	52.5°	17230.1	15674.8	8849.1	2272.3	779.1	589.5	521.4	503.6	491.8	488.8
19875.6	55°	18619.5	16702.8	8982.4	1928.6	714.0	554.0	488.8	479.9	465.1	465.1
21359.9	57.5°	19816.4	17218.3	8040.3	1416.1	648.8	500.7	456.2	447.3	435.5	432.5
22698.9	60°	20915.5	17070.1	6206.5	953.9	577.7	447.3	414.8	408.8	397.0	382.2
23863.2	62.5°	21534.7	16418.4	4245.3	622.1	506.6	391.1	367.4	364.4	337.7	308.1
24725.3	65°	21768.7	15079.3	2648.5	453.3	423.6	334.8	317.0	311.1	272.6	240.0
25214.1	67.5°	21564.3	12875.2	1336.1	358.5	334.8	278.5	260.7	260.7	234.0	204.4
25184.5	70°	20746.6	9651.9	562.9	287.4	257.7	213.3	213.3	225.2	198.5	165.9
23878.0	72.5°	18972.1	6493.9	299.2	219.2	192.6	151.1	174.8	183.7	157.0	124.4
19543.8	75°	15082.3	3960.9	207.4	162.9	121.5	106.7	133.3	139.2	106.7	83.0
13399.5	77.5°	10315.5	2275.2	139.2	103.7	77.0	62.2	91.8	85.9	56.3	38.5
5166.7	80°	4529.7	948.0	80.0	47.4	29.6	23.7	32.6	23.7	17.8	11.9
708.0	82.5°	530.3	222.2	29.6	17.8	11.9	5.9	3.0	0.0	0.0	0.0
216.3	85°	109.6	26.7	14.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
38.5	87.5°	20.7	5.9	3.0	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>
5314.8
5163.7
4935.6
4251.2
3092.9
1999.7
1602.7
1460.5
1324.3
1190.9
1075.4
995.4
909.5
832.5
758.4
693.2
636.9
598.4
562.9
536.2
512.5
488.8
462.2
429.6
379.2
302.2
237.0
201.5
162.9
124.4
80.0
41.5
11.9
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