

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: P951357

Luminaire Tested: **GALN-SB5C-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951357  
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-SB5C-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

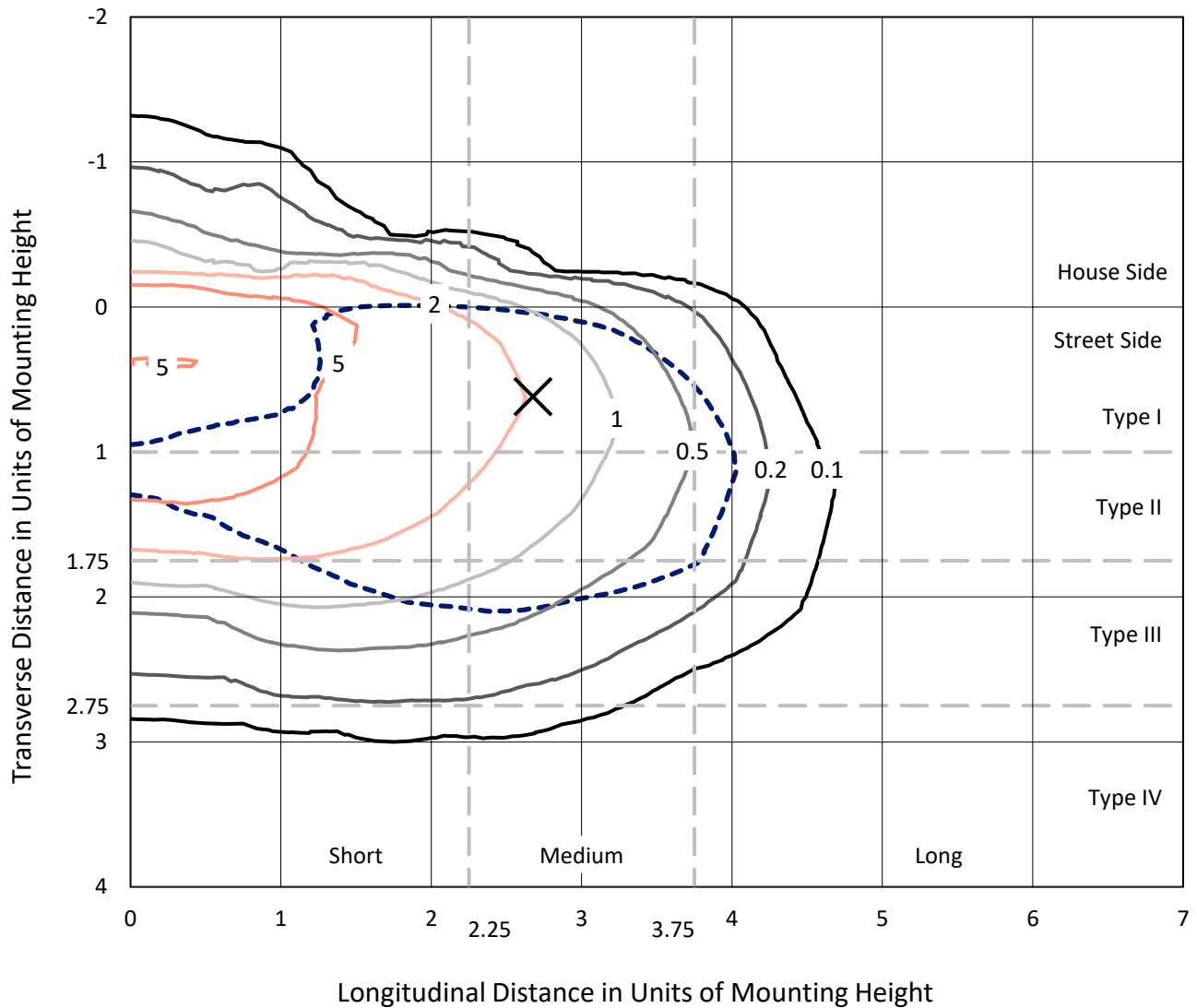
Lumens per Lamp: N/A  
Luminaire Lumens: 33321 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

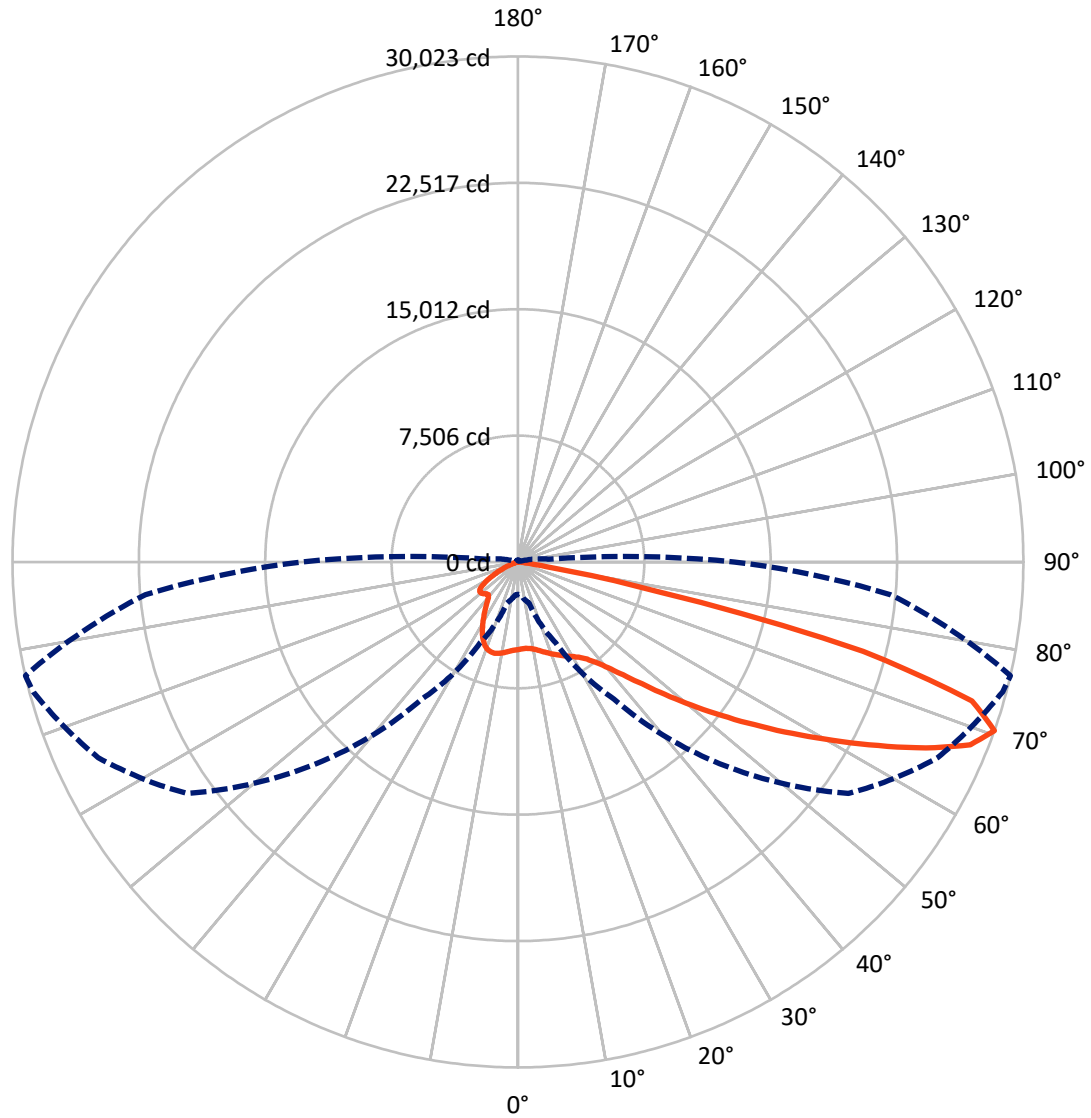
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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
<b>House Side</b>	Lumens	3512.5	0.0	3512.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	29808.5	0.0	29808.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	33321.0	0.0	33321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.9	1.3
10°-20°	1063.4	3.2
20°-30°	1644.7	4.9
30°-40°	2984.4	9.0
40°-50°	5633.5	16.9
50°-60°	8139.9	24.4
60°-70°	8664.7	26.0
70°-80°	4591.7	13.8
80°-90°	150.8	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°	33321.0	100.0
0°-180°	33321.0	100.0

**Coefficient of Utilization**



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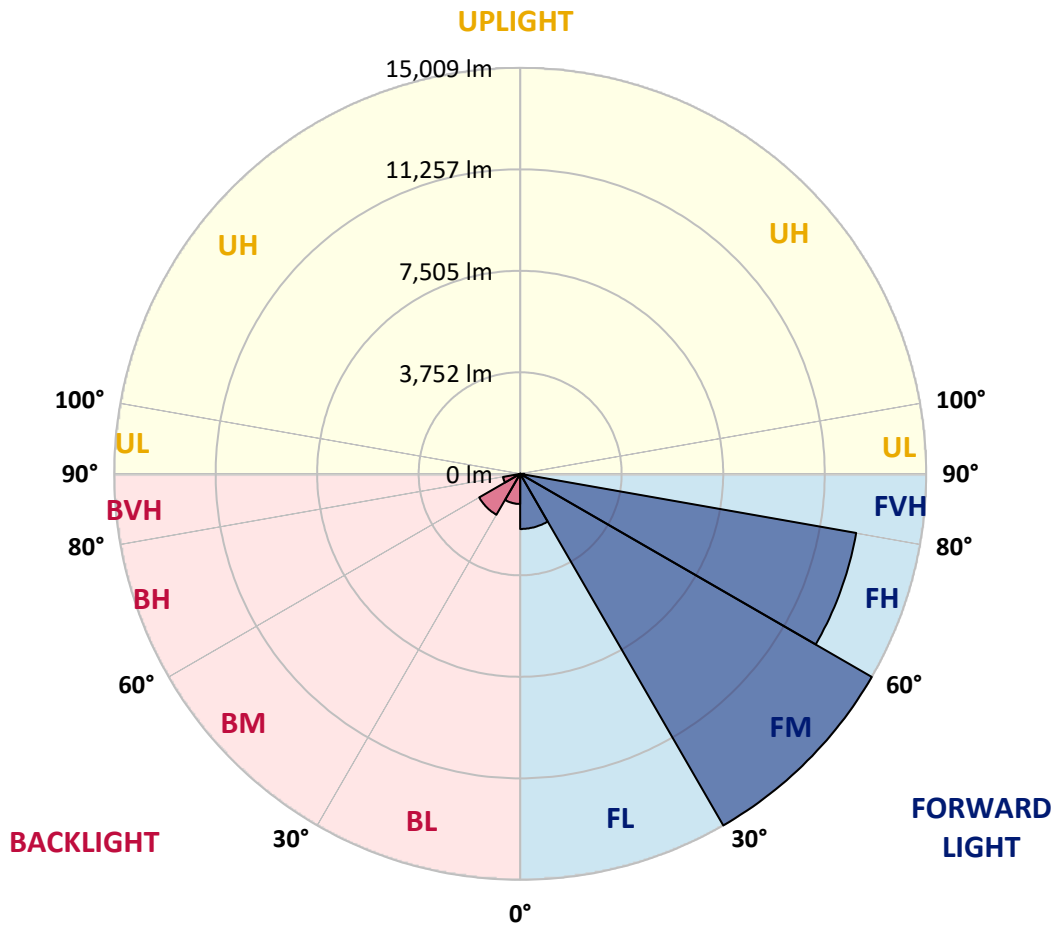
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.0	6.1			
FM (30°-60°)	15009.3	45.0			
FH (60°-80°)	12612.5	37.9			G5
FVH (80°-90°)	146.7	0.4			G2/225
BL (0°-30°)	1116.0	3.3	B3/2500		
BM (30°-60°)	1748.5	5.2	B2/2500		
BH (60°-80°)	643.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5
2.5°	4879.7	4923.9	4917.6	4947.1	4957.6	4999.7	5041.8	5098.6	5161.7	5159.6
5°	4604.1	4648.3	4658.8	4698.8	4749.3	4814.5	4900.8	5014.4	5132.2	5151.2
7.5°	4277.9	4324.2	4351.6	4431.5	4524.1	4658.8	4799.8	4966.0	5161.7	5189.1
10°	3951.8	3993.8	4029.6	4143.2	4290.5	4490.4	4719.8	4959.7	5222.7	5262.7
12.5°	3749.8	3789.7	3829.7	3928.6	4111.7	4355.8	4667.2	4989.2	5323.7	5380.5
15°	3678.2	3714.0	3745.5	3833.9	4004.4	4282.1	4656.7	5050.2	5452.1	5527.8
17.5°	3688.7	3707.7	3728.7	3796.0	3962.3	4248.5	4675.6	5155.4	5603.6	5670.9
20°	3749.8	3760.3	3762.4	3808.7	3956.0	4244.3	4713.5	5256.4	5746.7	5837.2
22.5°	3827.6	3831.8	3827.6	3859.2	3996.0	4275.8	4764.0	5378.4	5906.6	5990.8
25°	4191.6	4111.7	4010.7	3949.7	4063.3	4336.8	4839.8	5542.6	6081.3	6163.3
27.5°	5321.6	5092.3	4730.3	4324.2	4202.2	4425.2	4945.0	5708.8	6258.0	6331.7
30°	7156.5	6855.6	6241.2	5325.8	4648.3	4610.4	5081.7	5875.0	6445.3	6525.3
32.5°	8995.6	8922.0	8212.9	6946.1	5652.0	5022.8	5309.0	6100.2	6693.6	6756.7
35°	10855.8	10706.4	10125.6	8873.6	7198.6	5862.4	5687.8	6394.8	7019.7	7091.3
37.5°	12280.3	12189.9	11830.0	10799.0	9033.5	7158.6	6335.9	6851.4	7493.2	7573.2
40°	13538.7	13496.6	13374.6	12694.9	11085.1	8854.6	7343.8	7558.4	8149.7	8244.4
42.5°	14527.7	14626.6	14696.0	14506.6	13199.9	10790.5	8698.9	8551.6	9065.1	9161.9
45°	15539.8	15573.5	15853.3	16126.9	15299.9	12814.8	10226.6	9715.3	10203.5	10323.4
47.5°	16190.0	16324.7	16817.1	17299.0	17065.4	14822.3	11867.9	11089.3	11522.8	11748.0
50°	16238.4	16493.0	17170.6	18010.2	18351.1	16732.9	13652.3	12654.9	13115.7	13364.0
52.5°	15432.5	15828.1	16878.1	18107.0	19045.5	18351.1	15497.7	14220.5	14811.7	15135.8
55°	11832.1	12349.8	15777.6	17580.9	19072.8	19577.9	17294.8	15851.2	16701.4	17067.5
57.5°	10308.7	10569.6	12404.5	16667.7	18565.7	20072.4	18919.2	17404.2	18757.2	19211.7
60°	8576.9	8919.9	10403.4	15173.7	17877.6	20120.7	20354.3	19407.4	20985.6	21496.9
62.5°	5828.7	6201.2	7676.3	12606.5	16937.0	20097.6	21530.6	21469.6	23462.3	24011.5
65°	3610.9	3844.4	4816.6	10293.9	15621.9	20122.9	22761.6	23973.6	26075.7	26633.4
67.5°	2853.4	2960.7	3467.8	7903.5	13355.6	19554.7	23990.4	26328.3	28535.6	28977.5
70°	1917.0	1982.2	2523.0	5298.5	9936.2	16932.8	23967.3	27510.8	29802.4	30023.3
72.5°	1010.0	1060.5	1475.1	2453.5	6001.3	12036.3	20202.8	26096.8	28541.9	28209.4
75°	505.0	589.2	993.2	1245.7	2563.0	6712.5	12545.5	20575.3	22464.9	21177.1
77.5°	383.0	462.9	820.7	820.7	892.2	2260.0	5313.2	11221.9	10350.8	8619.0
80°	244.1	315.6	717.5	620.8	372.5	574.5	1384.6	3143.7	2198.9	1672.9
82.5°	143.1	206.2	597.6	410.3	208.3	212.5	391.4	669.1	570.2	444.0
85°	56.8	134.7	410.3	162.0	82.1	52.6	117.8	143.1	117.8	88.4
87.5°	0.0	31.6	71.5	0.0	6.3	4.2	8.4	10.5	10.5	8.4
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°
5197.5	0°	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5	5197.5
5201.7	2.5°	5220.6	5224.8	5237.5	5239.6	5210.1	5172.2	5157.5	5151.2	5125.9	5123.8
5235.4	5°	5283.7	5302.7	5283.7	5229.0	5098.6	4915.5	4776.6	4663.0	4559.9	4528.3
5351.1	7.5°	5410.0	5428.9	5372.1	5157.5	4829.2	4465.2	4136.9	3905.5	3697.2	3619.3
5492.1	10°	5591.0	5616.2	5437.4	5003.9	4423.1	3838.1	3282.6	2891.2	2586.1	2462.0
5683.6	12.5°	5818.2	5828.7	5473.1	4770.3	3894.9	3059.6	2272.6	1853.8	1582.4	1481.4
5915.0	15°	6068.6	6053.9	5477.3	4452.6	3175.3	2163.2	1483.5	1218.4	1108.9	1075.3
6146.5	17.5°	6331.7	6270.6	5393.2	3993.8	2386.2	1479.3	1100.5	1037.4	1018.5	1010.0
6375.8	20°	6590.5	6453.7	5239.6	3394.1	1712.9	1104.7	999.5	980.6	970.1	965.8
6607.3	22.5°	6826.2	6592.6	4976.5	2697.6	1243.6	976.4	944.8	928.0	909.0	900.6
6832.5	25°	7055.5	6672.5	4606.2	2047.4	995.3	913.2	888.0	856.4	831.2	820.7
7074.5	27.5°	7278.6	6723.0	4143.2	1515.1	888.0	854.3	808.0	763.8	744.9	740.7
7333.3	30°	7516.3	6739.9	3617.2	1130.0	822.8	780.7	713.3	662.8	652.3	654.4
7682.6	32.5°	7806.7	6765.1	3086.9	925.9	768.0	692.3	612.3	559.7	551.3	559.7
8191.8	35°	8153.9	6815.6	2575.6	852.2	719.7	601.8	515.5	471.3	462.9	469.2
8844.1	37.5°	8625.3	6897.7	2097.9	837.5	679.7	526.1	433.5	397.7	397.7	399.8
9643.7	40°	9252.3	7116.5	1670.8	827.0	658.6	469.2	366.1	351.4	357.7	361.9
10662.2	42.5°	10016.2	7581.6	1382.5	814.3	635.5	444.0	332.5	326.2	336.7	340.9
11882.6	45°	10872.6	8170.8	1281.5	793.3	614.4	460.8	317.7	309.3	321.9	324.1
13250.4	47.5°	11758.5	8747.3	1268.9	770.2	593.4	486.1	313.5	294.6	309.3	311.4
14710.7	50°	12654.9	9124.0	1281.5	734.4	559.7	486.1	315.6	279.9	292.5	298.8
16225.8	52.5°	13557.6	9296.5	1273.1	656.5	500.8	456.6	315.6	267.2	279.9	284.1
17862.9	55°	14433.0	9262.9	1144.7	540.8	425.1	404.0	307.2	256.7	265.1	267.2
19409.5	57.5°	15125.3	8793.6	906.9	420.8	345.1	336.7	279.9	244.1	250.4	248.3
20827.8	60°	15487.2	7762.5	648.1	324.1	271.4	265.1	246.2	227.3	231.5	220.9
22029.3	62.5°	15491.4	6399.0	433.5	256.7	216.7	210.4	210.4	204.1	199.9	178.9
22959.4	65°	15161.1	4886.0	288.3	204.1	174.7	164.1	176.8	174.7	159.9	130.5
23243.4	67.5°	14411.9	3202.7	218.8	159.9	134.7	128.4	141.0	147.3	136.8	109.4
22208.2	70°	12871.6	1864.4	181.0	124.2	101.0	94.7	113.6	126.3	113.6	88.4
18982.4	72.5°	10691.6	1005.8	147.3	92.6	69.4	63.1	90.5	103.1	90.5	65.2
12179.3	75°	6937.7	538.7	113.6	61.0	35.8	40.0	67.3	75.8	63.1	42.1
3575.1	77.5°	2329.4	237.8	71.5	29.5	16.8	16.8	40.0	46.3	29.5	14.7
650.2	80°	519.7	98.9	29.5	12.6	6.3	6.3	8.4	8.4	4.2	0.0
199.9	82.5°	170.4	40.0	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
50.5	85°	65.2	14.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.8	87.5°	25.3	2.1	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>
5197.5
5128.0
4509.4
3587.7
2409.4
1449.8
1075.3
1007.9
961.6
898.5
816.4
736.5
654.4
557.6
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