

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: P951336

Luminaire Tested: **GALN-SB5C-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951336  
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-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

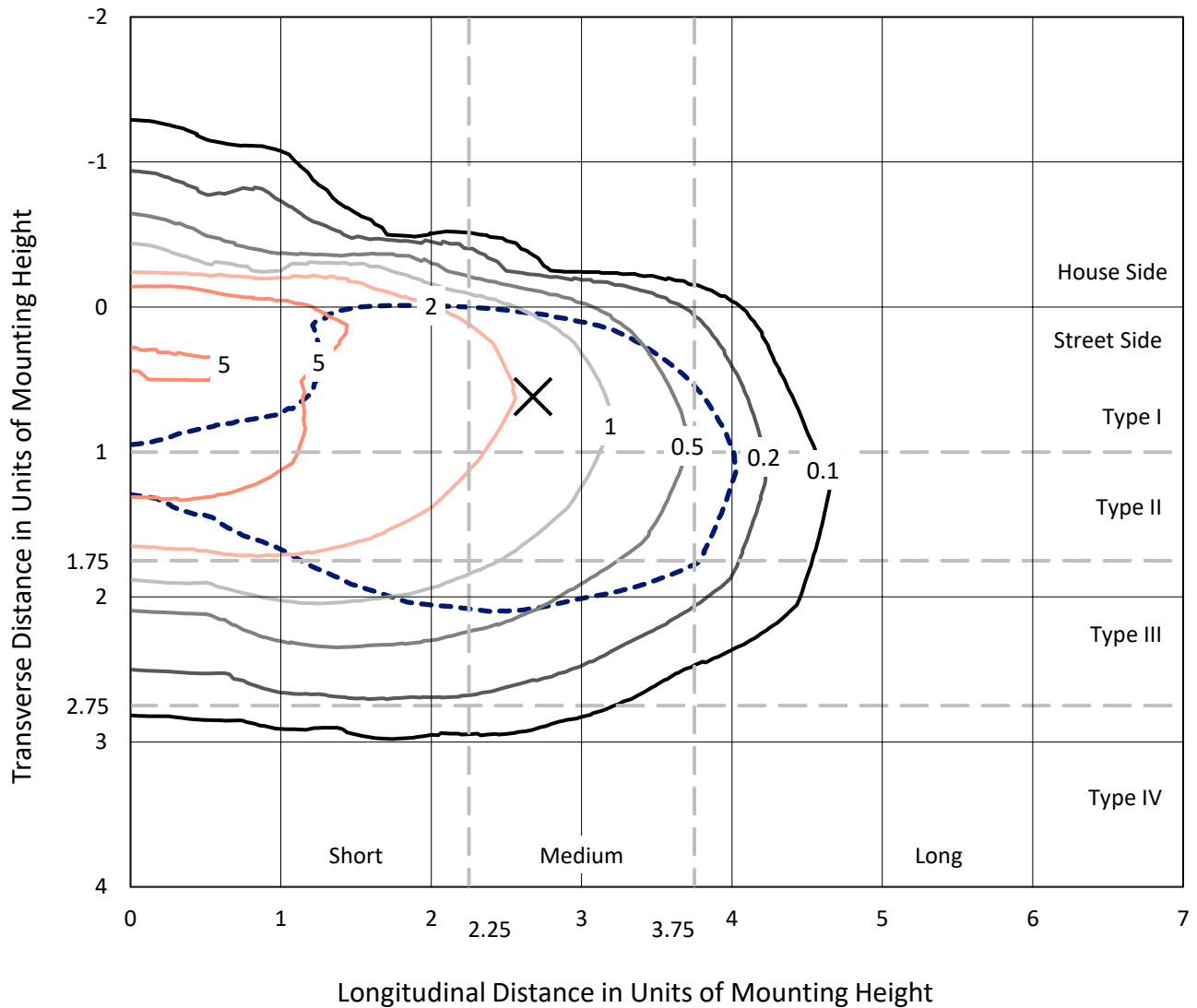
Lumens per Lamp: N/A  
Luminaire Lumens: 31496 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

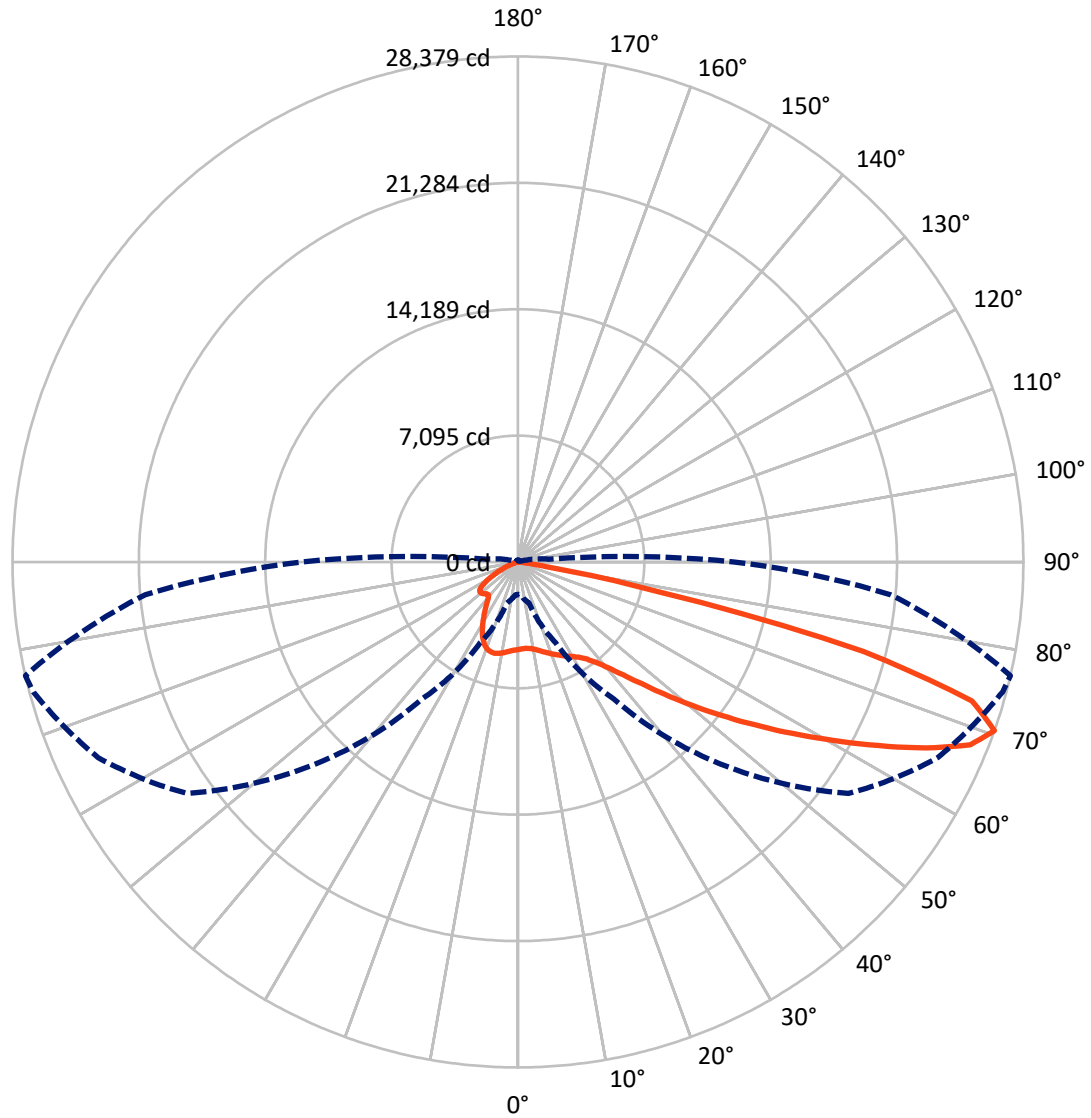
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P951336  
CATALOG NUMBER: GALN-SB5C-735-U-T3R-HSS

### 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	3320.1	0.0	3320.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	28175.9	0.0	28175.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	31496.0	0.0	31496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.4	1.3
10°-20°	1005.1	3.2
20°-30°	1554.6	4.9
30°-40°	2821.0	9.0
40°-50°	5324.9	16.9
50°-60°	7694.1	24.4
60°-70°	8190.1	26.0
70°-80°	4340.2	13.8
80°-90°	142.5	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°	31496.0	100.0
0°-180°	31496.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951336

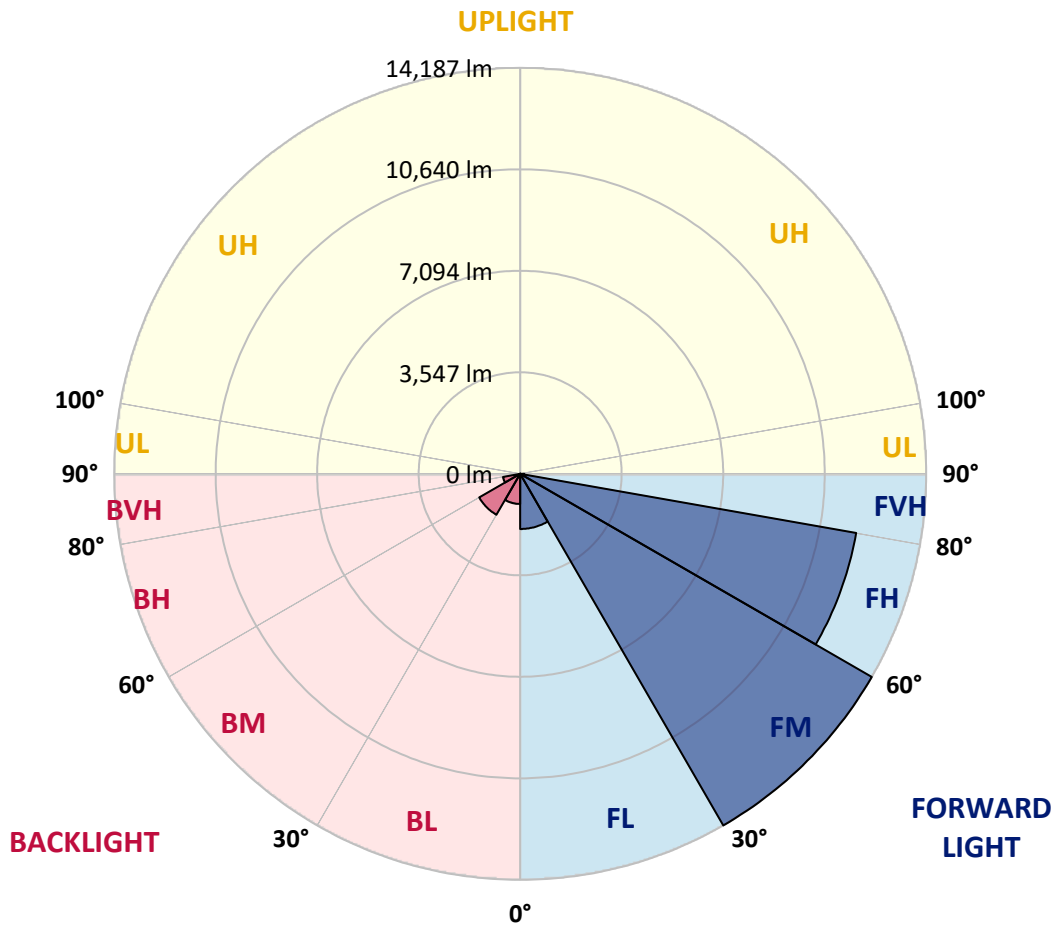
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.3	6.1			
FM (30°-60°)	14187.2	45.0			
FH (60°-80°)	11921.7	37.9			G4/12000
FVH (80°-90°)	138.7	0.4			G2/225
BL (0°-30°)	1054.9	3.3	B3/2500		
BM (30°-60°)	1652.8	5.2	B2/2500		
BH (60°-80°)	608.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8
2.5°	4612.5	4654.2	4648.3	4676.1	4686.1	4725.8	4765.6	4819.3	4879.0	4877.0
5°	4351.9	4393.7	4403.6	4441.4	4489.2	4550.8	4632.4	4739.8	4851.1	4869.0
7.5°	4043.6	4087.4	4113.2	4188.8	4276.3	4403.6	4536.9	4694.0	4879.0	4904.9
10°	3735.3	3775.1	3808.9	3916.3	4055.6	4244.5	4461.3	4688.1	4936.7	4974.5
12.5°	3544.4	3582.2	3620.0	3713.4	3886.5	4117.2	4411.6	4715.9	5032.1	5085.8
15°	3476.8	3510.6	3540.4	3623.9	3785.0	4047.6	4401.6	4773.6	5153.5	5225.1
17.5°	3486.7	3504.6	3524.5	3588.1	3745.3	4015.8	4419.5	4873.0	5296.7	5360.3
20°	3544.4	3554.3	3556.3	3600.1	3739.3	4011.8	4455.3	4968.5	5431.9	5517.5
22.5°	3618.0	3622.0	3618.0	3647.8	3777.1	4041.6	4503.1	5083.9	5583.1	5662.7
25°	3962.1	3886.5	3791.0	3733.3	3840.7	4099.3	4574.7	5239.0	5748.2	5825.8
27.5°	5030.2	4813.4	4471.3	4087.4	3972.0	4182.8	4674.1	5396.1	5915.3	5984.9
30°	6764.6	6480.1	5899.3	5034.1	4393.7	4357.9	4803.4	5553.3	6092.3	6167.9
32.5°	8502.9	8433.3	7763.0	6565.7	5342.4	4747.7	5018.2	5766.1	6327.0	6386.6
35°	10261.2	10120.0	9571.0	8387.6	6804.3	5541.3	5376.2	6044.5	6635.3	6702.9
37.5°	11607.8	11522.2	11182.1	10207.5	8538.7	6766.5	5988.9	6476.2	7082.8	7158.4
40°	12797.2	12757.4	12642.0	11999.6	10478.0	8369.7	6941.6	7144.5	7703.4	7792.9
42.5°	13732.0	13825.5	13891.1	13712.1	12476.9	10199.5	8222.5	8083.3	8568.6	8660.1
45°	14688.7	14720.5	14985.1	15243.6	14462.0	12113.0	9666.5	9183.2	9644.6	9758.0
47.5°	15303.3	15430.6	15896.0	16351.5	16130.7	14010.5	11217.9	10482.0	10891.7	11104.5
50°	15349.0	15589.7	16230.2	17023.8	17346.0	15816.5	12904.6	11961.8	12397.4	12632.1
52.5°	14587.3	14961.2	15953.7	17115.3	18002.4	17346.0	14648.9	13441.6	14000.5	14306.8
55°	11184.1	11673.4	14913.5	16618.0	18028.2	18505.6	16347.5	14983.1	15786.6	16132.7
57.5°	9744.1	9990.7	11725.1	15754.8	17548.9	18973.0	17883.0	16450.9	17729.9	18159.5
60°	8107.1	8431.3	9833.6	14342.6	16898.5	19018.7	19239.5	18344.5	19836.2	20319.5
62.5°	5509.5	5861.6	7255.8	11916.0	16009.4	18996.9	20351.4	20293.7	22177.2	22696.4
65°	3413.1	3633.9	4552.8	9730.1	14766.3	19020.7	21514.9	22660.6	24647.6	25174.7
67.5°	2697.1	2798.5	3277.9	7470.6	12624.1	18483.7	22676.5	24886.3	26972.7	27390.4
70°	1812.0	1873.6	2384.8	5008.3	9392.0	16005.4	22654.6	26004.1	28170.1	28378.9
72.5°	954.7	1002.5	1394.3	2319.2	5672.6	11377.0	19096.3	24667.5	26978.7	26664.4
75°	477.4	556.9	938.8	1177.5	2422.6	6344.9	11858.4	19448.4	21234.5	20017.2
77.5°	362.0	437.6	775.7	775.7	843.3	2136.2	5022.2	10607.3	9783.8	8146.9
80°	230.7	298.3	678.2	586.8	352.1	543.0	1308.8	2971.6	2078.5	1581.2
82.5°	135.3	194.9	564.9	387.9	196.9	200.9	370.0	632.5	539.0	419.7
85°	53.7	127.3	387.9	153.2	77.6	49.7	111.4	135.3	111.4	83.5
87.5°	0.0	29.8	67.6	0.0	6.0	4.0	8.0	9.9	9.9	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951336  
 CATALOG NUMBER: GALN-SB5C-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4912.8	0°	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8	4912.8
4916.8	2.5°	4934.7	4938.7	4950.6	4952.6	4924.7	4888.9	4875.0	4869.0	4845.2	4843.2
4948.6	5°	4994.4	5012.3	4994.4	4942.6	4819.3	4646.3	4515.0	4407.6	4310.1	4280.3
5058.0	7.5°	5113.7	5131.6	5077.9	4875.0	4564.7	4220.6	3910.4	3691.6	3494.7	3421.1
5191.3	10°	5284.7	5308.6	5139.6	4729.8	4180.9	3627.9	3102.8	2732.9	2444.5	2327.1
5372.3	12.5°	5499.6	5509.5	5173.4	4509.0	3681.6	2892.0	2148.1	1752.3	1495.7	1400.2
5591.1	15°	5736.2	5722.3	5177.3	4208.7	3001.4	2044.7	1402.2	1151.6	1048.2	1016.4
5809.8	17.5°	5984.9	5927.2	5097.8	3775.1	2255.5	1398.3	1040.2	980.6	962.7	954.7
6026.6	20°	6229.5	6100.2	4952.6	3208.2	1619.0	1044.2	944.8	926.9	916.9	912.9
6245.4	22.5°	6452.3	6231.5	4704.0	2549.9	1175.5	922.9	893.1	877.1	859.2	851.3
6458.3	25°	6669.1	6307.1	4353.9	1935.3	940.8	863.2	839.4	809.5	785.7	775.7
6687.0	27.5°	6879.9	6354.8	3916.3	1432.1	839.4	807.5	763.8	722.0	704.1	700.1
6931.6	30°	7104.7	6370.7	3419.1	1068.1	777.7	737.9	674.3	626.5	616.6	618.6
7261.8	32.5°	7379.2	6394.6	2917.8	875.2	726.0	654.4	578.8	529.1	521.1	529.1
7743.1	35°	7707.3	6442.3	2434.5	805.5	680.2	568.9	487.3	445.5	437.6	443.5
8359.7	37.5°	8152.9	6519.9	1983.0	791.6	642.4	497.2	409.7	375.9	375.9	377.9
9115.5	40°	8745.6	6726.8	1579.3	781.7	622.6	443.5	346.1	332.2	338.1	342.1
10078.2	42.5°	9467.6	7166.3	1306.8	769.7	600.7	419.7	314.3	308.3	318.2	322.2
11231.8	45°	10277.1	7723.3	1211.3	749.8	580.8	435.6	300.3	292.4	304.3	306.3
12524.7	47.5°	11114.5	8268.2	1199.4	728.0	560.9	459.5	296.4	278.5	292.4	294.4
13905.0	50°	11961.8	8624.3	1211.3	694.2	529.1	459.5	298.3	264.5	276.5	282.4
15337.1	52.5°	12815.1	8787.4	1203.3	620.6	473.4	431.6	298.3	252.6	264.5	268.5
16884.5	55°	13642.5	8755.5	1082.0	511.2	401.8	381.9	290.4	242.7	250.6	252.6
18346.5	57.5°	14296.9	8312.0	857.3	397.8	326.2	318.2	264.5	230.7	236.7	234.7
19687.0	60°	14639.0	7337.4	612.6	306.3	256.6	250.6	232.7	214.8	218.8	208.8
20822.7	62.5°	14642.9	6048.5	409.7	242.7	204.9	198.9	198.9	192.9	189.0	169.1
21701.9	65°	14330.7	4618.4	272.5	192.9	165.1	155.1	167.1	165.1	151.2	123.3
21970.4	67.5°	13622.6	3027.2	206.9	151.2	127.3	121.3	133.3	139.2	129.3	103.4
20991.8	70°	12166.7	1762.2	171.1	117.4	95.5	89.5	107.4	119.3	107.4	83.5
17942.7	72.5°	10106.1	950.7	139.2	87.5	65.6	59.7	85.5	97.5	85.5	61.7
11512.3	75°	6557.7	509.2	107.4	57.7	33.8	37.8	63.6	71.6	59.7	39.8
3379.3	77.5°	2201.8	224.8	67.6	27.8	15.9	15.9	37.8	43.8	27.8	13.9
614.6	80°	491.3	93.5	27.8	11.9	6.0	6.0	8.0	8.0	4.0	0.0
189.0	82.5°	161.1	37.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
47.7	85°	61.7	13.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	23.9	2.0	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>
4912.8
4847.2
4262.4
3391.2
2277.4
1370.4
1016.4
952.7
909.0
849.3
771.7
696.1
618.6
527.1
441.6
375.9
342.1
322.2
308.3
296.4
284.4
268.5
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