

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: P954274

Luminaire Tested: **GALN-SB7C-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954274  
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-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

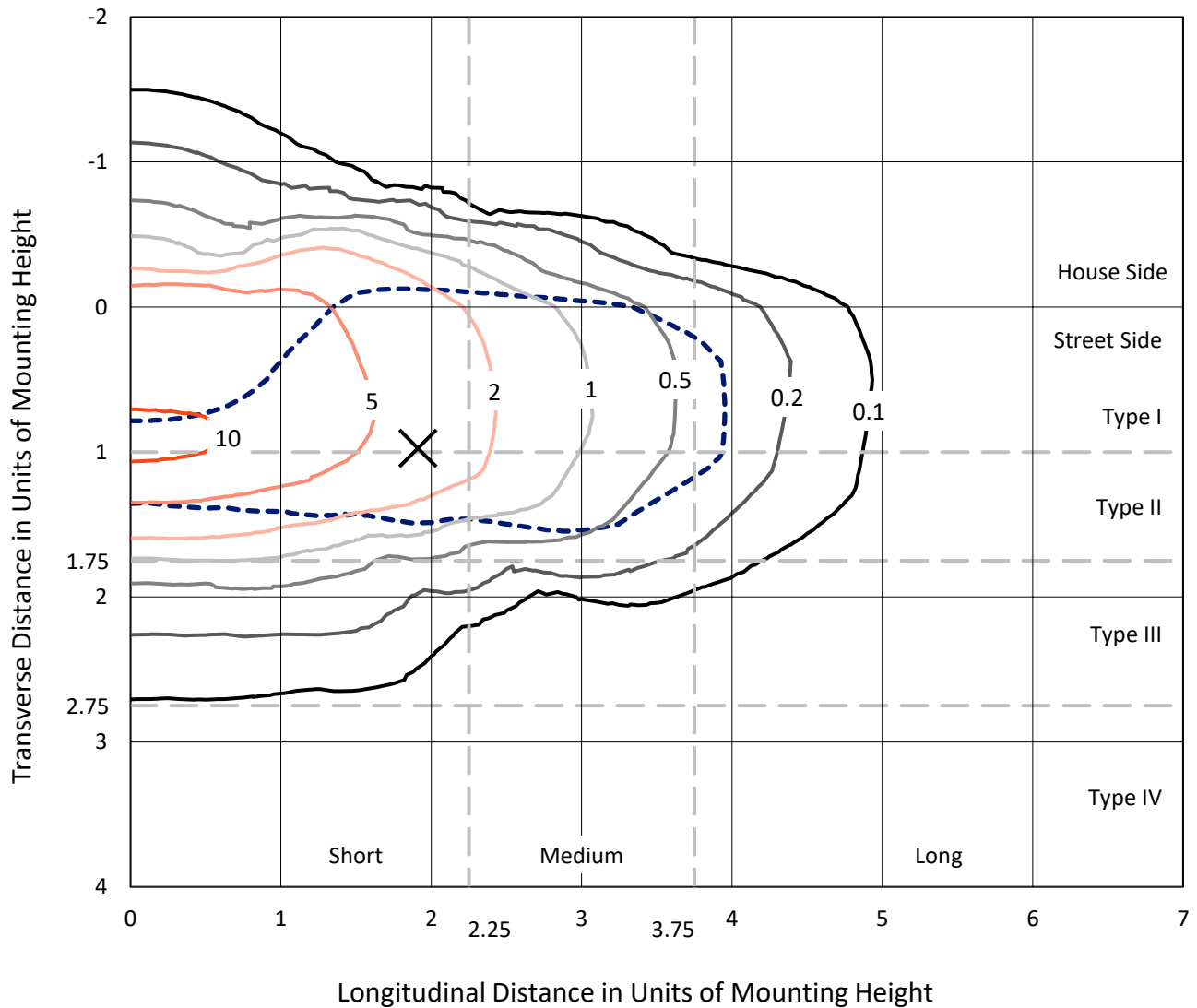
Lumens per Lamp: N/A  
Luminaire Lumens: 35394 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

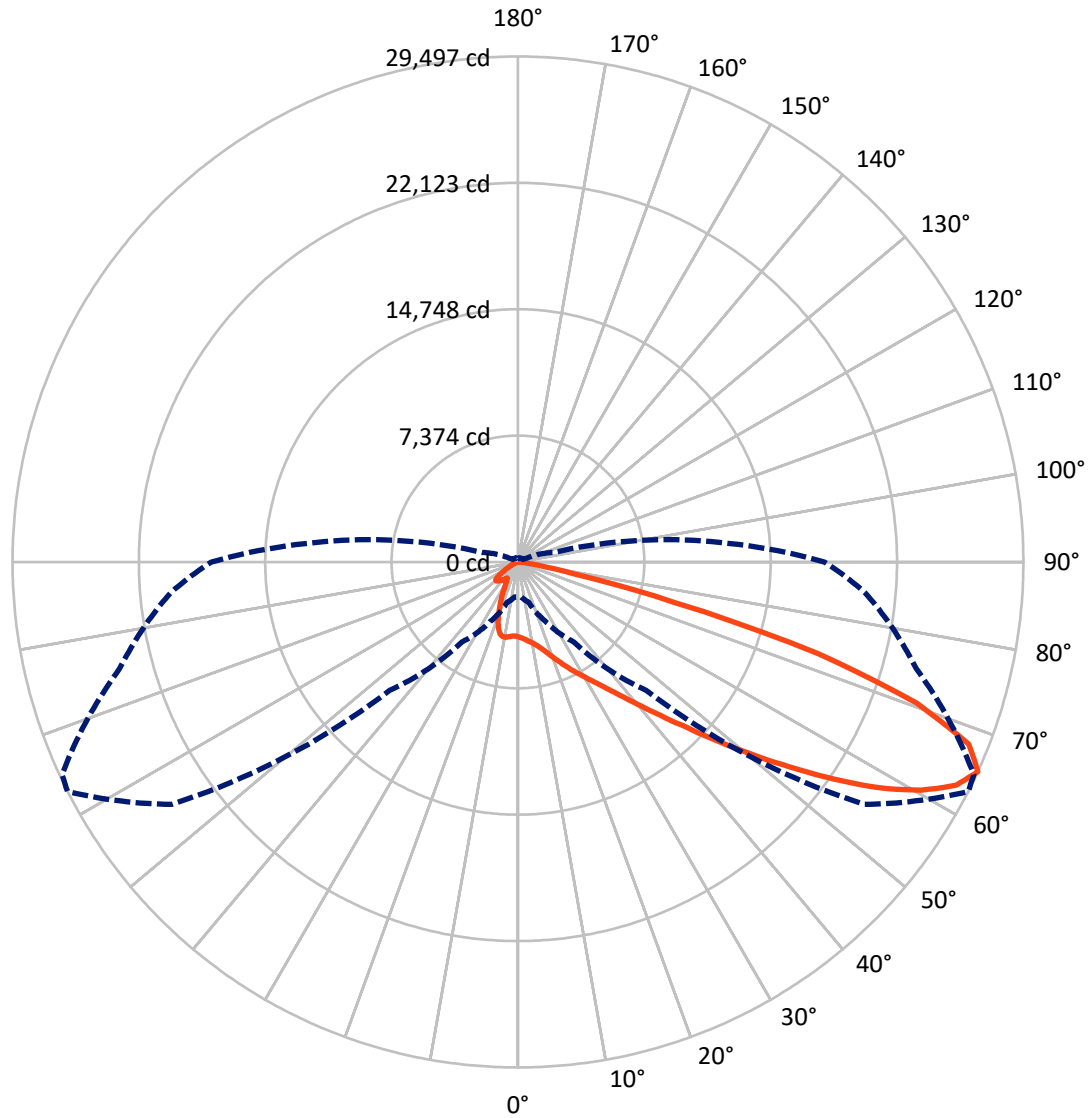
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	5202.6	0.0	5202.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	30191.4	0.0	30191.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	35394.0	0.0	35394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.6	1.2
10°-20°	1142.0	3.2
20°-30°	1988.5	5.6
30°-40°	3584.0	10.1
40°-50°	7108.2	20.1
50°-60°	9682.6	27.4
60°-70°	7728.5	21.8
70°-80°	3497.3	9.9
80°-90°	251.4	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°	35394.0	100.0
0°-180°	35394.0	100.0

**Coefficient of Utilization**



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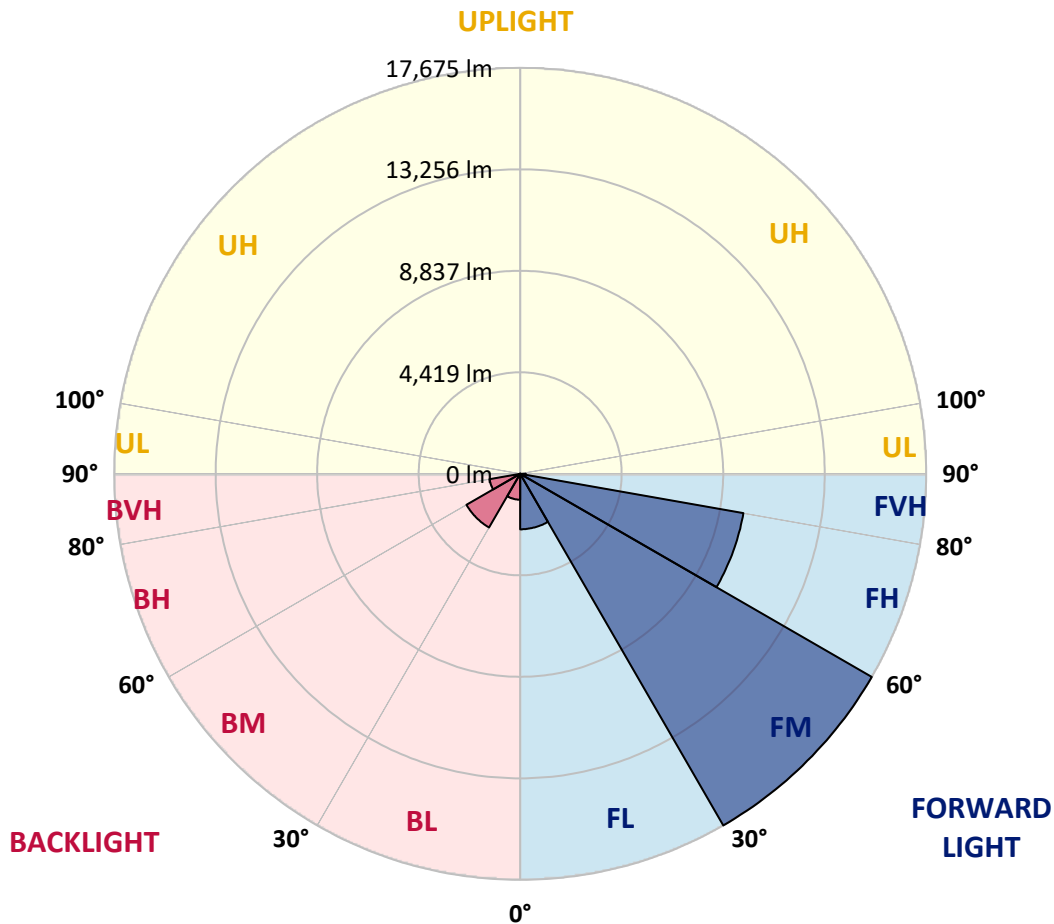
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2416.1	6.8			
FM (30°-60°)	17674.9	49.9			
FH (60°-80°)	9867.7	27.9			G4/12000
FVH (80°-90°)	232.7	0.7			G3/500
BL (0°-30°)	1125.9	3.2	B3/2500		
BM (30°-60°)	2699.9	7.6	B3/5000		
BH (60°-80°)	1358.2	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.7	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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3
2.5°	4470.6	4458.4	4475.4	4468.1	4463.3	4453.5	4448.6	4443.8	4434.0	4426.7
5°	4482.7	4475.4	4492.5	4507.1	4521.7	4536.3	4543.6	4553.3	4543.6	4524.1
7.5°	4380.5	4375.6	4412.1	4455.9	4521.7	4577.7	4638.6	4672.7	4675.1	4667.8
10°	4373.2	4361.0	4397.5	4451.1	4536.3	4636.1	4743.3	4816.3	4826.1	4857.7
12.5°	4487.6	4475.4	4526.6	4585.0	4672.7	4777.4	4908.8	5011.1	5025.7	5069.6
15°	4680.0	4662.9	4721.4	4796.8	4908.8	5028.2	5166.9	5259.5	5271.7	5325.2
17.5°	4904.0	4886.9	4955.1	5035.5	5157.2	5320.4	5481.1	5583.3	5597.9	5632.0
20°	5191.3	5169.4	5223.0	5296.0	5425.1	5619.8	5812.2	5958.3	5955.9	5955.9
22.5°	5524.9	5490.8	5537.1	5595.5	5717.2	5953.4	6209.1	6382.0	6382.0	6313.8
25°	5882.8	5848.7	5899.9	5953.4	6060.6	6328.4	6627.9	6842.2	6851.9	6735.1
27.5°	6330.9	6287.0	6326.0	6389.3	6452.6	6725.3	7080.8	7329.2	7334.0	7153.9
30°	7192.8	7068.6	6946.9	6878.7	6907.9	7178.2	7558.1	7833.2	7857.6	7609.2
32.5°	8770.7	8746.3	8317.8	7757.7	7465.5	7665.2	8091.3	8422.5	8437.1	8118.1
35°	11222.7	11193.4	10504.3	9437.8	8485.8	8317.8	8739.0	9131.0	9121.3	8760.9
37.5°	14149.5	14122.7	13214.4	11787.6	10246.2	9303.9	9574.2	9985.7	10046.6	9574.2
40°	16650.1	16550.3	15975.7	14599.9	12583.8	10940.2	10762.4	11035.2	11098.5	10538.4
42.5°	18544.5	18459.3	18167.1	17307.6	15413.2	13360.5	12162.5	12267.2	12337.9	11665.8
45°	19525.8	19506.3	19623.2	19542.9	18296.2	16331.2	14164.1	13728.2	13755.0	12914.9
47.5°	19664.6	19654.9	20188.1	20942.9	20774.9	19681.6	16732.9	15549.5	15454.6	14324.8
50°	18846.5	18827.0	19849.7	21264.4	22430.7	22496.4	19650.0	17602.2	17392.8	15783.3
52.5°	16233.8	16228.9	17909.0	20263.6	23012.6	24960.6	22533.0	19857.0	19506.3	17327.1
55°	12491.3	12581.4	14507.4	17290.5	21951.0	26146.4	25121.3	22360.1	21822.0	18880.6
57.5°	8848.6	8980.1	10884.2	13363.0	18659.0	25445.2	26872.0	24868.1	24288.6	20429.2
60°	4753.0	4869.9	6776.4	9734.9	13881.6	22830.0	27794.9	27044.9	26497.1	21899.9
62.5°	2831.8	2870.8	3659.7	6284.6	9389.1	17441.5	27402.9	28703.1	28252.6	23134.4
65°	2033.2	2040.5	2437.4	3837.5	5700.2	10596.9	24653.8	29496.9	29358.1	24064.5
67.5°	1711.8	1706.9	1872.5	2549.4	3883.7	5308.2	18895.2	28374.4	28963.7	24653.8
70°	1468.3	1475.6	1670.4	1867.6	2919.5	3004.7	9394.0	24704.9	25961.4	24809.6
72.5°	1093.3	1117.6	1297.8	1702.0	2203.6	2067.3	3243.3	18318.1	20589.9	23375.5
75°	771.9	784.1	913.1	1431.7	1643.6	1504.8	1655.8	9469.5	12381.7	17921.2
77.5°	594.1	616.0	691.5	1000.8	1619.2	1056.8	1012.9	3277.4	5035.5	10825.8
80°	321.4	360.4	499.2	723.2	1137.1	747.5	501.6	1305.1	1706.9	5062.2
82.5°	165.6	185.1	348.2	521.1	647.7	652.6	248.4	543.0	703.7	1563.2
85°	65.7	80.4	233.8	287.3	333.6	321.4	112.0	219.1	253.2	433.4
87.5°	14.6	24.3	85.2	65.7	63.3	68.2	26.8	51.1	48.7	51.1
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°
4368.3	0°	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3	4368.3
4397.5	2.5°	4395.1	4385.3	4358.5	4329.3	4295.2	4275.8	4263.6	4261.2	4244.1	4231.9
4494.9	5°	4468.1	4458.4	4407.2	4346.4	4280.6	4229.5	4180.8	4137.0	4073.7	4061.5
4636.1	7.5°	4614.2	4587.4	4504.6	4421.9	4297.7	4149.1	3969.0	3762.0	3576.9	3520.9
4823.6	10°	4794.4	4757.9	4653.2	4507.1	4231.9	3827.7	3391.9	2987.7	2666.3	2576.2
5045.2	12.5°	4998.9	4967.3	4828.5	4558.2	3956.8	3223.9	2556.7	2055.1	1743.4	1665.5
5281.4	15°	5242.4	5196.2	5003.8	4480.3	3464.9	2449.6	1755.6	1458.5	1346.5	1331.9
5551.7	17.5°	5500.5	5425.1	5159.6	4200.3	2802.6	1741.0	1356.3	1271.0	1222.3	1207.7
5824.4	20°	5736.7	5639.3	5252.2	3776.6	2094.1	1356.3	1215.0	1159.0	1115.2	1098.2
6097.1	22.5°	5972.9	5834.1	5252.2	3199.5	1570.5	1202.9	1115.2	1064.1	1012.9	991.0
6389.3	25°	6218.8	6033.8	5159.6	2556.7	1263.7	1103.0	1020.2	964.2	920.4	893.6
6666.9	27.5°	6457.5	6201.8	4947.8	1948.0	1124.9	1015.4	932.6	879.0	837.6	818.1
6968.8	30°	6683.9	6367.4	4650.7	1478.0	1034.9	930.1	852.2	806.0	764.6	745.1
7360.8	32.5°	6990.7	6576.8	4334.2	1212.6	956.9	849.8	779.2	735.4	698.8	684.2
7869.7	35°	7416.8	6886.0	4061.5	1190.7	891.2	784.1	713.4	672.0	635.5	623.3
8527.2	37.5°	8020.7	7385.2	3917.8	1336.8	837.6	725.6	659.9	616.0	582.0	572.2
9362.4	40°	8765.8	8062.1	3995.7	1482.9	801.1	674.5	611.2	567.3	538.1	525.9
10321.7	42.5°	9649.7	8897.3	4426.7	1594.9	776.7	630.7	564.9	516.2	496.7	491.9
11410.1	45°	10665.1	9815.3	5086.6	1714.2	737.8	589.3	518.6	482.1	467.5	465.1
12593.5	47.5°	11819.2	10823.3	5851.2	1862.7	698.8	550.3	482.1	457.8	445.6	440.7
13828.0	50°	12963.6	11838.7	6637.7	1945.5	667.2	513.8	452.9	433.4	423.7	421.2
15133.2	52.5°	14161.6	12883.3	7273.2	1867.6	640.4	484.6	428.6	413.9	404.2	401.8
16336.0	55°	15303.6	13728.2	7382.7	1585.1	586.8	455.3	401.8	394.5	382.3	382.3
17555.9	57.5°	16287.3	14151.9	6608.4	1163.9	533.3	411.5	375.0	367.7	357.9	355.5
18656.5	60°	17190.7	14030.1	5101.2	784.1	474.8	367.7	340.9	336.0	326.3	314.1
19613.5	62.5°	17699.6	13494.5	3489.3	511.3	416.4	321.4	301.9	299.5	277.6	253.2
20322.0	65°	17892.0	12393.9	2176.8	372.5	348.2	275.1	260.5	255.7	224.0	197.2
20723.8	67.5°	17724.0	10582.3	1098.2	294.6	275.1	228.9	214.3	214.3	192.4	168.0
20699.5	70°	17051.9	7933.0	462.6	236.2	211.8	175.3	175.3	185.1	163.1	136.4
19625.6	72.5°	15593.4	5337.4	245.9	180.2	158.3	124.2	143.7	151.0	129.1	102.3
16063.3	75°	12396.3	3255.5	170.4	133.9	99.8	87.7	109.6	114.4	87.7	68.2
11013.2	77.5°	8478.5	1870.0	114.4	85.2	63.3	51.1	75.5	70.6	46.3	31.7
4246.5	80°	3723.0	779.2	65.7	39.0	24.3	19.5	26.8	19.5	14.6	9.7
582.0	82.5°	435.9	182.6	24.3	14.6	9.7	4.9	2.4	0.0	0.0	0.0
177.8	85°	90.1	21.9	12.2	4.9	2.4	0.0	0.0	0.0	0.0	0.0
31.7	87.5°	17.0	4.9	2.4	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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180°
4368.3
4244.1
4056.6
3494.1
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