

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: P950349

Luminaire Tested: **GALN-SB4D-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950349  
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-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

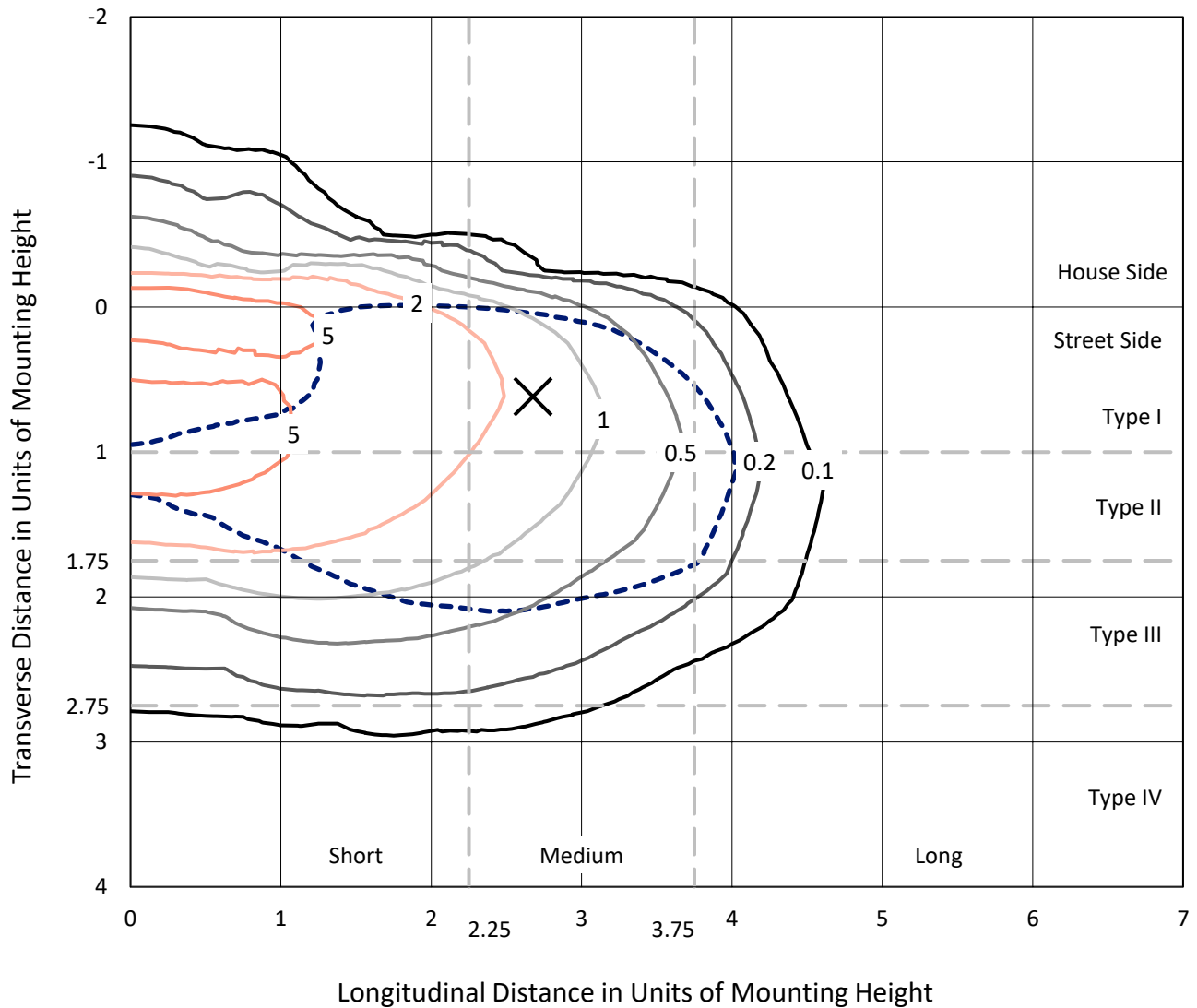
Lumens per Lamp: N/A  
Luminaire Lumens: 29525 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

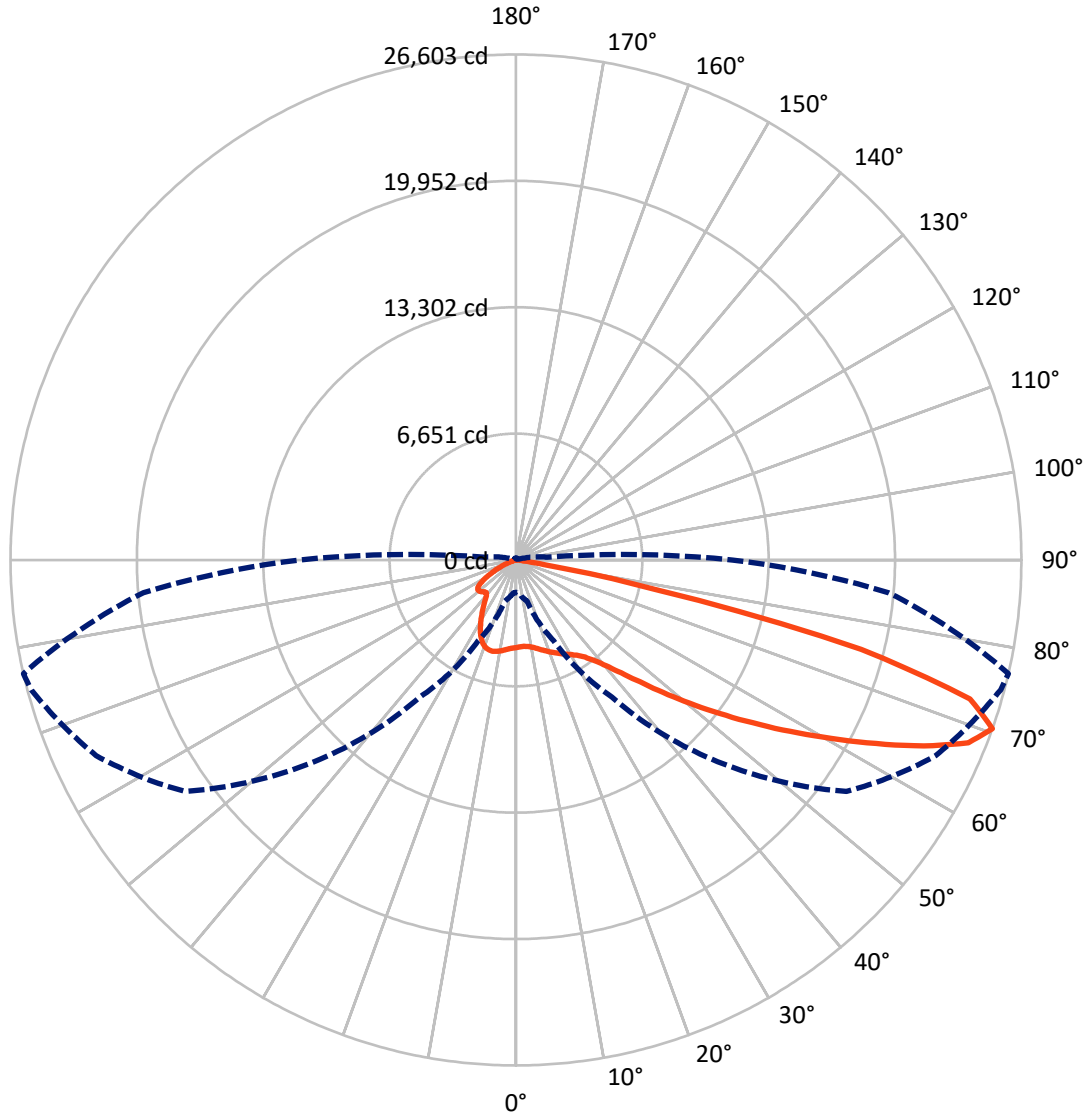
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	3112.4	0.0	3112.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	26412.6	0.0	26412.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	29525.0	0.0	29525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.9	1.3
10°-20°	942.2	3.2
20°-30°	1457.3	4.9
30°-40°	2644.4	9.0
40°-50°	4991.7	16.9
50°-60°	7212.6	24.4
60°-70°	7677.6	26.0
70°-80°	4068.6	13.8
80°-90°	133.6	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°	29525.0	100.0
0°-180°	29525.0	100.0

**Coefficient of Utilization**



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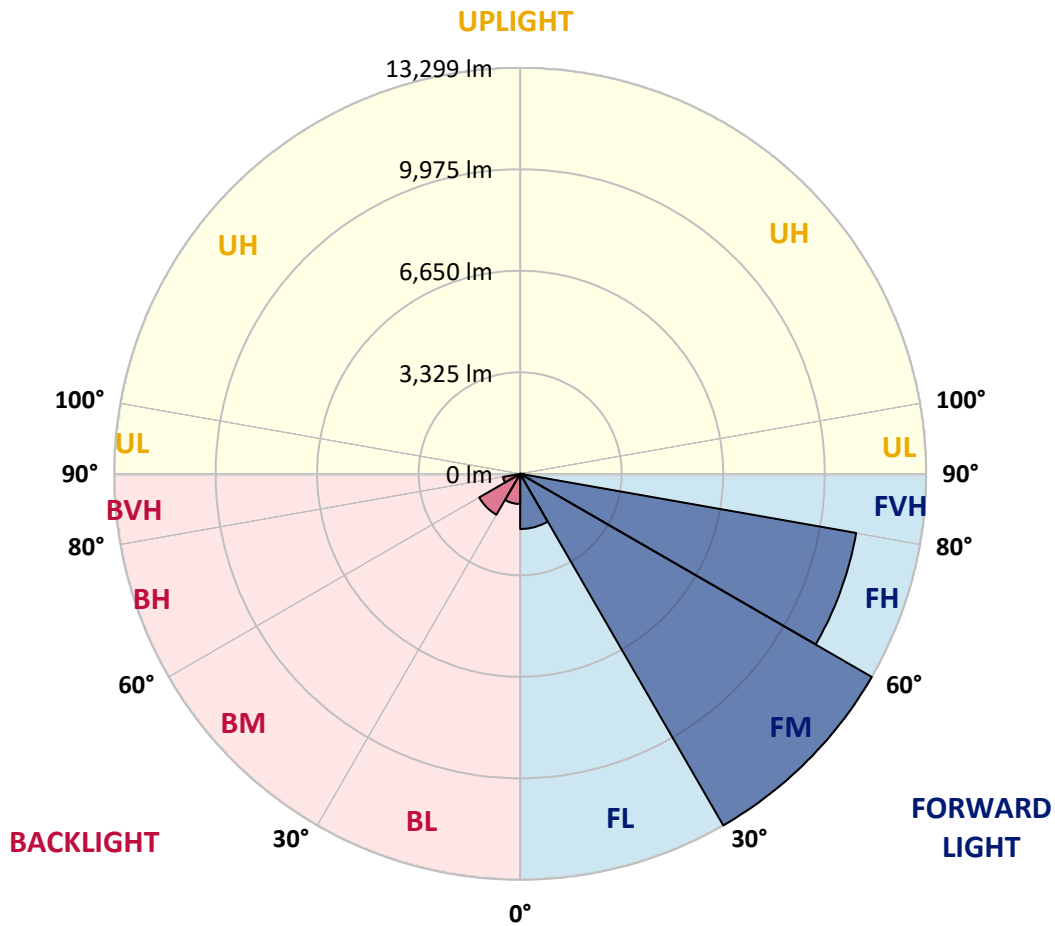
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.6	6.1			
FM (30°-60°)	13299.4	45.0			
FH (60°-80°)	11175.6	37.9			G4/12000
FVH (80°-90°)	130.0	0.4			G2/225
BL (0°-30°)	988.8	3.3	B2/1000		
BM (30°-60°)	1549.3	5.2	B2/2500		
BH (60°-80°)	570.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4
2.5°	4323.8	4363.0	4357.4	4383.5	4392.8	4430.1	4467.4	4517.7	4573.7	4571.8
5°	4079.6	4118.7	4128.0	4163.5	4208.2	4266.0	4342.5	4443.2	4547.6	4564.3
7.5°	3790.6	3831.6	3855.8	3926.7	4008.7	4128.0	4253.0	4400.3	4573.7	4597.9
10°	3501.6	3538.9	3570.6	3671.2	3801.8	3978.9	4182.1	4394.7	4627.7	4663.2
12.5°	3322.6	3358.0	3393.4	3481.1	3643.3	3859.6	4135.5	4420.8	4717.2	4767.6
15°	3259.2	3290.9	3318.8	3397.2	3548.2	3794.3	4126.2	4474.9	4831.0	4898.1
17.5°	3268.5	3285.3	3303.9	3363.6	3510.9	3764.5	4143.0	4568.1	4965.2	5024.9
20°	3322.6	3331.9	3333.8	3374.8	3505.3	3760.7	4176.5	4657.6	5092.0	5172.2
22.5°	3391.6	3395.3	3391.6	3419.5	3540.7	3788.7	4221.3	4765.7	5233.7	5308.3
25°	3714.1	3643.3	3553.8	3499.7	3600.4	3842.8	4288.4	4911.1	5388.5	5461.2
27.5°	4715.4	4512.1	4191.4	3831.6	3723.4	3921.1	4381.6	5058.4	5545.1	5610.3
30°	6341.2	6074.6	5530.2	4719.1	4118.7	4085.2	4502.8	5205.7	5711.0	5781.9
32.5°	7970.8	7905.6	7277.2	6154.8	5008.1	4450.6	4704.2	5405.2	5931.0	5987.0
35°	9619.1	9486.7	8972.1	7862.7	6378.5	5194.6	5039.8	5666.3	6220.0	6283.4
37.5°	10881.3	10801.2	10482.3	9568.7	8004.4	6343.1	5614.1	6070.9	6639.6	6710.4
40°	11996.3	11959.0	11850.9	11248.7	9822.3	7845.9	6507.2	6697.4	7221.3	7305.2
42.5°	12872.7	12960.3	13021.8	12854.0	11696.1	9561.3	7707.9	7577.4	8032.4	8118.1
45°	13769.5	13799.3	14047.3	14289.7	13556.9	11354.9	9061.6	8608.5	9041.1	9147.3
47.5°	14345.6	14465.0	14901.3	15328.2	15121.3	13133.7	10515.9	9826.0	10210.1	10409.6
50°	14388.5	14614.1	15214.5	15958.4	16260.5	14826.7	12097.0	11213.2	11621.6	11841.6
52.5°	13674.4	14024.9	14955.3	16044.2	16875.8	16260.5	13732.2	12600.4	13124.4	13411.5
55°	10484.2	10942.9	13980.2	15578.1	16900.0	17347.5	15324.5	14045.4	14798.7	15123.1
57.5°	9134.3	9365.5	10991.4	14768.9	16450.7	17785.7	16763.9	15421.5	16620.3	17023.1
60°	7599.8	7903.7	9218.2	13445.1	15841.0	17828.5	18035.5	17196.5	18594.9	19047.9
62.5°	5164.7	5494.7	6801.8	11170.3	15007.5	17808.0	19077.8	19023.7	20789.4	21276.0
65°	3199.5	3406.5	4267.9	9121.2	13842.2	17830.4	20168.5	21242.5	23105.1	23599.2
67.5°	2528.3	2623.4	3072.7	7003.1	11834.1	17327.0	21257.4	23328.9	25284.8	25676.3
70°	1698.6	1756.4	2235.6	4694.9	8804.3	15003.8	21236.9	24376.7	26407.2	26603.0
72.5°	895.0	939.7	1307.0	2174.0	5317.6	10665.1	17901.3	23123.8	25290.4	24995.8
75°	447.5	522.1	880.1	1103.8	2271.0	5947.8	11116.3	18231.3	19905.6	18764.5
77.5°	339.3	410.2	727.2	727.2	790.6	2002.5	4707.9	9943.5	9171.6	7637.1
80°	216.3	279.7	635.8	550.0	330.0	509.0	1226.9	2785.6	1948.4	1482.3
82.5°	126.8	182.7	529.5	363.6	184.6	188.3	346.8	592.9	505.3	393.4
85°	50.3	119.3	363.6	143.6	72.7	46.6	104.4	126.8	104.4	78.3
87.5°	0.0	28.0	63.4	0.0	5.6	3.7	7.5	9.3	9.3	7.5
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°
4605.4	0°	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4	4605.4
4609.1	2.5°	4625.9	4629.6	4640.8	4642.7	4616.6	4583.0	4569.9	4564.3	4542.0	4540.1
4638.9	5°	4681.8	4698.6	4681.8	4633.3	4517.7	4355.5	4232.5	4131.8	4040.4	4012.4
4741.5	7.5°	4793.7	4810.5	4760.1	4569.9	4279.1	3956.5	3665.6	3460.6	3276.0	3207.0
4866.4	10°	4954.0	4976.4	4817.9	4433.8	3919.2	3400.9	2908.7	2561.9	2291.5	2181.5
5036.1	12.5°	5155.4	5164.7	4849.6	4226.9	3451.2	2711.0	2013.7	1642.6	1402.1	1312.6
5241.2	15°	5377.3	5364.2	4853.3	3945.3	2813.6	1916.7	1314.5	1079.6	982.6	952.8
5446.3	17.5°	5610.3	5556.3	4778.8	3538.9	2114.4	1310.8	975.1	919.2	902.4	895.0
5649.5	20°	5839.7	5718.5	4642.7	3007.5	1517.7	978.9	885.6	868.9	859.5	855.8
5854.6	22.5°	6048.5	5841.5	4409.6	2390.3	1101.9	865.1	837.2	822.3	805.5	798.0
6054.1	25°	6251.7	5912.4	4081.4	1814.2	881.9	809.2	786.8	758.9	736.5	727.2
6268.5	27.5°	6449.4	5957.1	3671.2	1342.5	786.8	757.0	716.0	676.8	660.0	656.3
6497.9	30°	6660.1	5972.1	3205.1	1001.2	729.0	691.7	632.1	587.3	578.0	579.9
6807.4	32.5°	6917.4	5994.4	2735.3	820.4	680.6	613.4	542.6	496.0	488.5	496.0
7258.6	35°	7225.0	6039.2	2282.2	755.1	637.7	533.3	456.8	417.7	410.2	415.8
7836.6	37.5°	7642.7	6111.9	1858.9	742.1	602.2	466.1	384.1	352.4	352.4	354.3
8545.1	40°	8198.3	6305.8	1480.4	732.8	583.6	415.8	324.4	311.4	317.0	320.7
9447.5	42.5°	8875.1	6717.9	1225.0	721.6	563.1	393.4	294.6	289.0	298.3	302.1
10528.9	45°	9634.0	7239.9	1135.5	702.9	544.4	408.3	281.5	274.1	285.3	287.1
11740.9	47.5°	10418.9	7750.8	1124.3	682.4	525.8	430.7	277.8	261.0	274.1	275.9
13034.9	50°	11213.2	8084.6	1135.5	650.7	496.0	430.7	279.7	248.0	259.2	264.8
14377.3	52.5°	12013.1	8237.5	1128.0	581.7	443.8	404.6	279.7	236.8	248.0	251.7
15827.9	55°	12788.7	8207.6	1014.3	479.2	376.6	358.0	272.2	227.5	234.9	236.8
17198.3	57.5°	13402.2	7791.8	803.6	372.9	305.8	298.3	248.0	216.3	221.9	220.0
18455.0	60°	13722.9	6878.2	574.3	287.1	240.5	234.9	218.1	201.4	205.1	195.8
19519.7	62.5°	13726.6	5670.0	384.1	227.5	192.0	186.5	186.5	180.9	177.1	158.5
20343.8	65°	13433.9	4329.4	255.4	180.9	154.8	145.4	156.6	154.8	141.7	115.6
20595.5	67.5°	12770.1	2837.8	193.9	141.7	119.3	113.7	124.9	130.5	121.2	97.0
19678.2	70°	11405.3	1652.0	160.3	110.0	89.5	83.9	100.7	111.9	100.7	78.3
16819.8	72.5°	9473.6	891.2	130.5	82.0	61.5	55.9	80.2	91.4	80.2	57.8
10791.8	75°	6147.3	477.3	100.7	54.1	31.7	35.4	59.7	67.1	55.9	37.3
3167.8	77.5°	2064.0	210.7	63.4	26.1	14.9	14.9	35.4	41.0	26.1	13.1
576.1	80°	460.5	87.6	26.1	11.2	5.6	5.6	7.5	7.5	3.7	0.0
177.1	82.5°	151.0	35.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
44.7	85°	57.8	13.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.9	87.5°	22.4	1.9	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>
4605.4
4543.8
3995.7
3179.0
2134.9
1284.7
952.8
893.1
852.1
796.2
723.4
652.6
579.9
494.1
413.9
352.4
320.7
302.1
289.0
277.8
266.6
251.7
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