

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: P951775

Luminaire Tested: **GALN-SB5D-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951775  
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-SB5D-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

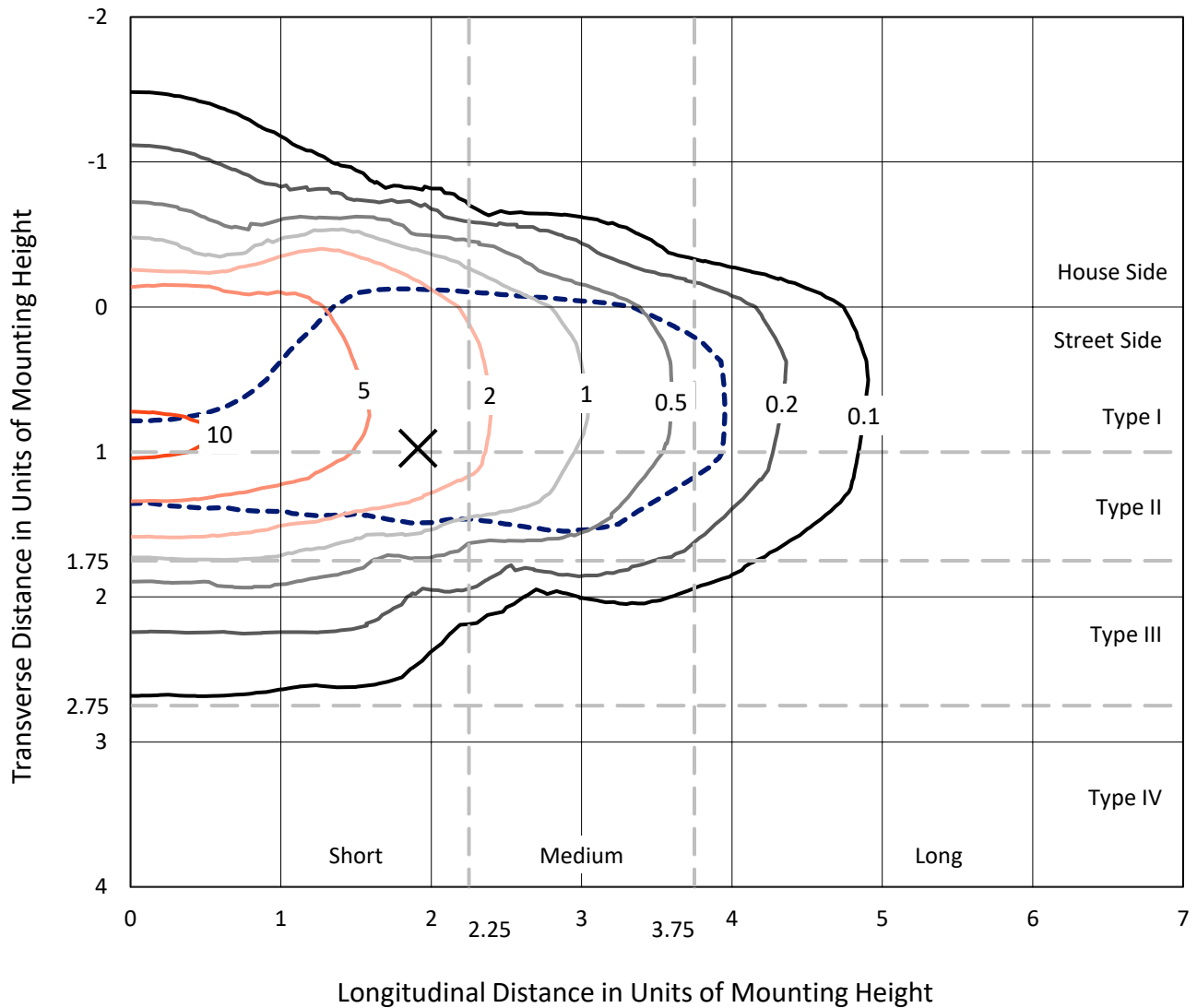
Lumens per Lamp: N/A  
Luminaire Lumens: 34161 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

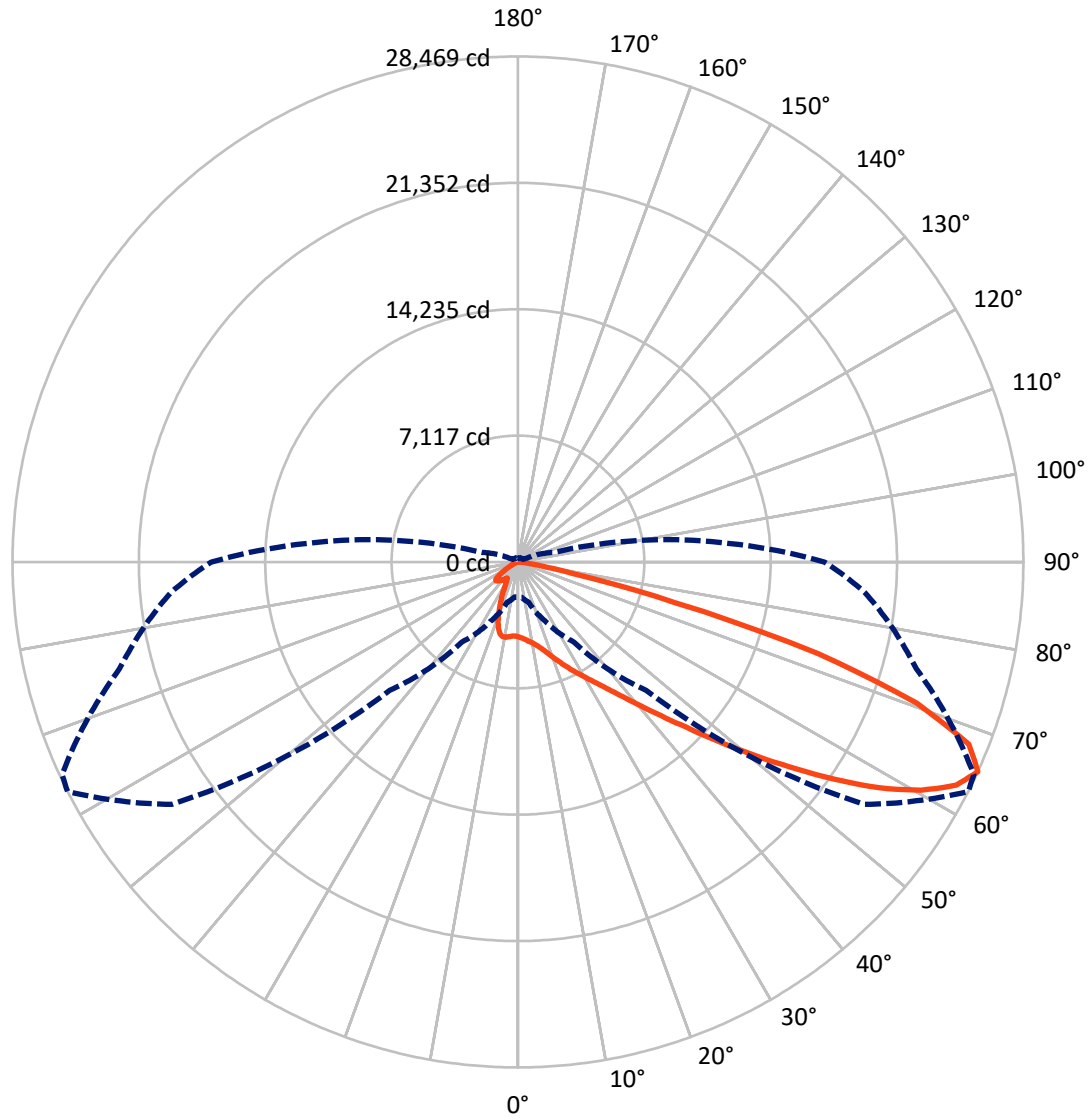
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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
<b>House Side</b>	Lumens	5021.4	0.0	5021.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	29139.6	0.0	29139.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	34161.0	0.0	34161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.2	1.2
10°-20°	1102.2	3.2
20°-30°	1919.2	5.6
30°-40°	3459.1	10.1
40°-50°	6860.6	20.1
50°-60°	9345.2	27.4
60°-70°	7459.3	21.8
70°-80°	3375.5	9.9
80°-90°	242.6	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°	34161.0	100.0
0°-180°	34161.0	100.0

**Coefficient of Utilization**



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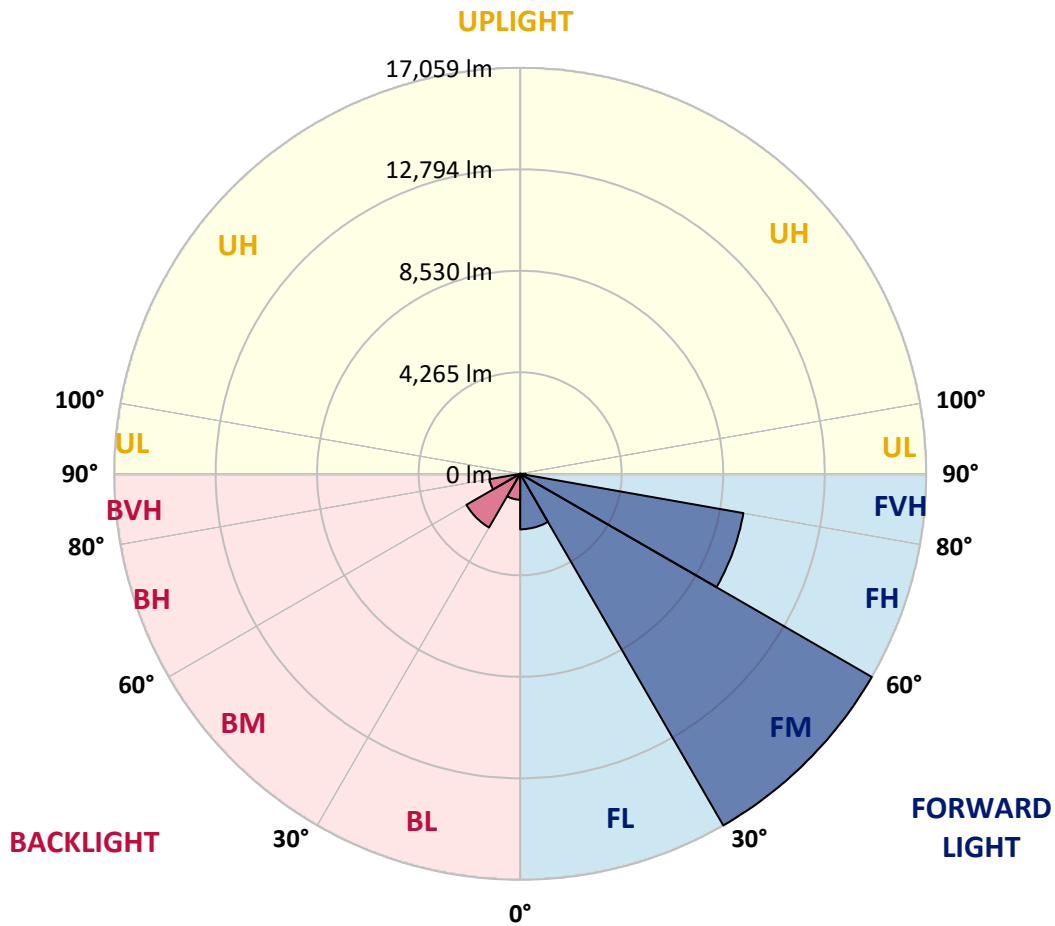
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.9	6.8			
FM (30°-60°)	17059.1	49.9			
FH (60°-80°)	9523.9	27.9			G4/12000
FVH (80°-90°)	224.6	0.7			G2/225
BL (0°-30°)	1086.7	3.2	B3/2500		
BM (30°-60°)	2605.8	7.6	B3/5000		
BH (60°-80°)	1310.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.0	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°	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1
2.5°	4314.8	4303.1	4319.5	4312.5	4307.8	4298.4	4293.7	4289.0	4279.6	4272.5
5°	4326.6	4319.5	4336.0	4350.1	4364.2	4378.3	4385.3	4394.7	4385.3	4366.5
7.5°	4227.9	4223.2	4258.4	4300.7	4364.2	4418.2	4477.0	4509.9	4512.2	4505.2
10°	4220.8	4209.1	4244.3	4296.0	4378.3	4474.6	4578.0	4648.5	4657.9	4688.5
12.5°	4331.3	4319.5	4368.9	4425.3	4509.9	4610.9	4737.8	4836.5	4850.6	4892.9
15°	4516.9	4500.5	4556.9	4629.7	4737.8	4853.0	4987.0	5076.3	5088.0	5139.7
17.5°	4733.1	4716.7	4782.5	4860.0	4977.6	5135.0	5290.1	5388.8	5402.9	5435.8
20°	5010.5	4989.3	5041.0	5111.5	5236.1	5424.1	5609.7	5750.7	5748.4	5748.4
22.5°	5332.4	5299.5	5344.2	5400.6	5518.1	5746.0	5992.8	6159.7	6159.7	6093.9
25°	5677.9	5645.0	5694.3	5746.0	5849.4	6108.0	6397.0	6603.8	6613.2	6500.4
27.5°	6110.3	6068.0	6105.6	6166.7	6227.8	6491.0	6834.1	7073.9	7078.6	6904.6
30°	6942.3	6822.4	6704.9	6639.1	6667.3	6928.1	7294.8	7560.3	7583.8	7344.1
32.5°	8465.1	8441.6	8028.0	7487.5	7205.5	7398.2	7809.4	8129.1	8143.2	7835.3
35°	10831.7	10803.5	10138.4	9109.1	8190.2	8028.0	8434.6	8812.9	8803.5	8455.7
37.5°	13656.5	13630.7	12754.1	11376.9	9889.3	8979.8	9240.7	9637.8	9696.6	9240.7
40°	16070.1	15973.8	15419.1	14091.3	12145.4	10559.1	10387.5	10650.7	10711.8	10171.3
42.5°	17898.5	17816.2	17534.2	16704.6	14876.3	12895.1	11738.8	11839.9	11908.1	11259.4
45°	18845.6	18826.8	18939.6	18862.1	17658.8	15762.2	13670.6	13250.0	13275.8	12465.0
47.5°	18979.6	18970.2	19484.8	20213.4	20051.2	18996.0	16150.0	15007.9	14916.2	13825.7
50°	18189.9	18171.1	19158.2	20523.6	21649.3	21712.7	18965.5	16989.0	16786.9	15233.5
52.5°	15668.2	15663.5	17285.1	19557.7	22211.0	24091.1	21748.0	19165.2	18826.8	16723.4
55°	12056.1	12143.1	14002.0	16688.2	21186.3	25235.6	24246.2	21581.1	21061.8	18222.8
57.5°	8540.3	8667.2	10505.0	12897.5	18009.0	24558.7	25935.9	24001.8	23442.4	19717.5
60°	4587.4	4700.2	6540.4	9395.8	13398.0	22034.7	26826.6	26102.8	25574.0	21137.0
62.5°	2733.2	2770.8	3532.2	6065.7	9062.1	16833.9	26448.2	27703.2	27268.4	22328.5
65°	1962.3	1969.4	2352.5	3703.8	5501.6	10227.7	23795.0	28469.3	28335.4	23226.2
67.5°	1652.1	1647.4	1807.2	2460.6	3748.4	5123.3	18236.9	27385.9	27954.7	23795.0
70°	1417.1	1424.2	1612.2	1802.5	2817.8	2900.0	9066.8	23844.3	25057.0	23945.4
72.5°	1055.2	1078.7	1252.6	1642.7	2126.9	1995.3	3130.4	17679.9	19872.6	22561.1
75°	745.0	756.7	881.3	1381.9	1586.3	1452.4	1598.1	9139.6	11950.4	17296.9
77.5°	573.4	594.6	667.4	965.9	1562.8	1020.0	977.6	3163.3	4860.0	10448.6
80°	310.2	347.8	481.8	698.0	1097.5	721.5	484.1	1259.7	1647.4	4885.9
82.5°	159.8	178.6	336.1	502.9	625.1	629.8	239.7	524.1	679.2	1508.8
85°	63.5	77.6	225.6	277.3	322.0	310.2	108.1	211.5	244.4	418.3
87.5°	14.1	23.5	82.3	63.5	61.1	65.8	25.9	49.4	47.0	49.4
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°
4216.1	0°	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1	4216.1
4244.3	2.5°	4242.0	4232.6	4206.7	4178.5	4145.6	4126.8	4115.1	4112.7	4096.3	4084.5
4338.3	5°	4312.5	4303.1	4253.7	4195.0	4131.5	4082.2	4035.2	3992.9	3931.7	3920.0
4474.6	7.5°	4453.5	4427.6	4347.7	4267.8	4148.0	4004.6	3830.7	3630.9	3452.3	3398.3
4655.6	10°	4627.4	4592.1	4491.1	4350.1	4084.5	3694.4	3273.7	2883.6	2573.4	2486.4
4869.4	12.5°	4824.8	4794.2	4660.3	4399.4	3818.9	3111.6	2467.6	1983.5	1682.7	1607.5
5097.4	15°	5059.8	5015.2	4829.5	4324.2	3344.2	2364.2	1694.4	1407.7	1299.6	1285.5
5358.3	17.5°	5308.9	5236.1	4979.9	4054.0	2705.0	1680.3	1309.0	1226.8	1179.8	1165.7
5621.5	20°	5536.9	5442.9	5069.2	3645.0	2021.1	1309.0	1172.7	1118.7	1076.4	1059.9
5884.7	22.5°	5764.8	5630.9	5069.2	3088.1	1515.8	1161.0	1076.4	1027.0	977.6	956.5
6166.7	25°	6002.2	5823.6	4979.9	2467.6	1219.7	1064.6	984.7	930.6	888.3	862.5
6434.6	27.5°	6232.5	5985.8	4775.4	1880.1	1085.8	980.0	900.1	848.4	808.4	789.6
6726.0	30°	6451.1	6145.6	4488.7	1426.5	998.8	897.7	822.5	777.9	737.9	719.1
7104.4	32.5°	6747.2	6347.7	4183.2	1170.4	923.6	820.2	752.0	709.7	674.5	660.4
7595.6	35°	7158.5	6646.1	3920.0	1149.2	860.1	756.7	688.6	648.6	613.4	601.6
8230.1	37.5°	7741.3	7127.9	3781.3	1290.2	808.4	700.3	636.9	594.6	561.7	552.3
9036.2	40°	8460.4	7781.2	3856.5	1431.2	773.2	651.0	589.9	547.6	519.4	507.6
9962.2	42.5°	9313.5	8587.3	4272.5	1539.3	749.7	608.7	545.2	498.2	479.4	474.7
11012.7	45°	10293.5	9473.3	4909.4	1654.5	712.1	568.7	500.6	465.3	451.2	448.9
12154.8	47.5°	11407.5	10446.3	5647.3	1797.8	674.5	531.1	465.3	441.8	430.1	425.4
13346.3	50°	12512.0	11426.3	6406.4	1877.7	643.9	495.9	437.1	418.3	408.9	406.6
14606.0	52.5°	13668.3	12434.5	7019.8	1802.5	618.1	467.7	413.6	399.5	390.1	387.8
15766.9	55°	14770.5	13250.0	7125.6	1529.9	566.4	439.5	387.8	380.7	369.0	369.0
16944.4	57.5°	15719.9	13658.9	6378.2	1123.4	514.7	397.2	361.9	354.9	345.5	343.1
18006.6	60°	16591.8	13541.4	4923.5	756.7	458.3	354.9	329.0	324.3	314.9	303.2
18930.2	62.5°	17083.0	13024.4	3367.7	493.5	401.9	310.2	291.4	289.1	267.9	244.4
19614.1	65°	17268.7	11962.1	2101.0	359.6	336.1	265.6	251.5	246.8	216.2	190.4
20001.9	67.5°	17106.5	10213.6	1059.9	284.4	265.6	220.9	206.8	206.8	185.7	162.2
19978.4	70°	16457.9	7656.7	446.5	228.0	204.5	169.2	169.2	178.6	157.5	131.6
18942.0	72.5°	15050.2	5151.5	237.4	173.9	152.8	119.9	138.7	145.7	124.6	98.7
15503.7	75°	11964.5	3142.1	164.5	129.3	96.4	84.6	105.8	110.5	84.6	65.8
10629.6	77.5°	8183.1	1804.9	110.5	82.3	61.1	49.4	72.9	68.2	44.7	30.6
4098.6	80°	3593.3	752.0	63.5	37.6	23.5	18.8	25.9	18.8	14.1	9.4
561.7	82.5°	420.7	176.3	23.5	14.1	9.4	4.7	2.4	0.0	0.0	0.0
171.6	85°	87.0	21.2	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0
30.6	87.5°	16.5	4.7	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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<u>180°</u>
4216.1
4096.3
3915.3
3372.4
2453.5
1586.3
1271.4
1158.6
1050.5
944.7
853.1
789.6
721.5
660.4
601.6
549.9
505.3
474.7
446.5
425.4
406.6
387.8
366.6
340.8
300.8
239.7
<i>188.0</i>
159.8
129.3
98.7
63.5
32.9
9.4
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