

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: P957235

Luminaire Tested: **GALN-SB9C-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957235  
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-SB9C-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

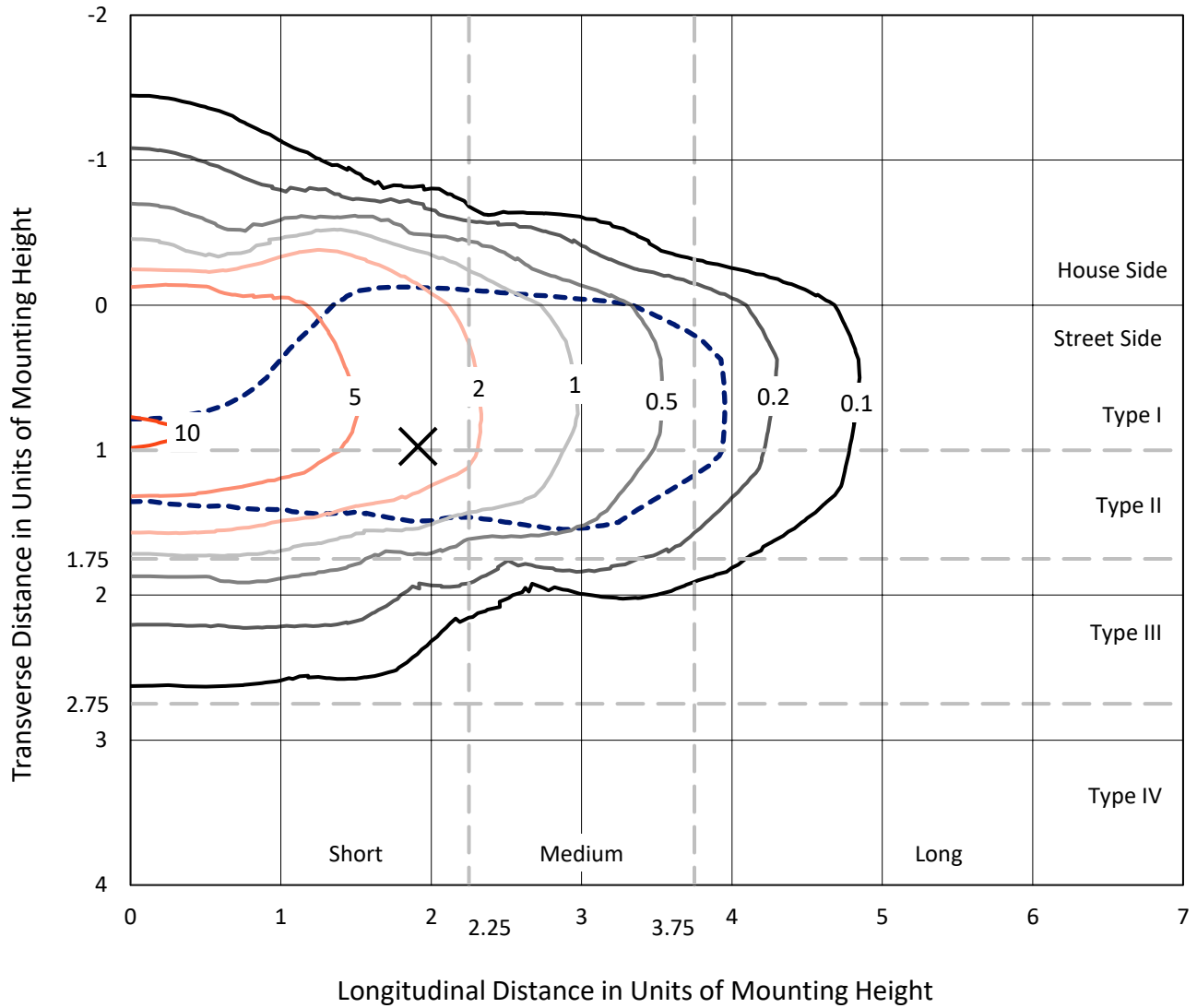
Lumens per Lamp: N/A  
Luminaire Lumens: 31732 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

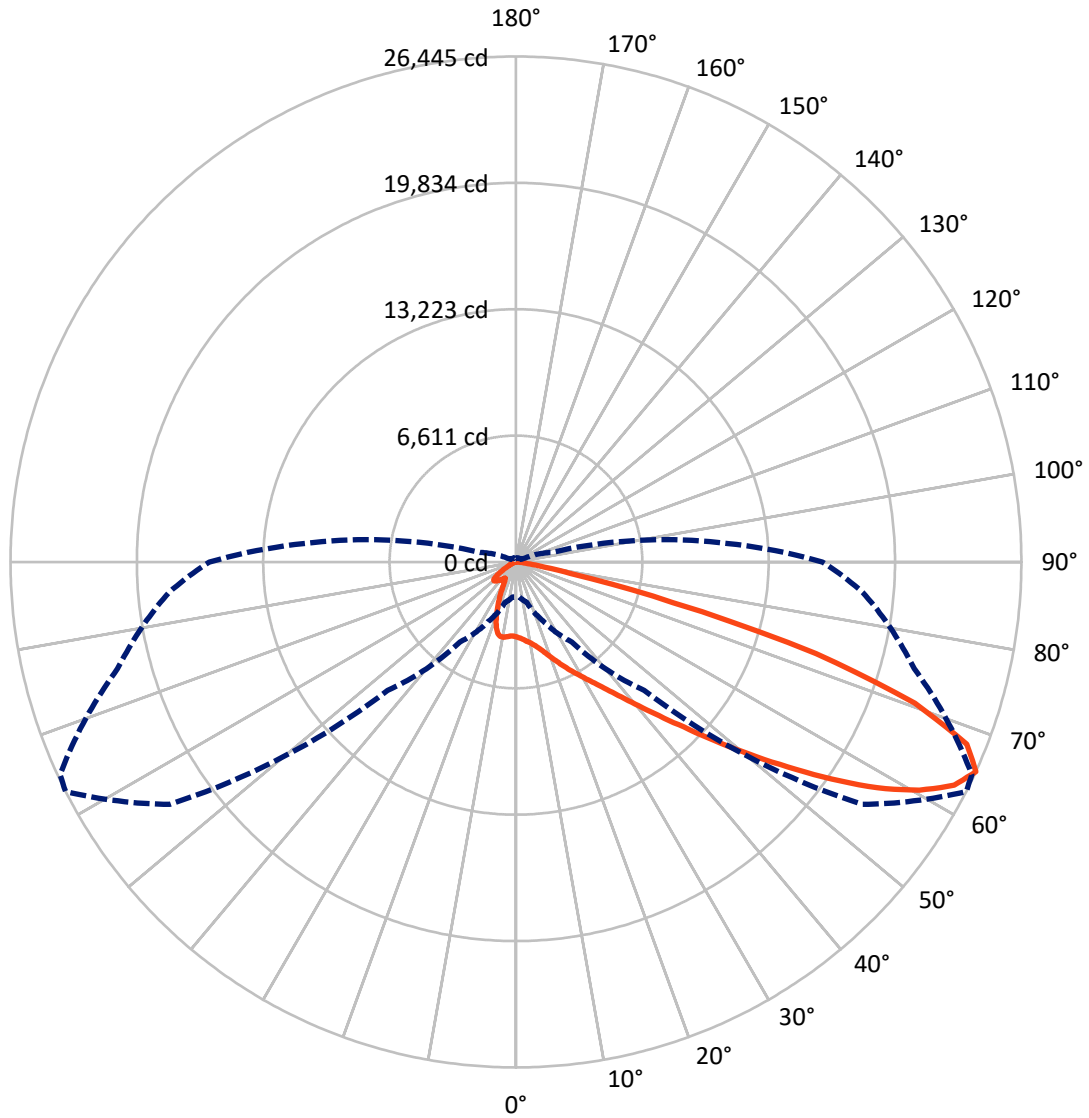
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	4664.4	0.0	4664.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27067.6	0.0	27067.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	31732.0	0.0	31732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.0	1.2
10°-20°	1023.8	3.2
20°-30°	1782.7	5.6
30°-40°	3213.2	10.1
40°-50°	6372.8	20.1
50°-60°	8680.7	27.4
60°-70°	6928.9	21.8
70°-80°	3135.5	9.9
80°-90°	225.4	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°	31732.0	100.0
0°-180°	31732.0	100.0

**Coefficient of Utilization**



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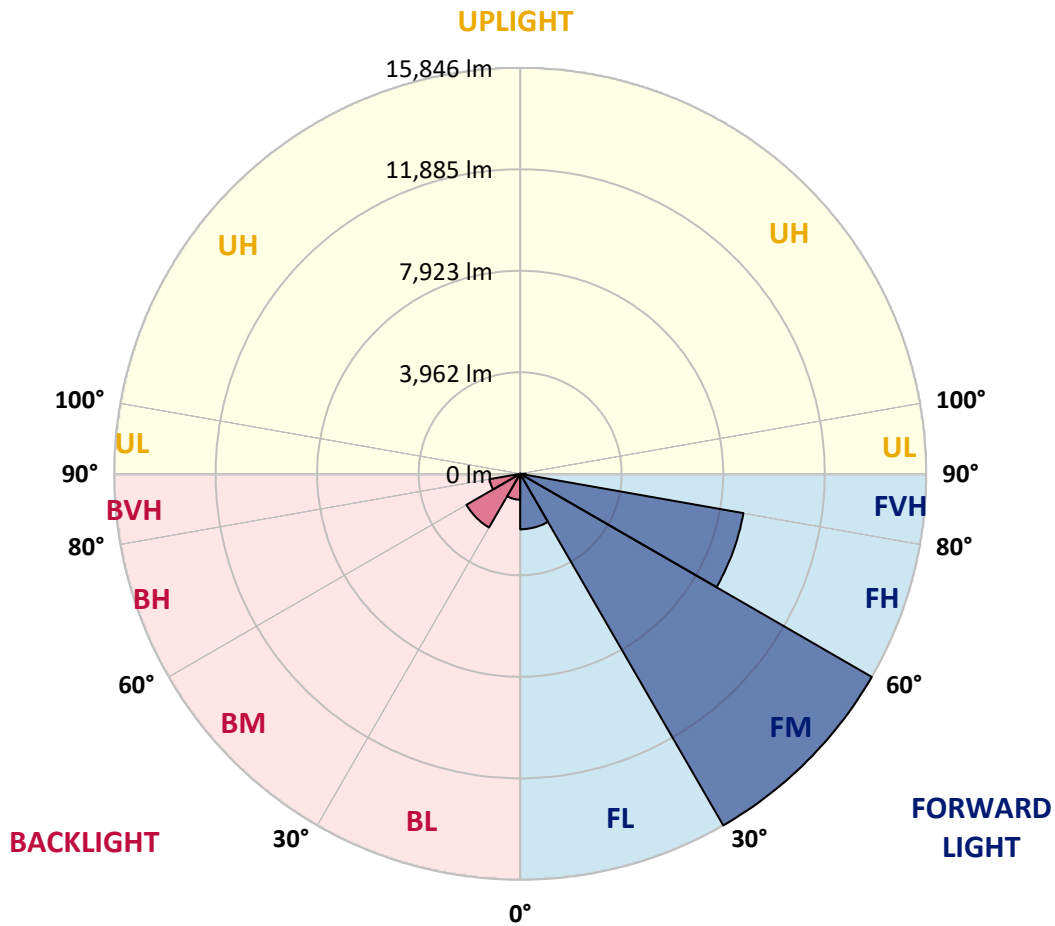
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.1	6.8			
FM (30°-60°)	15846.2	49.9			
FH (60°-80°)	8846.7	27.9			G4/12000
FVH (80°-90°)	208.7	0.7			G2/225
BL (0°-30°)	1009.4	3.2	B3/2500		
BM (30°-60°)	2420.5	7.6	B2/2500		
BH (60°-80°)	1217.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.7	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°	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3
2.5°	4008.0	3997.1	4012.4	4005.8	4001.5	3992.7	3988.4	3984.0	3975.3	3968.7
5°	4018.9	4012.4	4027.7	4040.8	4053.9	4067.0	4073.5	4082.2	4073.5	4056.0
7.5°	3927.2	3922.9	3955.6	3994.9	4053.9	4104.1	4158.6	4189.2	4191.4	4184.8
10°	3920.7	3909.8	3942.5	3990.6	4067.0	4156.5	4252.5	4318.0	4326.7	4355.1
12.5°	4023.3	4012.4	4058.2	4110.6	4189.2	4283.1	4401.0	4492.6	4505.7	4545.0
15°	4195.8	4180.5	4232.9	4300.5	4401.0	4507.9	4632.4	4715.3	4726.2	4774.3
17.5°	4396.6	4381.3	4442.4	4514.5	4623.6	4769.9	4914.0	5005.7	5018.8	5049.3
20°	4654.2	4634.5	4682.6	4748.1	4863.8	5038.4	5210.9	5341.8	5339.7	5339.7
22.5°	4953.3	4922.7	4964.2	5016.6	5125.7	5337.5	5566.7	5721.7	5721.7	5660.6
25°	5274.2	5243.6	5289.4	5337.5	5433.5	5673.7	5942.2	6134.3	6143.0	6038.2
27.5°	5675.8	5636.5	5671.5	5728.2	5785.0	6029.5	6348.2	6570.9	6575.2	6413.7
30°	6448.6	6337.3	6228.1	6167.0	6193.2	6435.5	6776.1	7022.8	7044.6	6821.9
32.5°	7863.2	7841.4	7457.2	6955.1	6693.1	6872.1	7254.2	7551.0	7564.1	7278.2
35°	10061.5	10035.3	9417.5	8461.4	7607.8	7457.2	7834.8	8186.3	8177.6	7854.5
37.5°	12685.5	12661.5	11847.2	10568.0	9186.1	8341.3	8583.6	8952.5	9007.1	8583.6
40°	14927.5	14838.0	14322.8	13089.4	11281.8	9808.3	9648.9	9893.4	9950.2	9448.1
42.5°	16625.8	16549.4	16287.5	15516.9	13818.5	11978.2	10904.2	10998.0	11061.3	10458.8
45°	17505.6	17488.1	17592.9	17520.9	16403.2	14641.5	12698.6	12307.8	12331.9	11578.7
47.5°	17630.0	17621.3	18099.4	18776.1	18625.5	17645.3	15001.7	13940.7	13855.6	12842.7
50°	16896.5	16879.1	17795.9	19064.3	20109.9	20168.9	17616.9	15781.0	15593.3	14150.3
52.5°	14554.2	14549.8	16056.1	18167.0	20631.7	22378.1	20201.6	17802.5	17488.1	15534.3
55°	11198.9	11279.6	13006.4	15501.6	19679.9	23441.2	22522.2	20046.6	19564.2	16927.1
57.5°	7933.1	8051.0	9758.1	11980.4	16728.4	22812.5	24091.8	22295.1	21775.6	18315.5
60°	4261.2	4366.0	6075.3	8727.7	12445.4	20467.9	24919.1	24246.7	23755.6	19634.0
62.5°	2538.8	2573.8	3281.1	5634.4	8417.7	15636.9	24567.6	25733.4	25329.5	20740.8
65°	1822.8	1829.4	2185.2	3440.4	5110.4	9500.5	22103.0	26445.0	26320.6	21574.7
67.5°	1534.7	1530.3	1678.7	2285.6	3481.9	4759.0	16940.2	25438.7	25967.0	22103.0
70°	1316.4	1322.9	1497.5	1674.4	2617.4	2693.8	8422.1	22148.9	23275.3	22242.7
72.5°	980.2	1002.0	1163.5	1525.9	1975.6	1853.4	2907.8	16422.8	18459.6	20956.9
75°	692.0	702.9	818.6	1283.6	1473.5	1349.1	1484.4	8489.7	11100.6	16067.0
77.5°	532.7	552.3	620.0	897.2	1451.7	947.4	908.1	2938.3	4514.5	9705.7
80°	288.2	323.1	447.5	648.4	1019.5	670.2	449.7	1170.1	1530.3	4538.5
82.5°	148.4	165.9	312.2	467.2	580.7	585.0	222.7	486.8	630.9	1401.5
85°	58.9	72.0	209.6	257.6	299.1	288.2	100.4	196.5	227.0	388.6
87.5°	13.1	21.8	76.4	58.9	56.8	61.1	24.0	45.8	43.7	45.8
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°
3916.3	0°	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3	3916.3
3942.5	2.5°	3940.3	3931.6	3907.6	3881.4	3850.8	3833.4	3822.5	3820.3	3805.0	3794.1
4029.8	5°	4005.8	3997.1	3951.3	3896.7	3837.7	3791.9	3748.2	3708.9	3652.2	3641.3
4156.5	7.5°	4136.8	4112.8	4038.6	3964.4	3853.0	3719.9	3558.3	3372.8	3206.8	3156.6
4324.6	10°	4298.4	4265.6	4171.7	4040.8	3794.1	3431.7	3040.9	2678.6	2390.4	2309.6
4523.2	12.5°	4481.7	4453.3	4328.9	4086.6	3547.4	2890.3	2292.2	1842.5	1563.0	1493.2
4735.0	15°	4700.0	4658.6	4486.1	4016.7	3106.4	2196.1	1574.0	1307.6	1207.2	1194.1
4977.3	17.5°	4931.4	4863.8	4625.8	3765.7	2512.6	1560.9	1215.9	1139.5	1095.9	1082.8
5221.8	20°	5143.2	5055.9	4708.8	3385.9	1877.4	1215.9	1089.3	1039.1	999.8	984.5
5466.3	22.5°	5354.9	5230.5	4708.8	2868.5	1408.0	1078.4	999.8	954.0	908.1	888.5
5728.2	25°	5575.4	5409.5	4625.8	2292.2	1133.0	988.9	914.7	864.5	825.2	801.2
5977.1	27.5°	5789.4	5560.1	4435.9	1746.4	1008.6	910.3	836.1	788.1	751.0	733.5
6247.8	30°	5992.4	5708.6	4169.6	1325.1	927.8	833.9	764.1	722.6	685.5	668.0
6599.3	32.5°	6267.4	5896.3	3885.8	1087.1	857.9	761.9	698.6	659.3	626.5	613.4
7055.5	35°	6649.5	6173.6	3641.3	1067.5	799.0	702.9	639.6	602.5	569.8	558.9
7644.9	37.5°	7190.9	6621.1	3512.5	1198.5	751.0	650.5	591.6	552.3	521.7	513.0
8393.7	40°	7858.9	7228.0	3582.3	1329.5	718.2	604.7	547.9	508.6	482.4	471.5
9253.8	42.5°	8651.3	7976.7	3968.7	1429.9	696.4	565.4	506.5	462.8	445.3	441.0
10229.6	45°	9561.6	8799.7	4560.3	1536.8	661.5	528.3	465.0	432.2	419.1	417.0
11290.6	47.5°	10596.4	9703.5	5245.8	1670.0	626.5	493.4	432.2	410.4	399.5	395.1
12397.3	50°	11622.4	10613.8	5950.9	1744.2	598.1	460.6	406.0	388.6	379.8	377.7
13567.4	52.5°	12696.4	11550.3	6520.7	1674.4	574.1	434.4	384.2	371.1	362.4	360.2
14645.8	55°	13720.2	12307.8	6618.9	1421.1	526.1	408.2	360.2	353.6	342.7	342.7
15739.5	57.5°	14602.2	12687.7	5924.7	1043.5	478.1	368.9	336.2	329.6	320.9	318.7
16726.3	60°	15412.1	12578.5	4573.4	702.9	425.7	329.6	305.6	301.3	292.5	281.6
17584.2	62.5°	15868.3	12098.3	3128.3	458.4	373.3	288.2	270.7	268.5	248.9	227.0
18219.4	65°	16040.8	11111.5	1951.6	334.0	312.2	246.7	233.6	229.2	200.8	176.8
18579.6	67.5°	15890.2	9487.4	984.5	264.1	246.7	205.2	192.1	192.1	172.5	150.6
18557.8	70°	15287.7	7112.3	414.8	211.8	189.9	157.2	157.2	165.9	146.3	122.2
17595.1	72.5°	13980.0	4785.2	220.5	161.5	141.9	111.3	128.8	135.3	115.7	91.7
14401.3	75°	11113.7	2918.7	152.8	120.1	89.5	78.6	98.2	102.6	78.6	61.1
9873.8	77.5°	7601.3	1676.6	102.6	76.4	56.8	45.8	67.7	63.3	41.5	28.4
3807.2	80°	3337.8	698.6	58.9	34.9	21.8	17.5	24.0	17.5	13.1	8.7
521.7	82.5°	390.8	163.7	21.8	13.1	8.7	4.4	2.2	0.0	0.0	0.0
159.4	85°	80.8	19.6	10.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
28.4	87.5°	15.3	4.4	2.2	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>
3916.3
3805.0
3636.9
3132.6
2279.1
1473.5
1181.0
1076.2
975.8
877.6
792.4
733.5
670.2
613.4
558.9
510.8
469.3
441.0
414.8
395.1
377.7
360.2
340.6
316.5
279.4
222.7
174.6
148.4
120.1
91.7
58.9
30.6
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