

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: P952659

Luminaire Tested: **GALN-SB6B-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952659  
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-SB6B-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

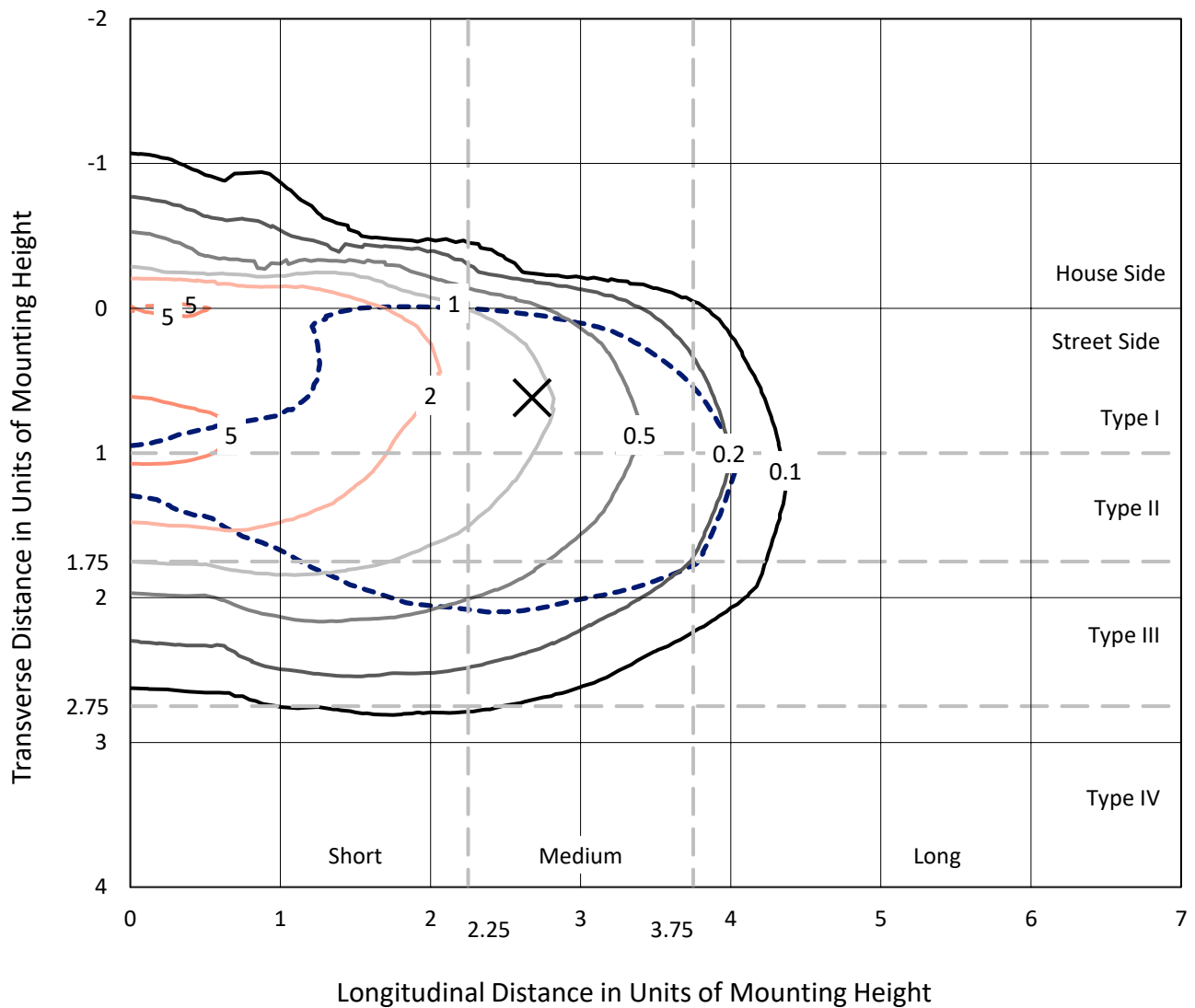
Lumens per Lamp: N/A  
Luminaire Lumens: 20600 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

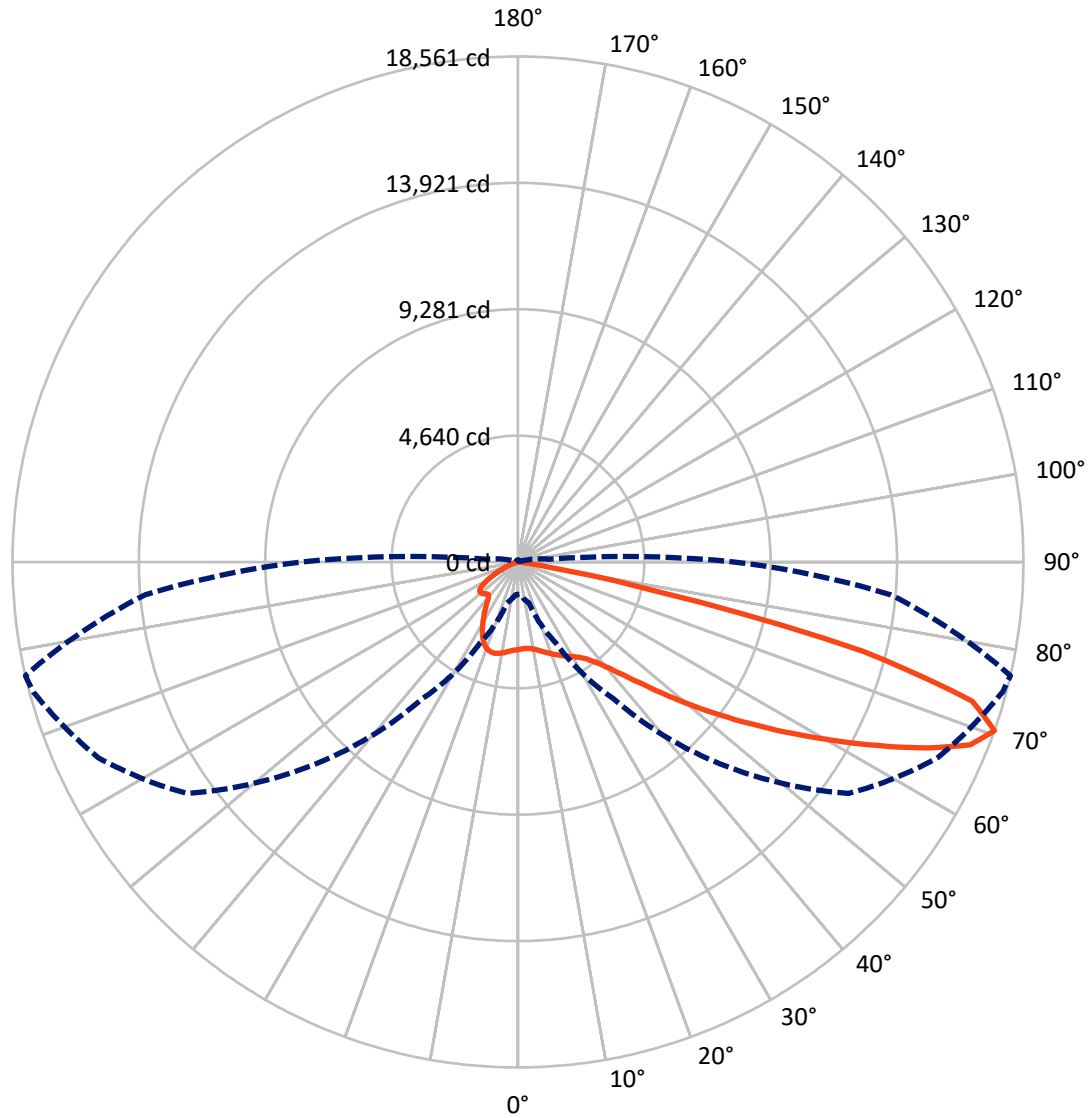
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2171.5	0.0	2171.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	18428.5	0.0	18428.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20600.0	0.0	20600.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.9	1.3
10°-20°	657.4	3.2
20°-30°	1016.8	4.9
30°-40°	1845.1	9.0
40°-50°	3482.8	16.9
50°-60°	5032.3	24.4
60°-70°	5356.8	26.0
70°-80°	2838.7	13.8
80°-90°	93.2	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°	20600.0	100.0
0°-180°	20600.0	100.0



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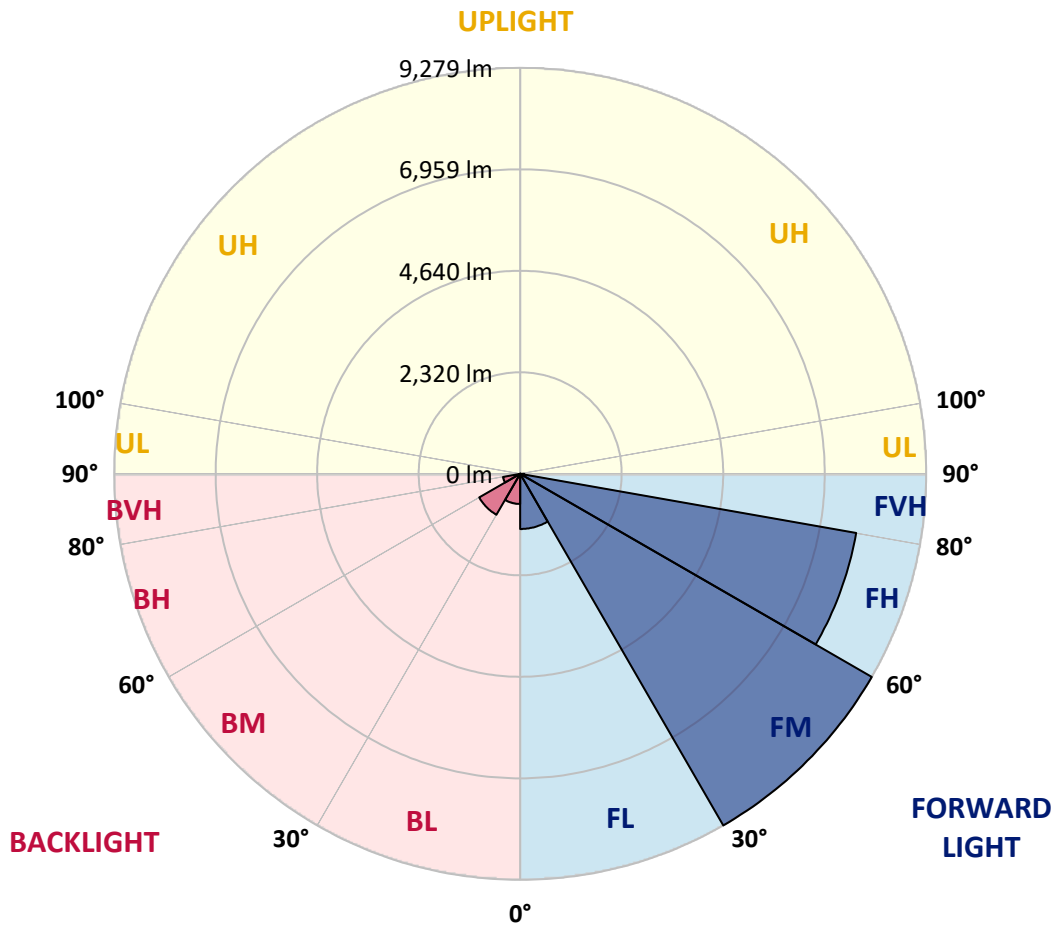
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.2	6.1			
FM (30°-60°)	9279.2	45.0			
FH (60°-80°)	7797.4	37.9			G4/12000
FVH (80°-90°)	90.7	0.4			G1/100
BL (0°-30°)	689.9	3.3	B2/1000		
BM (30°-60°)	1081.0	5.2	B2/2500		
BH (60°-80°)	398.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	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°	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2
2.5°	3016.8	3044.1	3040.2	3058.4	3064.9	3090.9	3117.0	3152.1	3191.1	3189.8
5°	2846.4	2873.7	2880.2	2904.9	2936.1	2976.5	3029.8	3100.0	3172.9	3184.6
7.5°	2644.7	2673.4	2690.3	2739.7	2796.9	2880.2	2967.4	3070.1	3191.1	3208.0
10°	2443.1	2469.1	2491.2	2561.5	2652.5	2776.1	2917.9	3066.2	3228.8	3253.6
12.5°	2318.2	2342.9	2367.6	2428.8	2542.0	2692.9	2885.4	3084.4	3291.3	3326.4
15°	2274.0	2296.1	2315.6	2370.2	2475.6	2647.3	2878.9	3122.2	3370.6	3417.5
17.5°	2280.5	2292.2	2305.2	2346.8	2449.6	2626.5	2890.6	3187.2	3464.3	3505.9
20°	2318.2	2324.7	2326.0	2354.6	2445.7	2623.9	2914.0	3249.7	3552.8	3608.7
22.5°	2366.3	2368.9	2366.3	2385.9	2470.4	2643.4	2945.2	3325.1	3651.6	3703.7
25°	2591.4	2542.0	2479.5	2441.8	2512.0	2681.2	2992.1	3426.6	3759.6	3810.3
27.5°	3290.0	3148.2	2924.4	2673.4	2597.9	2735.8	3057.1	3529.3	3868.9	3914.4
30°	4424.4	4238.3	3858.5	3292.6	2873.7	2850.3	3141.7	3632.1	3984.7	4034.1
32.5°	5561.4	5515.8	5077.4	4294.3	3494.2	3105.3	3282.2	3771.3	4138.2	4177.2
35°	6711.4	6619.0	6259.9	5485.9	4450.4	3624.3	3516.3	3953.4	4339.8	4384.0
37.5°	7592.1	7536.1	7313.7	6676.2	5584.8	4425.7	3917.0	4235.7	4632.5	4681.9
40°	8370.0	8344.0	8268.5	7848.3	6853.2	5474.2	4540.1	4672.8	5038.4	5096.9
42.5°	8981.4	9042.6	9085.5	8968.4	8160.6	6671.0	5377.9	5286.9	5604.3	5664.1
45°	9607.2	9628.0	9801.0	9970.1	9458.9	7922.5	6322.4	6006.3	6308.1	6382.2
47.5°	10009.1	10092.4	10396.8	10694.7	10550.3	9163.6	7337.1	6855.8	7123.7	7262.9
50°	10039.1	10196.5	10615.4	11134.4	11345.2	10344.8	8440.3	7823.6	8108.5	8262.0
52.5°	9540.8	9785.4	10434.5	11194.3	11774.5	11345.2	9581.1	8791.5	9157.0	9357.4
55°	7315.0	7635.0	9754.2	10869.0	11791.4	12103.6	10692.1	9799.7	10325.3	10551.6
57.5°	6373.1	6534.4	7668.8	10304.4	11477.9	12409.3	11696.4	10759.8	11596.2	11877.2
60°	5302.5	5514.5	6431.7	9380.8	11052.5	12439.2	12583.6	11998.2	12973.9	13290.0
62.5°	3603.5	3833.8	4745.7	7793.7	10471.0	12424.9	13310.8	13273.1	14505.1	14844.6
65°	2232.3	2376.7	2977.8	6364.0	9657.9	12440.5	14071.9	14821.2	16120.8	16465.5
67.5°	1764.0	1830.4	2143.9	4886.2	8256.8	12089.3	14831.6	16276.9	17641.5	17914.7
70°	1185.1	1225.4	1559.8	3275.7	6142.9	10468.4	14817.3	17008.0	18424.7	18561.3
72.5°	624.4	655.7	911.9	1516.9	3710.2	7441.2	12490.0	16133.8	17645.4	17439.9
75°	312.2	364.3	614.0	770.1	1584.5	4149.9	7756.0	12720.2	13888.4	13092.3
77.5°	236.8	286.2	507.4	507.4	551.6	1397.2	3284.8	6937.7	6399.1	5328.5
80°	150.9	195.1	443.6	383.8	230.3	355.1	856.0	1943.5	1359.4	1034.2
82.5°	88.5	127.5	369.5	253.7	128.8	131.4	242.0	413.7	352.5	274.5
85°	35.1	83.3	253.7	100.2	50.7	32.5	72.9	88.5	72.9	54.6
87.5°	0.0	19.5	44.2	0.0	3.9	2.6	5.2	6.5	6.5	5.2
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°
3213.2	0°	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2	3213.2
3215.8	2.5°	3227.5	3230.1	3237.9	3239.2	3221.0	3197.6	3188.5	3184.6	3169.0	3167.7
3236.6	5°	3266.6	3278.3	3266.6	3232.7	3152.1	3038.9	2953.0	2882.8	2819.1	2799.5
3308.2	7.5°	3344.6	3356.3	3321.2	3188.5	2985.6	2760.5	2557.6	2414.5	2285.7	2237.6
3395.4	10°	3456.5	3472.1	3361.5	3093.5	2734.5	2372.8	2029.4	1787.4	1598.8	1522.1
3513.7	12.5°	3597.0	3603.5	3383.6	2949.1	2408.0	1891.5	1405.0	1146.1	978.3	915.8
3656.8	15°	3751.8	3742.7	3386.2	2752.7	1963.1	1337.3	917.1	753.2	685.6	664.8
3799.9	17.5°	3914.4	3876.7	3334.2	2469.1	1475.2	914.5	680.4	641.3	629.6	624.4
3941.7	20°	4074.4	3989.9	3239.2	2098.4	1058.9	683.0	617.9	606.2	599.7	597.1
4084.8	22.5°	4220.1	4075.7	3076.6	1667.8	768.8	603.6	584.1	573.7	562.0	556.8
4224.0	25°	4361.9	4125.2	2847.7	1265.8	615.3	564.6	549.0	529.5	513.9	507.4
4373.6	27.5°	4499.8	4156.4	2561.5	936.6	549.0	528.2	499.5	472.2	460.5	457.9
4533.6	30°	4646.8	4166.8	2236.3	698.6	508.7	482.6	441.0	409.8	403.3	404.6
4749.6	32.5°	4826.3	4182.4	1908.4	572.4	474.8	428.0	378.6	346.0	340.8	346.0
5064.4	35°	5041.0	4213.6	1592.3	526.9	444.9	372.1	318.7	291.4	286.2	290.1
5467.7	37.5°	5332.4	4264.4	1297.0	517.8	420.2	325.2	268.0	245.9	245.9	247.2
5962.0	40°	5720.1	4399.7	1032.9	511.3	407.2	290.1	226.4	217.3	221.2	223.8
6591.7	42.5°	6192.3	4687.1	854.7	503.4	392.9	274.5	205.5	201.6	208.1	210.7
7346.2	45°	6721.8	5051.4	792.2	490.4	379.9	284.9	196.4	191.2	199.0	200.3
8191.8	47.5°	7269.4	5407.8	784.4	476.1	366.9	300.5	193.8	182.1	191.2	192.5
9094.6	50°	7823.6	5640.7	792.2	454.0	346.0	300.5	195.1	173.0	180.8	184.7
10031.3	52.5°	8381.7	5747.4	787.0	405.9	309.6	282.3	195.1	165.2	173.0	175.6
11043.4	55°	8922.9	5726.6	707.7	334.3	262.8	249.8	189.9	158.7	163.9	165.2
11999.5	57.5°	9350.9	5436.5	560.7	260.2	213.3	208.1	173.0	150.9	154.8	153.5
12876.3	60°	9574.6	4799.0	400.7	200.3	167.8	163.9	152.2	140.5	143.1	136.6
13619.1	62.5°	9577.2	3956.0	268.0	158.7	134.0	130.1	130.1	126.2	123.6	110.6
14194.1	65°	9373.0	3020.7	178.2	126.2	108.0	101.5	109.3	108.0	98.9	80.7
14369.8	67.5°	8909.9	1980.0	135.3	98.9	83.3	79.4	87.2	91.1	84.6	67.6
13729.7	70°	7957.6	1152.6	111.9	76.8	62.4	58.5	70.2	78.1	70.2	54.6
11735.4	72.5°	6609.9	621.8	91.1	57.2	42.9	39.0	55.9	63.7	55.9	40.3
7529.6	75°	4289.1	333.0	70.2	37.7	22.1	24.7	41.6	46.8	39.0	26.0
2210.2	77.5°	1440.1	147.0	44.2	18.2	10.4	10.4	24.7	28.6	18.2	9.1
402.0	80°	321.3	61.1	18.2	7.8	3.9	3.9	5.2	5.2	2.6	0.0
123.6	82.5°	105.4	24.7	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
31.2	85°	40.3	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	15.6	1.3	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>
3213.2
3170.3
2787.8
2218.0
1489.5
896.3
664.8
623.1
594.5
555.5
504.7
455.3
404.6
344.7
288.8
245.9
223.8
210.7
201.6
193.8
186.0
175.6
165.2
153.5
135.3
106.7
78.1
66.3
52.0
39.0
23.4
7.8
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