

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: P955868

Luminaire Tested: **GALN-SB8C-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8C-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

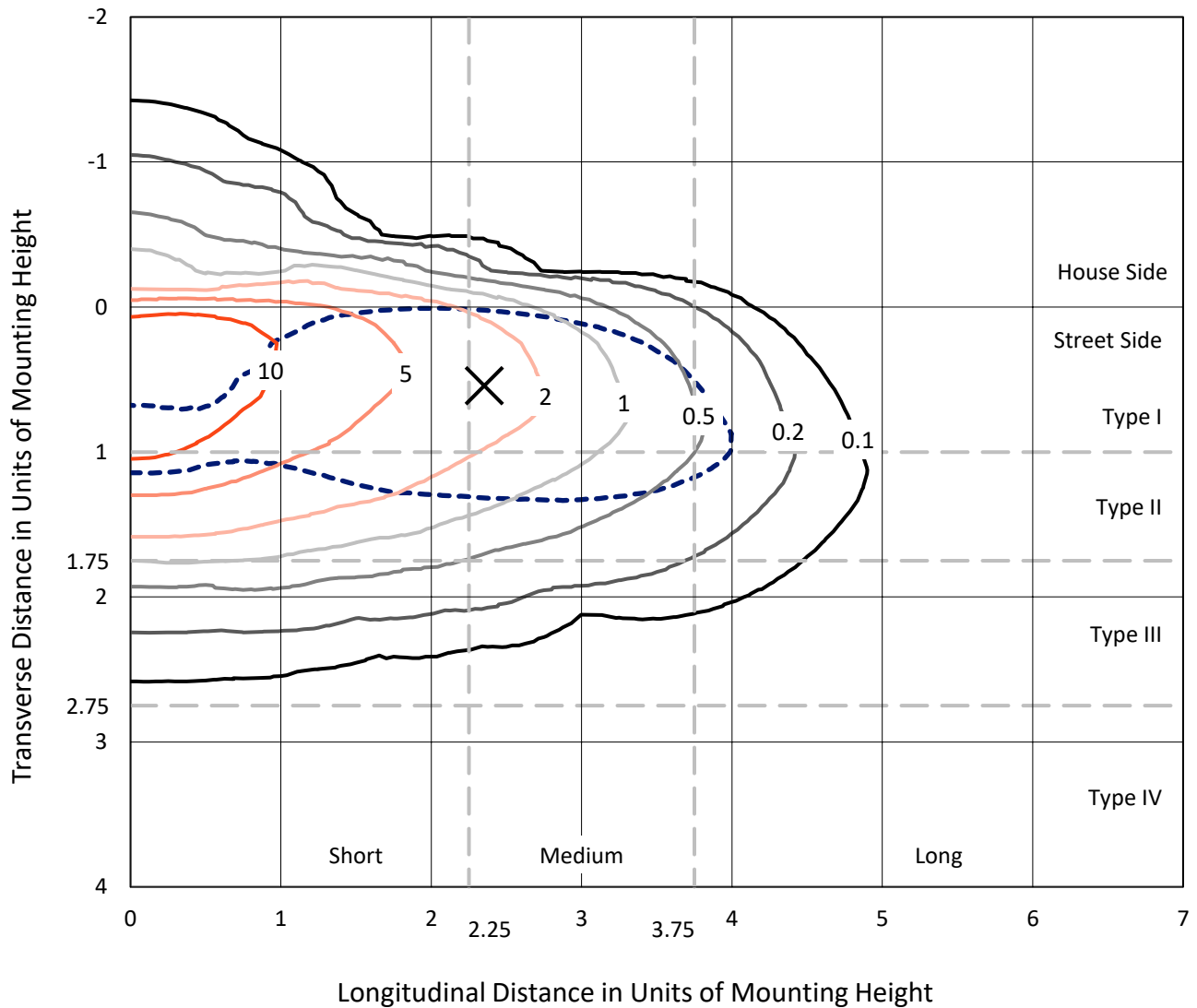
Lumens per Lamp: N/A  
Luminaire Lumens: 37155 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

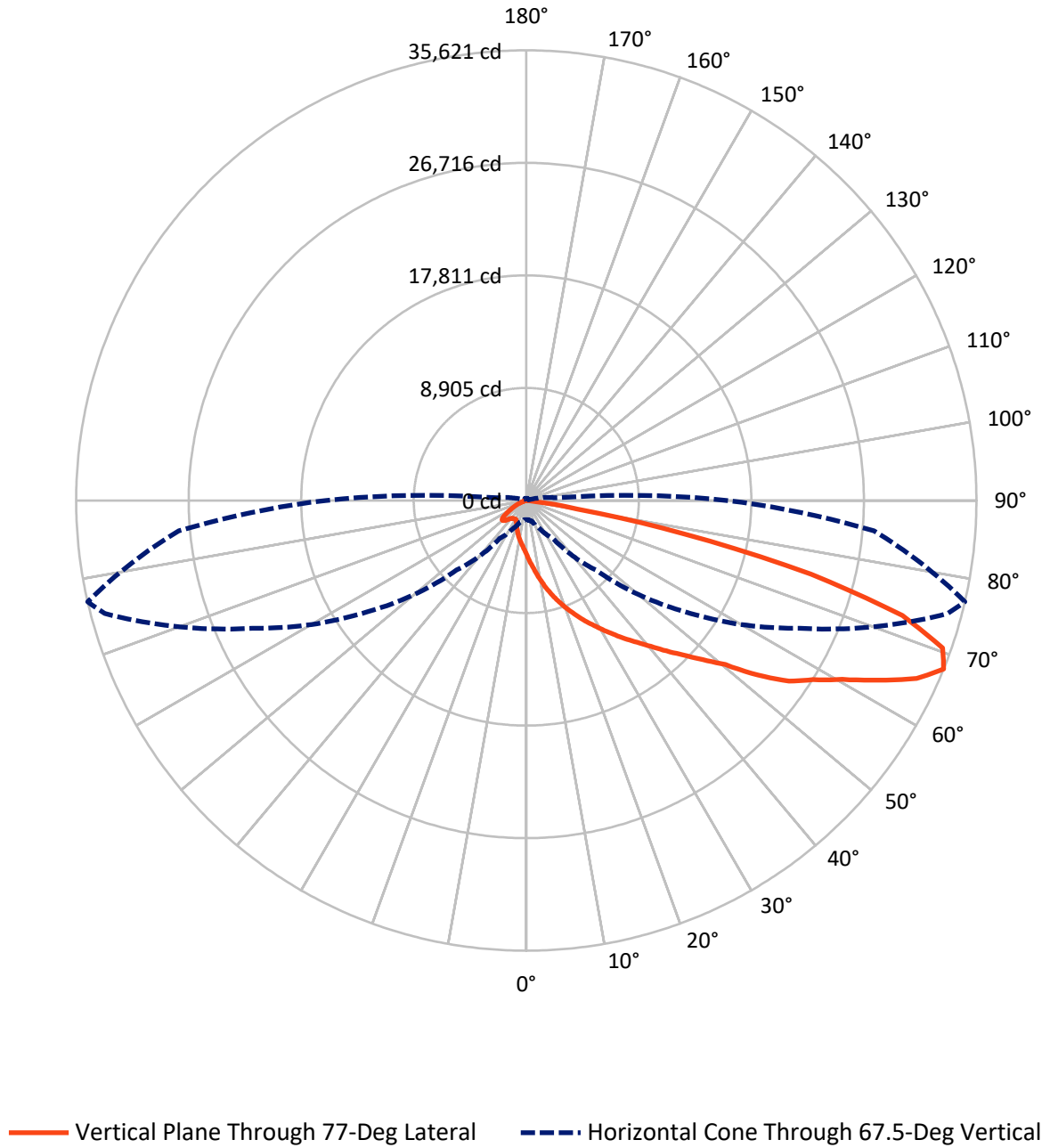
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2733.5	0.0	2733.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	34421.5	0.0	34421.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	37155.0	0.0	37155.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.3	1.2
10°-20°	1531.4	4.1
20°-30°	2955.2	8.0
30°-40°	5130.3	13.8
40°-50°	7449.0	20.0
50°-60°	8554.2	23.0
60°-70°	7426.6	20.0
70°-80°	3498.0	9.4
80°-90°	173.0	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°	37155.0	100.0
0°-180°	37155.0	100.0

**Coefficient of Utilization**

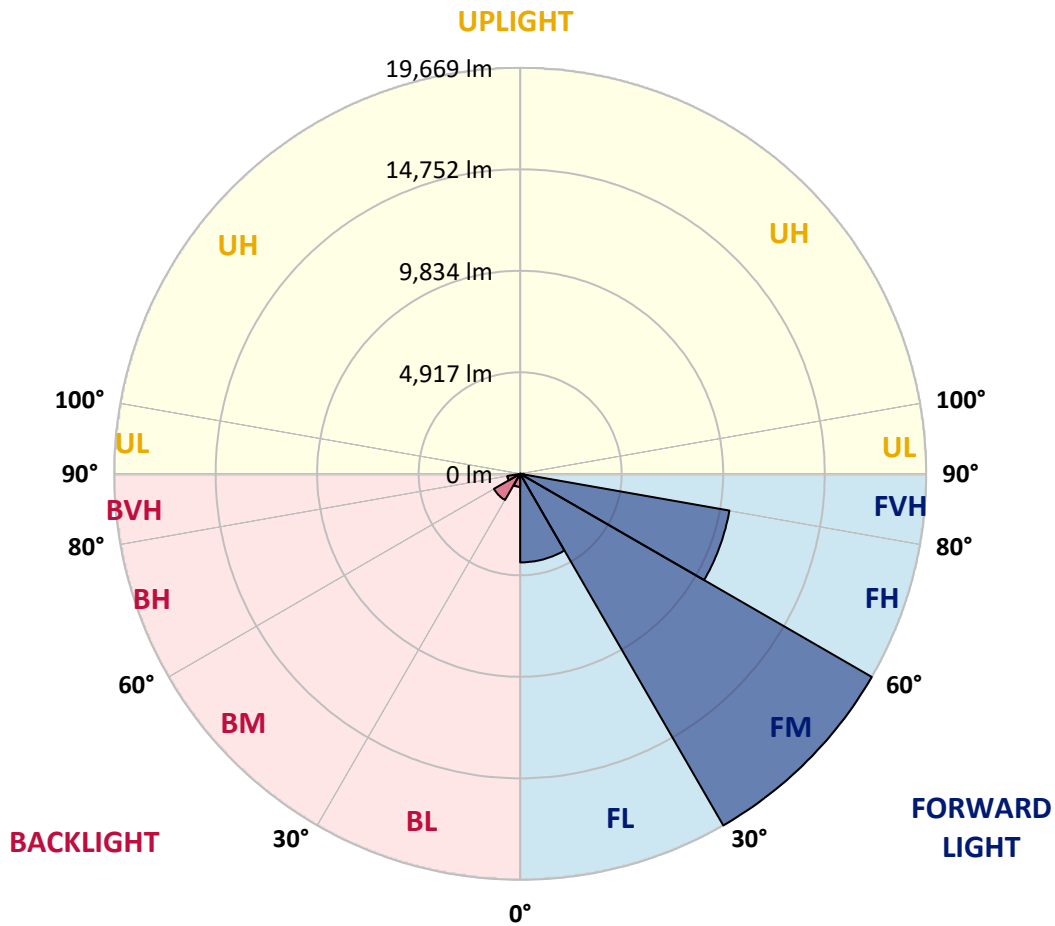


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4291.0	11.5			
FM (30°-60°)	19668.9	52.9			
FH (60°-80°)	10291.8	27.7			G4/12000
FVH (80°-90°)	169.8	0.5			G2/225
BL (0°-30°)	632.8	1.7	B2/1000		
BM (30°-60°)	1464.6	3.9	B2/2500		
BH (60°-80°)	632.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5
2.5°	5931.9	5968.8	5915.7	5814.2	5661.9	5562.7	5320.5	5092.0	4838.3	4757.5
5°	7230.8	7263.1	7203.2	7092.4	6889.4	6695.6	6377.2	5899.6	5403.5	5244.3
7.5°	8193.0	8211.4	8188.3	8086.8	7893.0	7673.8	7318.5	6753.2	6017.2	5841.9
10°	8885.1	8945.1	8938.2	8899.0	8769.8	8592.1	8213.7	7570.0	6704.8	6478.7
12.5°	9344.3	9411.2	9450.4	9538.1	9531.1	9418.1	9085.9	8405.2	7390.0	7124.7
15°	9478.1	9549.6	9699.6	9902.6	10082.6	10140.3	9907.2	9224.3	8144.5	7805.3
17.5°	9401.9	9512.7	9692.7	10013.4	10407.9	10668.6	10643.2	10015.7	8829.8	8442.1
20°	9570.4	9676.5	9817.2	10087.2	10546.3	11019.3	11208.5	10772.4	9510.4	9104.3
22.5°	10502.5	10484.0	10497.9	10541.7	10816.3	11284.6	11674.6	11460.0	10184.1	9768.8
25°	11979.1	11896.1	11755.3	11517.7	11448.5	11674.6	12080.6	12069.1	10894.7	10449.4
27.5°	13672.6	13658.8	13328.8	12756.6	12433.6	12346.0	12539.8	12662.1	11598.4	11123.1
30°	15294.6	15331.5	14886.2	14249.4	13656.5	13312.7	13137.3	13225.0	12313.7	11849.9
32.5°	16706.6	16745.8	16261.3	15516.1	14782.4	14367.1	13997.9	13781.1	13093.5	12588.2
35°	17899.5	17938.7	17382.6	16559.0	15776.8	15400.7	14983.1	14390.2	13878.0	13407.3
37.5°	18965.4	18953.9	18208.6	17378.0	16609.7	16312.1	16092.9	15140.0	14685.5	14231.0
40°	19595.3	19643.7	19006.9	18091.0	17345.7	17128.8	17115.0	16069.8	15617.6	15176.9
42.5°	19779.8	19865.2	19403.8	18651.6	17975.6	17740.3	18102.5	17075.8	16702.0	16272.9
45°	19447.6	19530.7	19320.7	18799.3	18404.7	18252.5	18951.5	18118.6	17860.2	17435.7
47.5°	18478.6	18582.4	18633.2	18522.4	18517.8	18672.4	19712.9	19216.9	19235.3	18801.6
50°	16602.8	16778.1	17244.2	17636.4	18243.2	19004.6	20453.6	20407.4	20785.8	20412.0
52.5°	13192.7	13441.9	15047.7	16120.6	17484.2	18942.3	21268.0	22317.8	23506.0	22959.2
55°	10601.7	10601.7	11907.6	13914.9	16002.9	18531.6	21623.3	23559.1	25358.7	25229.5
57.5°	8642.9	8746.7	9579.6	11353.9	13859.5	17553.4	21842.5	24338.9	26851.5	26756.9
60°	5334.3	5558.1	7131.6	8882.8	11420.8	15811.4	21704.1	25128.0	28662.7	28738.8
62.5°	3004.0	3087.1	3788.5	6391.0	8880.5	13469.6	20645.1	25568.7	30979.1	31302.1
65°	2074.2	2115.7	2385.7	3977.7	6155.7	10724.0	18575.5	25294.1	33300.2	33953.1
67.5°	1506.6	1527.4	1695.8	2429.5	3652.3	7775.3	15331.5	23909.8	34529.9	35621.3
70°	1158.2	1172.1	1294.4	1596.6	2157.3	4799.0	11134.7	21157.3	33639.3	34942.9
72.5°	941.3	955.2	1049.8	1181.3	1430.5	2837.9	6748.6	17181.9	29707.8	31115.2
75°	793.7	812.1	897.5	982.9	1121.3	1822.7	3165.5	11965.3	22340.9	23263.8
77.5°	440.7	406.1	729.1	814.5	946.0	1153.6	1481.2	7041.7	12512.1	12768.2
80°	274.6	283.8	579.1	655.3	726.8	581.4	678.3	2711.0	4337.6	4120.7
82.5°	16.2	36.9	445.3	473.0	498.4	249.2	256.1	920.6	1045.2	959.8
85°	0.0	0.0	203.0	163.8	173.0	71.5	73.8	214.6	140.7	152.3
87.5°	0.0	0.0	0.0	4.6	0.0	6.9	13.8	18.5	6.9	9.2
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°
4284.5	0°	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5	4284.5
4503.7	2.5°	4342.2	4180.7	3853.1	3532.4	3271.6	3029.4	2856.3	2692.5	2609.5	2604.9
4794.4	5°	4473.7	4134.5	3479.3	2900.2	2434.1	2060.4	1818.1	1645.1	1557.4	1527.4
5152.0	7.5°	4658.3	4148.4	3151.7	2346.4	1797.3	1476.6	1338.2	1282.8	1264.4	1243.6
5555.8	10°	4891.3	4180.7	2858.7	1889.6	1416.6	1255.1	1199.8	1176.7	1162.8	1149.0
6010.3	12.5°	5152.0	4210.7	2567.9	1568.9	1245.9	1162.8	1123.6	1095.9	1077.5	1061.3
6476.4	15°	5405.8	4229.1	2265.7	1345.1	1158.2	1091.3	1049.8	1019.8	994.4	976.0
6933.2	17.5°	5657.3	4254.5	1981.9	1211.3	1086.7	1019.8	978.3	941.3	920.6	899.8
7413.1	20°	5936.5	4249.9	1714.3	1116.7	1015.2	948.3	904.4	869.8	849.1	826.0
7920.7	22.5°	6194.9	4226.8	1478.9	1035.9	941.3	876.7	828.3	793.7	772.9	754.5
8439.8	25°	6492.5	4208.4	1282.8	962.1	872.1	807.5	754.5	722.2	699.1	682.9
8961.3	27.5°	6778.6	4180.7	1139.8	895.2	805.2	742.9	692.2	655.3	634.5	623.0
9498.8	30°	7060.1	4173.8	1086.7	830.6	745.2	682.9	632.2	597.6	581.4	576.8
10089.5	32.5°	7399.3	4192.2	1109.8	807.5	689.9	627.6	579.1	553.7	537.6	537.6
10747.1	35°	7761.5	4187.6	1144.4	828.3	652.9	572.2	535.3	519.1	503.0	503.0
11476.1	37.5°	8216.0	4194.5	1172.1	862.9	639.1	526.0	505.3	484.5	475.3	475.3
12274.4	40°	8894.4	4423.0	1158.2	892.9	634.5	493.7	452.2	445.3	438.4	438.4
13176.6	42.5°	9725.0	4919.0	1176.7	895.2	632.2	470.7	415.3	429.1	413.0	410.7
14194.1	45°	10634.0	5461.2	1294.4	846.8	629.9	459.1	396.8	413.0	387.6	387.6
15373.0	47.5°	11536.1	5998.8	1414.3	777.5	623.0	456.8	380.7	371.5	364.5	366.8
16909.7	50°	12779.7	6437.2	1460.5	682.9	606.8	452.2	350.7	353.0	348.4	353.0
19076.1	52.5°	14134.1	6529.4	1405.1	576.8	560.7	438.4	329.9	339.2	336.9	341.5
20601.2	55°	14978.5	6430.2	1160.5	479.9	489.1	383.0	309.2	327.6	327.6	327.6
22091.7	57.5°	15850.6	6008.0	823.7	389.9	406.1	313.8	290.7	316.1	313.8	311.5
23886.7	60°	16478.2	5325.1	542.2	320.7	323.0	258.4	269.9	297.6	295.3	283.8
25737.1	62.5°	16946.6	4570.6	348.4	272.3	246.9	233.0	246.9	269.9	260.7	235.3
27306.0	65°	16893.5	3525.4	267.6	233.0	203.0	203.0	214.6	235.3	207.7	166.1
27606.0	67.5°	15908.3	2385.7	221.5	196.1	170.7	168.4	177.7	196.1	177.7	140.7
26069.3	70°	14147.9	1559.7	177.7	152.3	136.1	124.6	143.0	168.4	150.0	113.1
22193.2	72.5°	11483.1	950.6	133.8	110.7	99.2	80.8	113.1	138.4	120.0	83.1
15433.0	75°	7429.3	484.5	92.3	71.5	53.1	48.5	83.1	103.8	83.1	50.8
6847.8	77.5°	2842.5	203.0	50.8	32.3	27.7	23.1	46.1	62.3	34.6	11.5
1326.7	80°	546.8	85.4	25.4	16.2	13.8	9.2	6.9	4.6	0.0	0.0
235.3	82.5°	94.6	27.7	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
46.1	85°	32.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.2	87.5°	11.5	0.0	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>
4284.5
2600.2
1522.8
1239.0
1144.4
1056.7
973.6
897.5
823.7
752.2
680.6
623.0
574.5
537.6
503.0
475.3
438.4
408.4
387.6
366.8
353.0
341.5
327.6
311.5
283.8
230.7
161.5
136.1
108.4
78.4
43.8
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