

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: P956504

Luminaire Tested: **GALN-SB9A-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

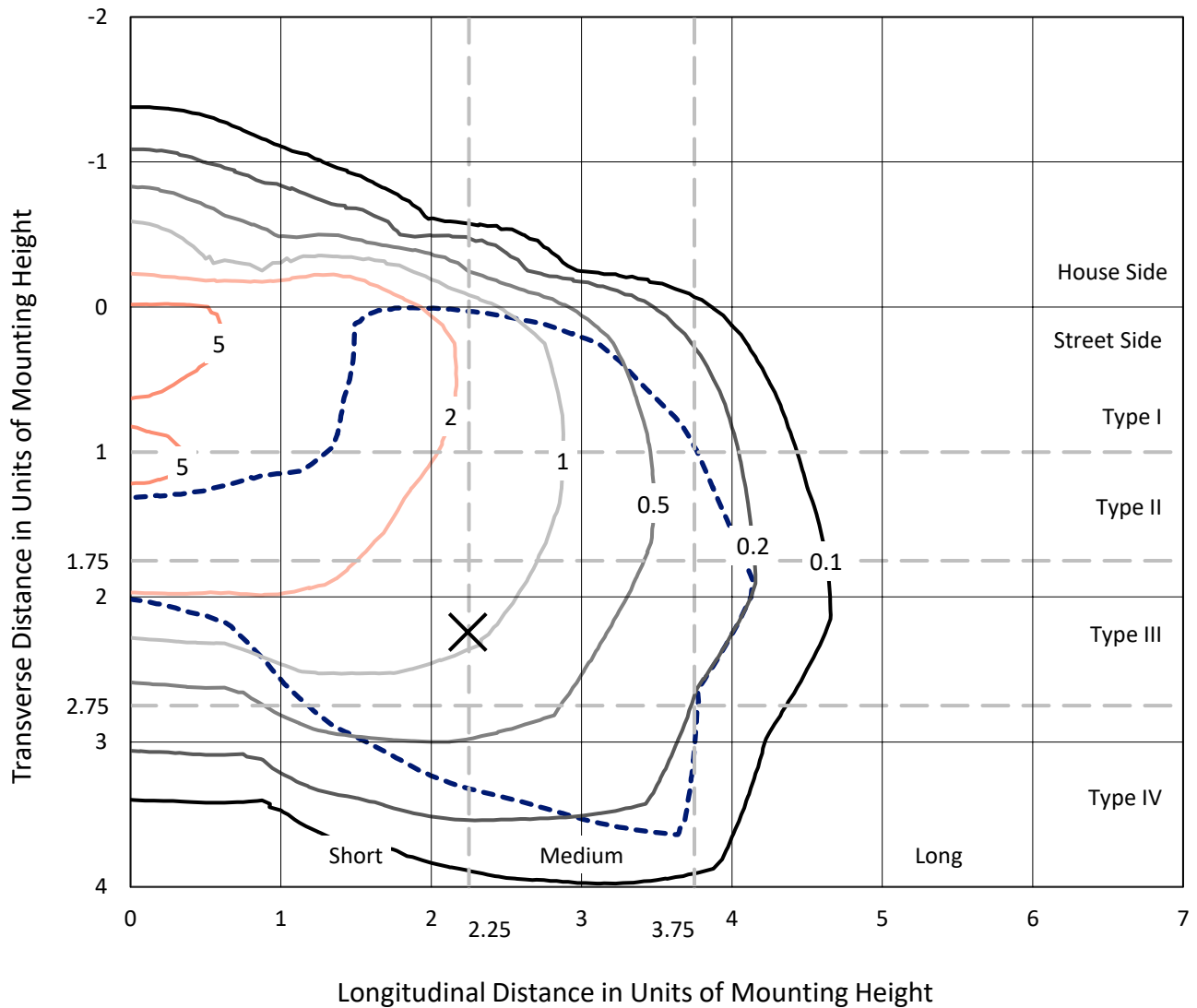
Lumens per Lamp: N/A  
Luminaire Lumens: 30104 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

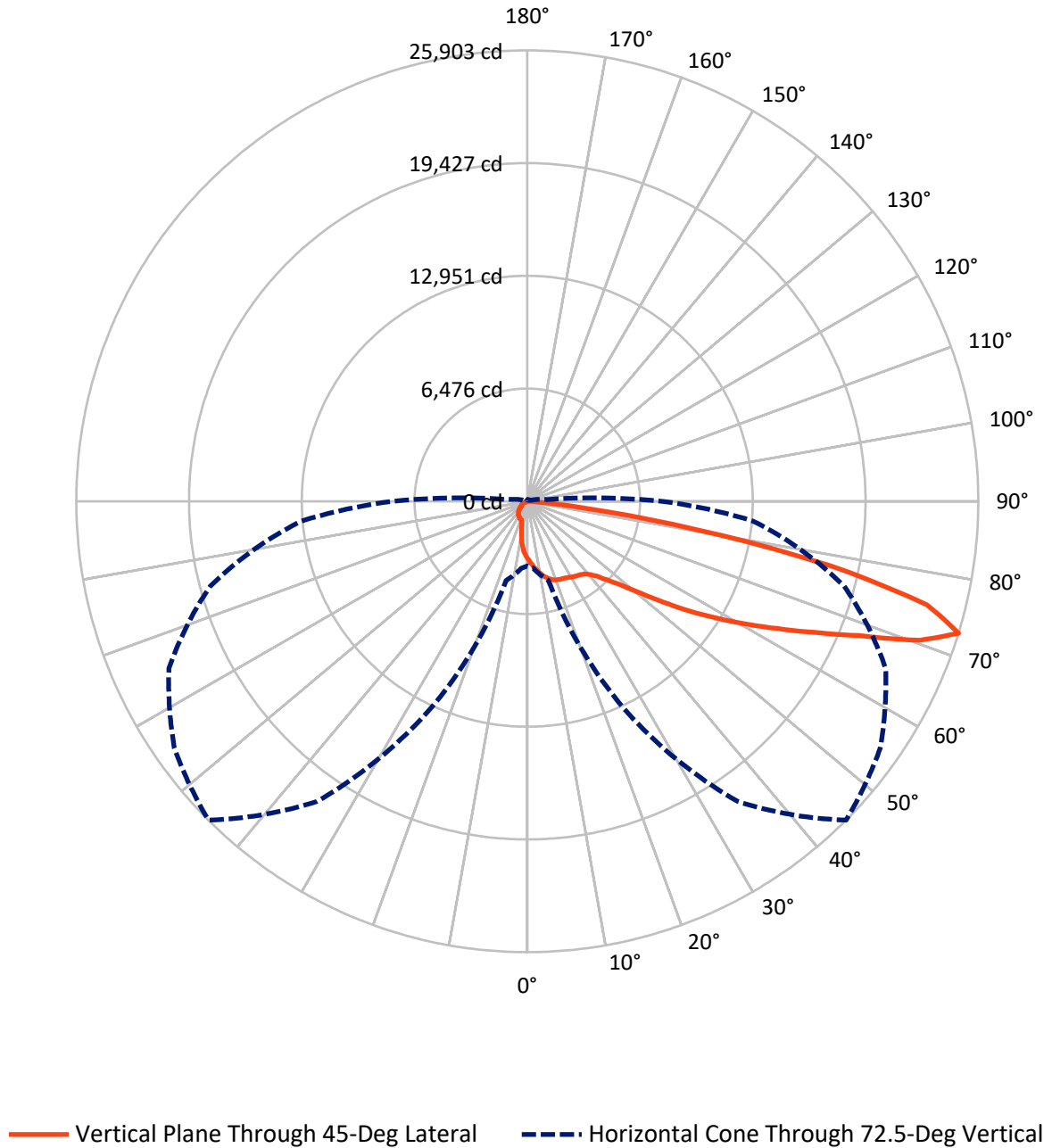
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3163.1	0.0	3163.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	26940.9	0.0	26940.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	30104.0	0.0	30104.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	1.0
10°-20°	908.1	3.0
20°-30°	1491.3	5.0
30°-40°	2115.0	7.0
40°-50°	3495.9	11.6
50°-60°	6280.0	20.9
60°-70°	8720.2	29.0
70°-80°	6325.3	21.0
80°-90°	457.3	1.5
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°	30104.0	100.0
0°-180°	30104.0	100.0

**Coefficient of Utilization**



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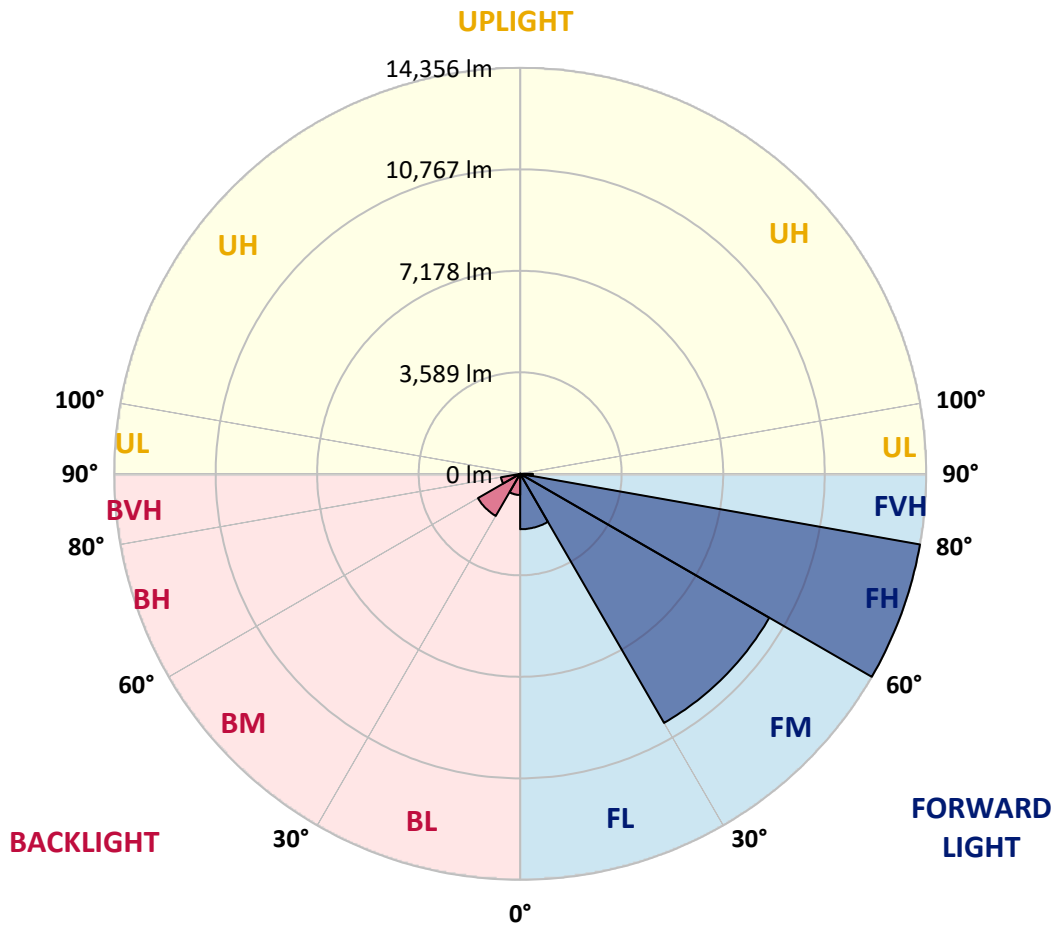
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1961.0	6.5			
FM (30°-60°)	10170.7	33.8			
FH (60°-80°)	14355.7	47.7			G5
FVH (80°-90°)	453.5	1.5			G3/500
BL (0°-30°)	749.2	2.5	B2/1000		
BM (30°-60°)	1720.3	5.7	B2/2500		
BH (60°-80°)	689.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0
2.5°	3602.1	3608.2	3604.1	3579.5	3538.4	3515.8	3503.4	3462.3	3435.6	3388.4
5°	3932.9	3957.5	3943.2	3893.8	3815.8	3760.3	3743.8	3659.6	3583.6	3495.2
7.5°	4284.3	4296.6	4269.9	4206.2	4101.4	4006.9	3992.5	3875.4	3754.1	3618.5
10°	4588.4	4602.8	4561.7	4469.2	4350.0	4232.9	4212.3	4082.9	3939.1	3772.6
12.5°	4843.2	4857.6	4804.1	4693.2	4561.7	4440.4	4419.9	4284.3	4126.0	3941.1
15°	5036.3	5063.0	4991.1	4871.9	4730.2	4608.9	4598.6	4465.1	4311.0	4105.5
17.5°	5149.3	5176.0	5108.2	4964.4	4843.2	4740.4	4728.1	4617.1	4473.3	4276.0
20°	5167.8	5192.5	5120.6	4995.2	4894.5	4812.3	4806.2	4726.0	4621.2	4432.2
22.5°	5112.3	5143.2	5077.4	4976.7	4906.9	4863.7	4855.5	4810.3	4750.7	4590.4
25°	5054.8	5079.5	5030.2	4941.8	4904.8	4900.7	4906.9	4898.6	4886.3	4750.7
27.5°	5050.7	5077.4	5021.9	4937.7	4917.1	4960.3	4966.5	5005.5	5015.8	4896.6
30°	5085.6	5104.1	5050.7	4962.3	4952.1	5050.7	5052.8	5122.6	5139.1	5019.9
32.5°	5161.7	5182.2	5128.8	4999.3	4984.9	5122.6	5128.8	5221.3	5248.0	5151.4
35°	5340.4	5365.1	5303.4	5102.1	5050.7	5190.4	5208.9	5317.8	5371.3	5291.1
37.5°	5786.3	5714.4	5630.2	5309.6	5200.7	5297.3	5328.1	5455.5	5550.0	5457.6
40°	6893.9	6667.8	6404.8	5663.0	5463.7	5525.4	5550.0	5677.4	5806.9	5716.5
42.5°	8556.2	8289.1	7865.8	6476.7	5860.3	5891.1	5909.6	6020.6	6203.4	6131.5
45°	10037.7	9941.1	9509.6	7865.8	6602.1	6450.0	6472.6	6530.2	6799.3	6772.6
47.5°	11176.1	11120.6	10787.7	9460.3	7855.5	7134.3	7198.0	7224.7	7613.0	7707.6
50°	12051.4	12030.9	11732.9	10878.1	9493.2	8143.2	8165.8	8108.2	8689.8	8924.0
52.5°	12877.4	12947.3	12727.4	12195.2	11241.8	9464.4	9460.3	9189.1	9974.0	10327.4
55°	13623.3	13648.0	13670.6	13539.1	13000.7	10968.5	10929.5	10485.7	11463.7	11829.5
57.5°	14324.0	14334.3	14535.7	14804.8	14831.6	12583.6	12511.7	11979.5	13091.1	13352.1
60°	14794.6	14841.8	15267.2	16015.1	16341.8	14250.1	14211.0	13668.5	14747.3	14868.5
62.5°	14116.5	14404.2	15476.8	16960.3	17767.9	16097.3	16078.8	15569.2	16489.8	16391.2
65°	11426.8	11913.7	13800.1	17599.4	19167.2	18160.3	18187.1	17644.6	18279.5	17959.0
67.5°	7993.2	8506.9	10738.4	17650.7	20730.9	20583.0	20737.1	19886.4	20180.2	19461.0
70°	5527.4	5792.5	7245.2	16545.3	21949.4	23920.0	23915.8	22639.8	22070.6	20145.3
72.5°	3717.1	3854.8	4705.5	13126.1	21053.5	25902.8	25783.7	24743.9	22707.6	18840.5
75°	1567.8	1668.5	2178.1	7376.7	16656.2	23698.0	23375.4	21867.2	20176.1	14835.7
77.5°	497.3	540.4	858.9	2640.4	9174.7	17813.1	17472.0	13656.2	13522.7	7442.5
80°	236.3	275.3	482.9	1060.3	3610.3	9688.4	9641.1	6195.2	5817.1	2009.6
82.5°	102.7	121.2	267.1	567.1	1615.1	3456.2	3526.0	2108.2	1744.5	762.3
85°	32.9	43.2	123.3	261.0	682.2	858.9	848.6	501.4	702.7	415.1
87.5°	0.0	0.0	41.1	59.6	69.9	49.3	55.5	43.2	195.2	115.1
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°
3298.0	0°	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0	3298.0
3339.1	2.5°	3314.4	3281.5	3224.0	3170.6	3123.3	3076.0	3047.3	3006.2	3002.1	3002.1
3392.5	5°	3337.0	3283.6	3180.8	3071.9	2946.6	2827.4	2708.2	2593.2	2556.2	2529.5
3478.8	7.5°	3402.8	3318.5	3156.2	2948.6	2710.3	2449.3	2266.4	2069.2	1993.2	1952.1
3593.8	10°	3497.3	3382.2	3135.6	2771.9	2385.6	2030.1	1769.2	1555.5	1473.3	1438.4
3719.2	12.5°	3602.1	3460.3	3098.6	2552.1	2030.1	1604.8	1350.0	1251.4	1239.0	1239.0
3869.2	15°	3727.4	3554.8	3034.9	2293.2	1658.2	1269.9	1179.5	1183.6	1195.9	1204.1
4015.1	17.5°	3856.9	3655.5	2934.3	2003.4	1329.5	1142.5	1144.5	1150.7	1161.0	1169.2
4173.3	20°	3996.6	3756.2	2800.7	1695.2	1140.4	1105.5	1111.6	1117.8	1126.0	1130.1
4321.2	22.5°	4146.6	3850.7	2642.5	1393.2	1076.7	1074.7	1076.7	1082.9	1093.2	1093.2
4493.9	25°	4306.9	3955.5	2461.7	1173.3	1043.8	1043.8	1047.9	1052.1	1060.3	1060.3
4660.3	27.5°	4471.2	4052.1	2270.6	1058.2	1015.1	1013.0	1013.0	1019.2	1023.3	1025.3
4824.7	30°	4652.1	4165.1	2079.5	1033.6	992.5	982.2	976.0	980.1	984.3	986.3
4997.3	32.5°	4837.0	4274.0	1908.9	1043.8	969.9	951.4	930.8	926.7	926.7	934.9
5176.0	35°	5042.5	4393.2	1777.4	1078.8	957.5	906.2	873.3	854.8	856.9	869.2
5389.7	37.5°	5289.1	4537.0	1680.8	1109.6	949.3	854.8	801.4	778.8	764.4	778.8
5683.6	40°	5611.7	4748.6	1611.0	1134.3	939.0	795.2	723.3	686.3	659.6	667.8
6139.7	42.5°	6086.3	5081.5	1584.3	1136.3	916.4	725.3	643.2	593.8	554.8	556.9
6826.1	45°	6752.1	5607.6	1721.9	1109.6	867.1	649.3	558.9	493.2	468.5	462.3
7851.4	47.5°	7664.4	6374.0	2040.4	1054.1	795.2	575.3	476.7	421.2	402.7	392.5
9197.3	50°	8887.0	7358.2	2393.8	992.5	723.3	505.5	408.9	374.0	361.6	351.4
10793.9	52.5°	10304.8	8356.9	2683.6	930.8	651.4	443.8	365.8	345.2	334.9	326.7
12335.0	55°	11605.5	9045.2	2667.1	865.1	581.5	394.5	334.9	322.6	310.3	302.1
13662.4	57.5°	12415.1	9141.8	2198.6	793.2	501.4	355.5	306.2	297.9	283.6	273.3
14811.0	60°	12787.0	8591.1	1541.1	698.6	421.2	318.5	275.3	271.2	252.7	238.4
15898.0	62.5°	12854.8	7567.8	1027.4	581.5	351.4	283.6	244.5	238.4	213.7	189.0
16781.6	65°	12579.5	6104.8	711.0	454.1	300.0	246.6	209.6	197.3	170.5	145.9
16991.2	67.5°	11708.3	4286.3	495.2	326.7	254.8	195.2	166.4	162.3	141.8	121.2
15922.7	70°	10111.7	2443.2	330.8	244.5	201.4	133.6	131.5	135.6	115.1	98.6
13009.0	72.5°	7752.8	1117.8	205.5	178.8	137.7	90.4	104.8	106.8	88.4	74.0
8116.5	75°	4563.7	478.8	129.5	115.1	69.9	59.6	76.0	78.1	59.6	47.3
2967.1	77.5°	1553.4	180.8	82.2	67.8	34.9	32.9	49.3	49.3	32.9	18.5
595.9	80°	353.4	67.8	41.1	26.7	16.4	14.4	16.4	14.4	8.2	2.1
182.9	82.5°	100.7	26.7	16.4	10.3	6.2	6.2	2.1	0.0	0.0	0.0
63.7	85°	28.8	12.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	12.3	2.1	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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180°
3298.0
3012.3
2541.8
1958.2
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1239.0
1204.1
1169.2
1132.2
1097.3
1062.3
1027.4
990.4
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774.7
663.7
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