

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: P956456

Luminaire Tested: **GALN-SB9A-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956456
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-SB9A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA 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: 32087 lumens
Efficiency: N/A
Efficacy: 125.6 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

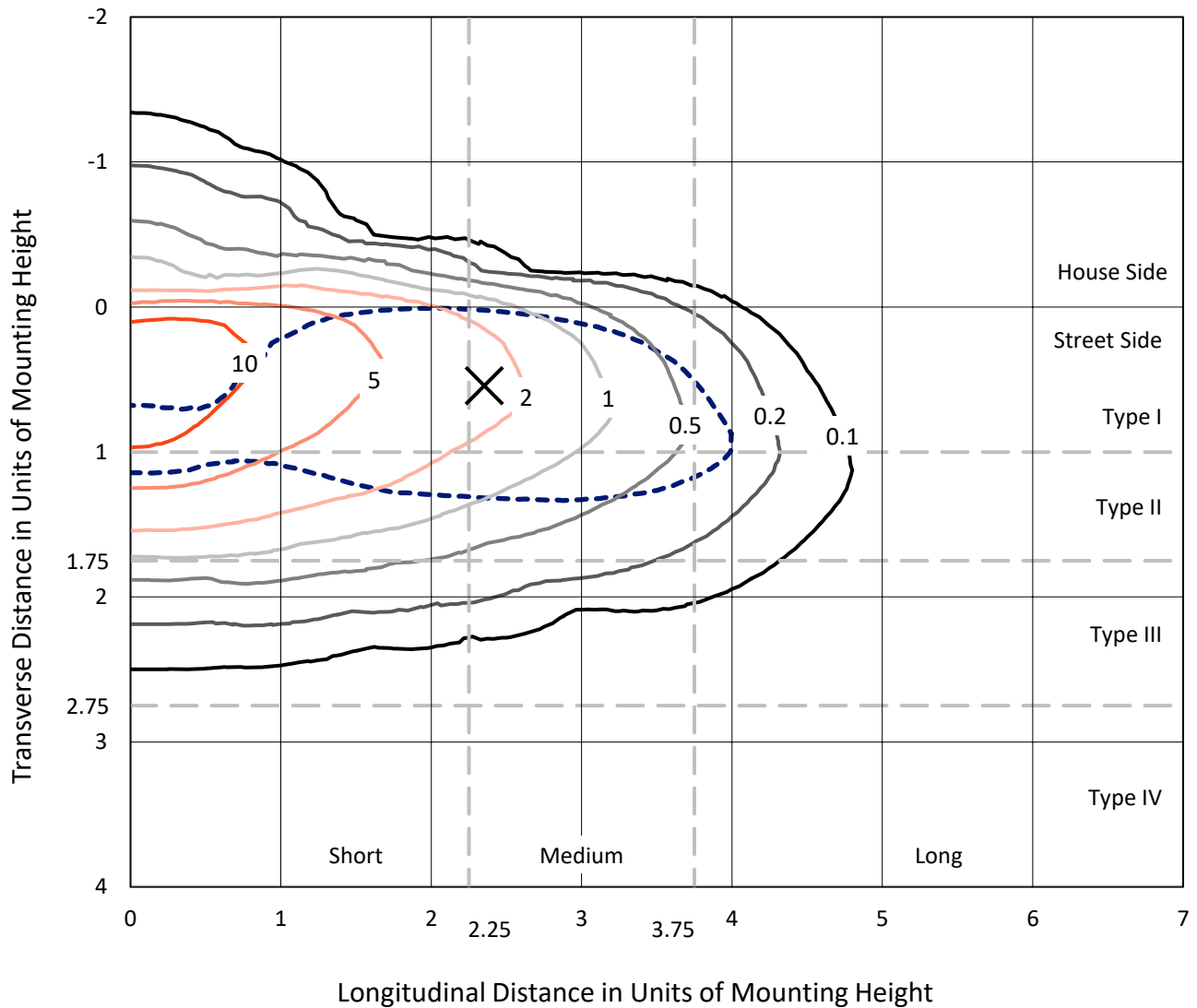
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB9A-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

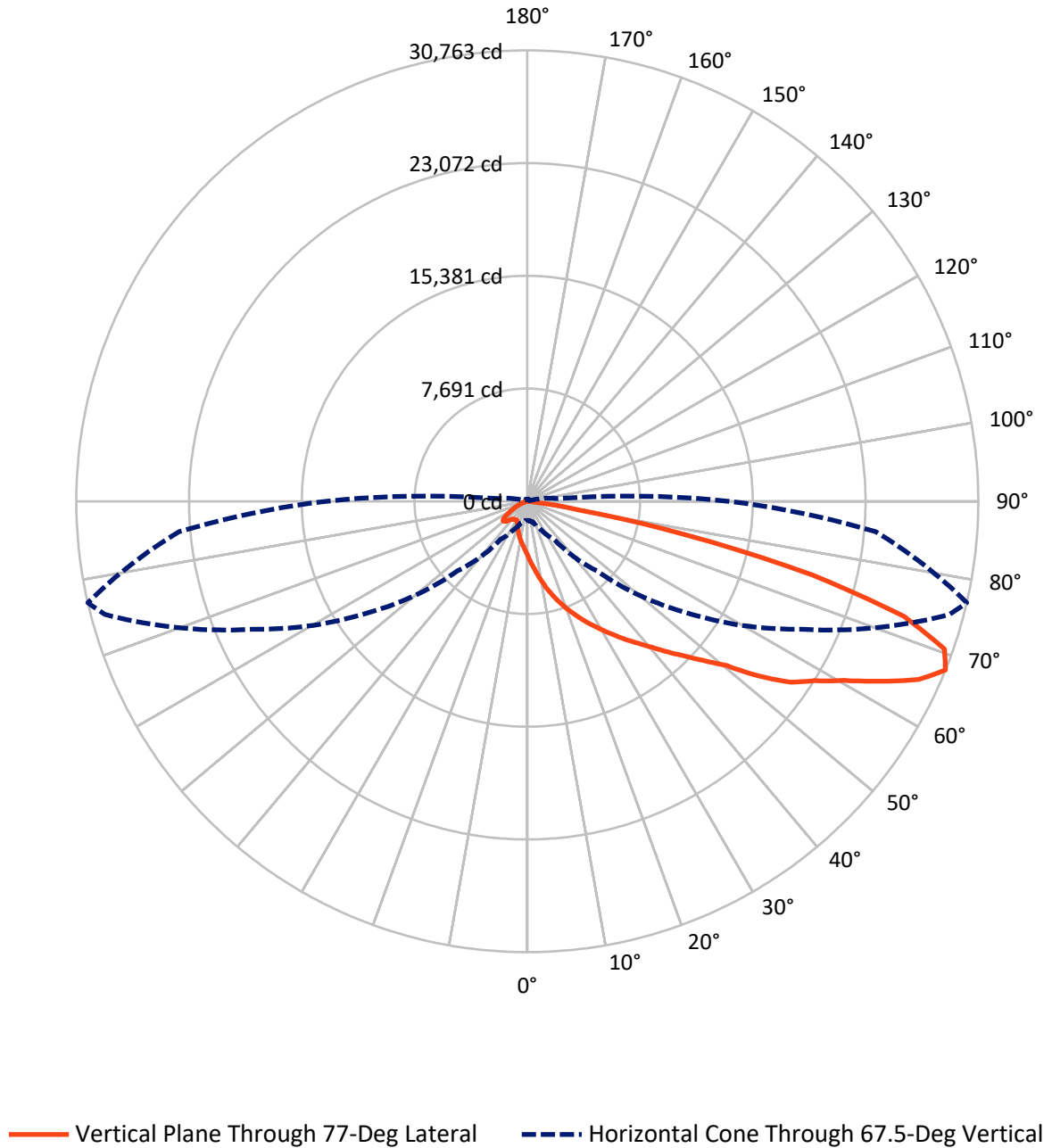
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P956456
CATALOG NUMBER: GALN-SB9A-835-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2360.7	0.0	2360.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	29726.4	0.0	29726.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	32087.0	0.0	32087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	1.2
10°-20°	1322.5	4.1
20°-30°	2552.1	8.0
30°-40°	4430.5	13.8
40°-50°	6432.9	20.0
50°-60°	7387.4	23.0
60°-70°	6413.6	20.0
70°-80°	3020.9	9.4
80°-90°	149.4	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°	32087.0	100.0
0°-180°	32087.0	100.0

Coefficient of Utilization



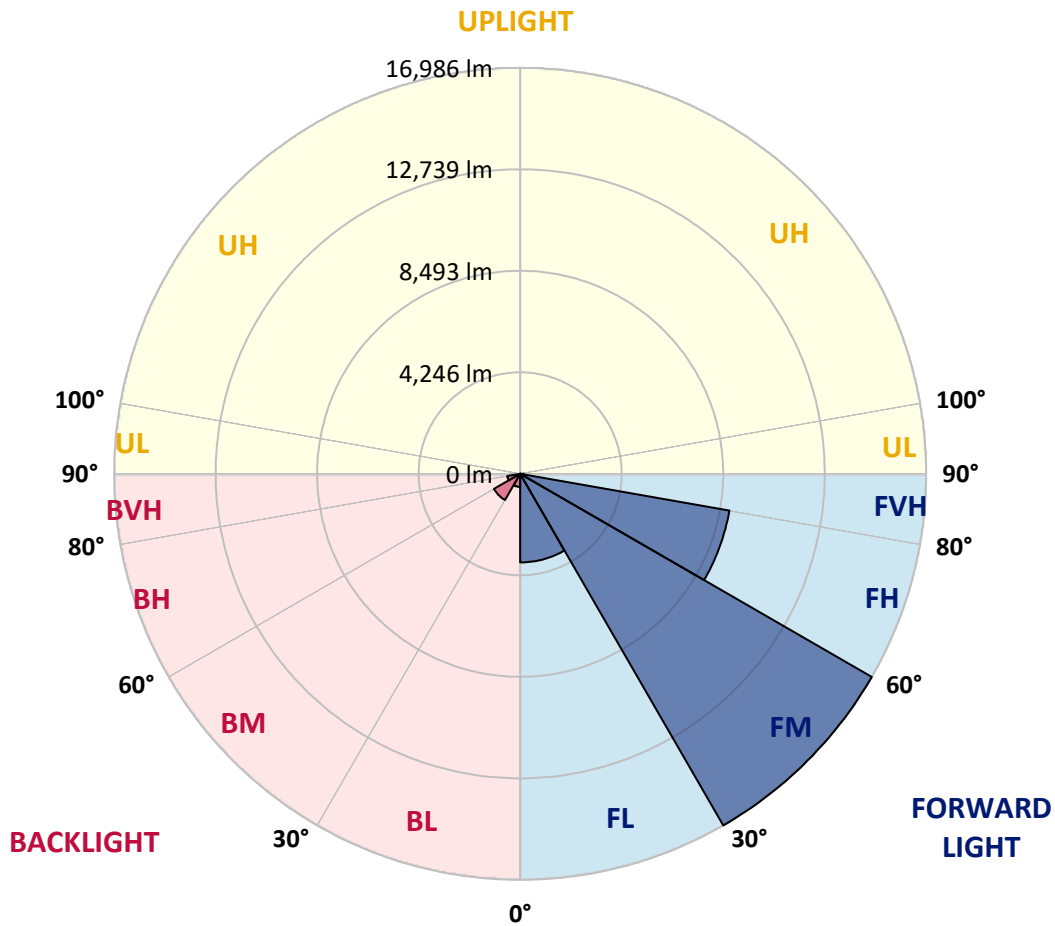
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3705.7	11.5			
FM (30°-60°)	16986.0	52.9			
FH (60°-80°)	8888.0	27.7			G4/12000
FVH (80°-90°)	146.6	0.5			G2/225
BL (0°-30°)	546.5	1.7	B2/1000		
BM (30°-60°)	1264.9	3.9	B2/2500		
BH (60°-80°)	546.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	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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CATALOG NUMBER: GALN-SB9A-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1
2.5°	5122.8	5154.6	5108.8	5021.1	4889.6	4804.0	4594.7	4397.5	4178.3	4108.6
5°	6244.5	6272.4	6220.6	6125.0	5949.7	5782.3	5507.3	5094.9	4666.5	4529.0
7.5°	7075.4	7091.4	7071.4	6983.8	6816.4	6627.1	6320.3	5832.1	5196.5	5045.1
10°	7673.2	7725.0	7719.0	7685.1	7573.6	7420.1	7093.4	6537.4	5790.3	5595.0
12.5°	8069.7	8127.5	8161.3	8237.1	8231.1	8133.5	7846.5	7258.7	6382.0	6152.9
15°	8185.3	8247.0	8376.5	8551.9	8707.3	8757.1	8555.9	7966.1	7033.6	6740.7
17.5°	8119.5	8215.1	8370.6	8647.5	8988.2	9213.4	9191.5	8649.5	7625.4	7290.6
20°	8265.0	8356.6	8478.2	8711.3	9107.8	9516.3	9679.6	9303.1	8213.2	7862.5
22.5°	9069.9	9054.0	9065.9	9103.8	9340.9	9745.4	10082.1	9896.8	8795.0	8436.3
25°	10345.1	10273.4	10151.9	9946.6	9886.9	10082.1	10432.8	10422.9	9408.7	9024.1
27.5°	11807.7	11795.7	11510.8	11016.6	10737.7	10662.0	10829.3	10934.9	10016.4	9605.9
30°	13208.4	13240.3	12855.7	12305.8	11793.7	11496.8	11345.4	11421.1	10634.1	10233.6
32.5°	14427.8	14461.7	14043.3	13399.7	12766.1	12407.4	12088.6	11901.3	11307.5	10871.2
35°	15457.9	15491.8	15011.6	14300.3	13624.8	13300.0	12939.4	12427.3	11985.0	11578.5
37.5°	16378.5	16368.5	15724.9	15007.6	14344.1	14087.1	13897.8	13074.9	12682.4	12289.8
40°	16922.4	16964.3	16414.3	15623.3	14979.7	14792.4	14780.5	13877.9	13487.3	13106.8
42.5°	17081.8	17155.6	16757.1	16107.5	15523.7	15320.5	15633.3	14746.6	14423.8	14053.2
45°	16794.9	16866.7	16685.3	16235.0	15894.3	15762.8	16366.5	15647.2	15424.1	15057.4
47.5°	15958.1	16047.7	16091.6	15995.9	15991.9	16125.4	17024.1	16595.7	16611.6	16237.0
50°	14338.1	14489.6	14892.1	15230.8	15754.8	16412.4	17663.7	17623.8	17950.6	17627.8
52.5°	11393.2	11608.4	12995.2	13921.7	15099.3	16358.6	18367.0	19273.6	20299.8	19827.5
55°	9155.6	9155.6	10283.4	12016.9	13820.1	16003.9	18673.9	20345.6	21899.7	21788.2
57.5°	7464.0	7553.6	8272.9	9805.2	11969.0	15159.1	18863.2	21019.1	23188.9	23107.2
60°	4606.7	4800.0	6158.9	7671.2	9863.0	13654.7	18743.6	21700.5	24753.0	24818.8
62.5°	2594.3	2666.0	3271.7	5519.3	7669.2	11632.3	17829.0	22081.1	26753.5	27032.5
65°	1791.3	1827.1	2060.3	3435.1	5316.0	9261.2	16041.7	21844.0	28758.0	29321.9
67.5°	1301.1	1319.0	1464.5	2098.1	3154.2	6714.8	13240.3	20648.4	29820.0	30762.5
70°	1000.2	1012.2	1117.8	1378.8	1863.0	4144.4	9615.9	18271.4	29050.9	30176.7
72.5°	812.9	824.9	906.6	1020.2	1235.4	2450.8	5828.1	14838.3	25655.6	26871.1
75°	685.4	701.4	775.1	848.8	968.4	1574.1	2733.7	10333.2	19293.5	20090.5
77.5°	380.6	350.7	629.6	703.4	816.9	996.3	1279.2	6081.2	10805.4	11026.6
80°	237.1	245.1	500.1	565.9	627.6	502.1	585.8	2341.2	3745.9	3558.6
82.5°	13.9	31.9	384.6	408.5	430.4	215.2	221.2	795.0	902.6	828.9
85°	0.0	0.0	175.3	141.5	149.4	61.8	63.8	185.3	121.5	131.5
87.5°	0.0	0.0	0.0	4.0	0.0	6.0	12.0	15.9	6.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956456
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3700.1	0°	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1	3700.1
3889.4	2.5°	3749.9	3610.4	3327.5	3050.5	2825.4	2616.2	2466.7	2325.3	2253.5	2249.6
4140.4	5°	3863.5	3570.6	3004.7	2504.6	2102.1	1779.3	1570.1	1420.7	1344.9	1319.0
4449.3	7.5°	4022.9	3582.5	2721.8	2026.4	1552.2	1275.2	1155.7	1107.8	1091.9	1074.0
4798.0	10°	4224.1	3610.4	2468.7	1631.9	1223.4	1083.9	1036.1	1016.2	1004.2	992.3
5190.5	12.5°	4449.3	3636.3	2217.7	1354.9	1076.0	1004.2	970.4	946.4	930.5	916.6
5593.0	15°	4668.5	3652.3	1956.7	1161.6	1000.2	942.5	906.6	880.7	858.8	842.8
5987.5	17.5°	4885.6	3674.2	1711.6	1046.1	938.5	880.7	844.8	812.9	795.0	777.1
6402.0	20°	5126.7	3670.2	1480.4	964.4	876.7	818.9	781.1	751.2	733.2	713.3
6840.3	22.5°	5349.9	3650.3	1277.2	894.6	812.9	757.2	715.3	685.4	667.5	651.6
7288.6	25°	5606.9	3634.3	1107.8	830.9	753.2	697.4	651.6	623.7	603.7	589.8
7738.9	27.5°	5854.0	3610.4	984.3	773.1	695.4	641.6	597.8	565.9	547.9	538.0
8203.2	30°	6097.1	3604.5	938.5	717.3	643.6	589.8	545.9	516.1	502.1	498.1
8713.3	32.5°	6390.0	3620.4	958.4	697.4	595.8	542.0	500.1	478.2	464.3	464.3
9281.1	35°	6702.8	3616.4	988.3	715.3	563.9	494.1	462.3	448.3	434.4	434.4
9910.8	37.5°	7095.4	3622.4	1012.2	745.2	551.9	454.3	436.4	418.4	410.5	410.5
10600.2	40°	7681.2	3819.7	1000.2	771.1	547.9	426.4	390.5	384.6	378.6	378.6
11379.3	42.5°	8398.5	4248.0	1016.2	773.1	545.9	406.5	358.7	370.6	356.7	354.7
12258.0	45°	9183.5	4716.3	1117.8	731.3	544.0	396.5	342.7	356.7	334.7	334.7
13276.1	47.5°	9962.6	5180.5	1221.4	671.5	538.0	394.5	328.8	320.8	314.8	316.8
14603.2	50°	11036.5	5559.1	1261.3	589.8	524.0	390.5	302.9	304.9	300.9	304.9
16474.1	52.5°	12206.2	5638.8	1213.4	498.1	484.2	378.6	284.9	292.9	290.9	294.9
17791.2	55°	12935.4	5553.1	1002.2	414.4	422.4	330.8	267.0	282.9	282.9	282.9
19078.3	57.5°	13688.6	5188.5	711.3	336.7	350.7	271.0	251.1	273.0	271.0	269.0
20628.5	60°	14230.6	4598.7	468.2	277.0	279.0	223.2	233.1	257.0	255.0	245.1
22226.5	62.5°	14635.0	3947.2	300.9	235.1	213.2	201.2	213.2	233.1	225.2	203.2
23581.4	65°	14589.2	3044.6	231.1	201.2	175.3	175.3	185.3	203.2	179.3	143.5
23840.5	67.5°	13738.4	2060.3	191.3	169.4	147.4	145.5	153.4	169.4	153.4	121.5
22513.4	70°	12218.1	1346.9	153.4	131.5	117.6	107.6	123.5	145.5	129.5	97.6
19166.0	72.5°	9916.8	820.9	115.6	95.6	85.7	69.7	97.6	119.6	103.6	71.7
13327.9	75°	6415.9	418.4	79.7	61.8	45.8	41.8	71.7	89.7	71.7	43.8
5913.8	77.5°	2454.8	175.3	43.8	27.9	23.9	19.9	39.9	53.8	29.9	10.0
1145.7	80°	472.2	73.7	21.9	13.9	12.0	8.0	6.0	4.0	0.0	0.0
203.2	82.5°	81.7	23.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
39.9	85°	27.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.9	87.5°	10.0	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>
3700.1
2245.6
1315.1
1070.0
988.3
912.6
840.8
775.1
711.3
649.6
587.8
538.0
496.1
464.3
434.4
410.5
378.6
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334.7
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304.9
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