

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: P949232

Luminaire Tested: **GALN-SB4A-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949232
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-SB4A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 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: 16104 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

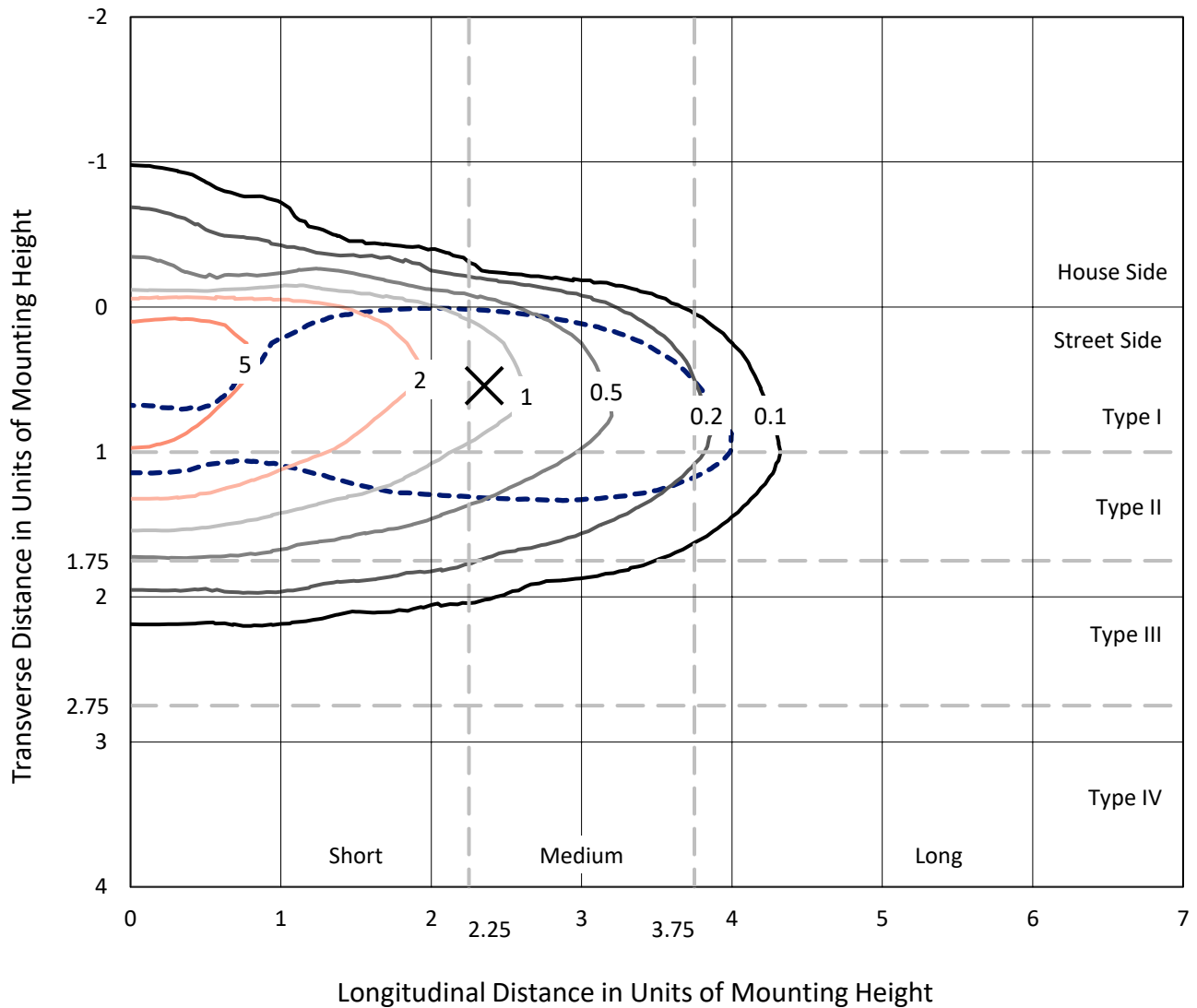
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

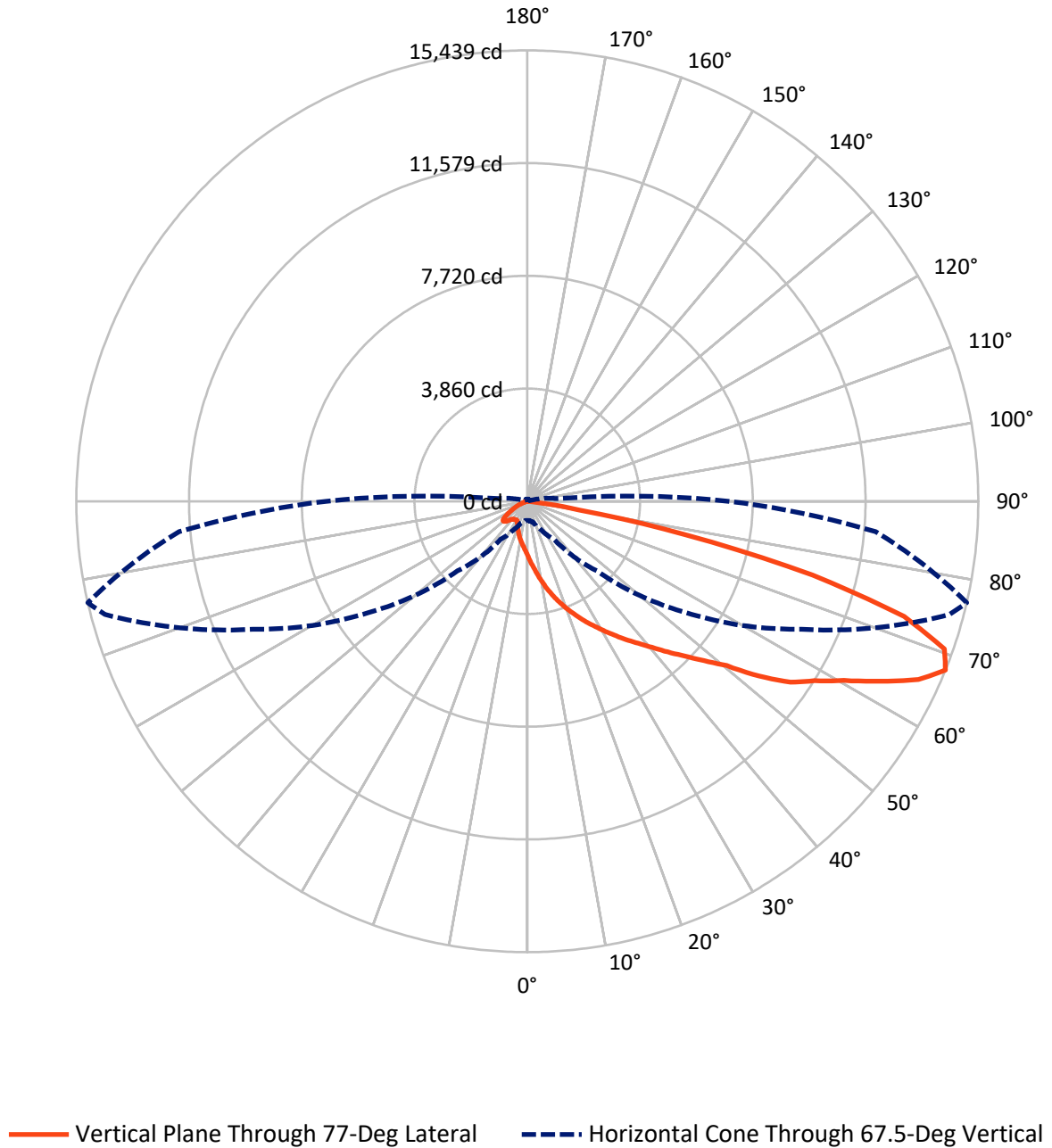
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.8	0.0	1184.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14919.2	0.0	14919.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	16104.0	0.0	16104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	1.2
10°-20°	663.7	4.1
20°-30°	1280.9	8.0
30°-40°	2223.6	13.8
40°-50°	3228.6	20.0
50°-60°	3707.6	23.0
60°-70°	3218.9	20.0
70°-80°	1516.1	9.4
80°-90°	75.0	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°	16104.0	100.0
0°-180°	16104.0	100.0

Coefficient of Utilization



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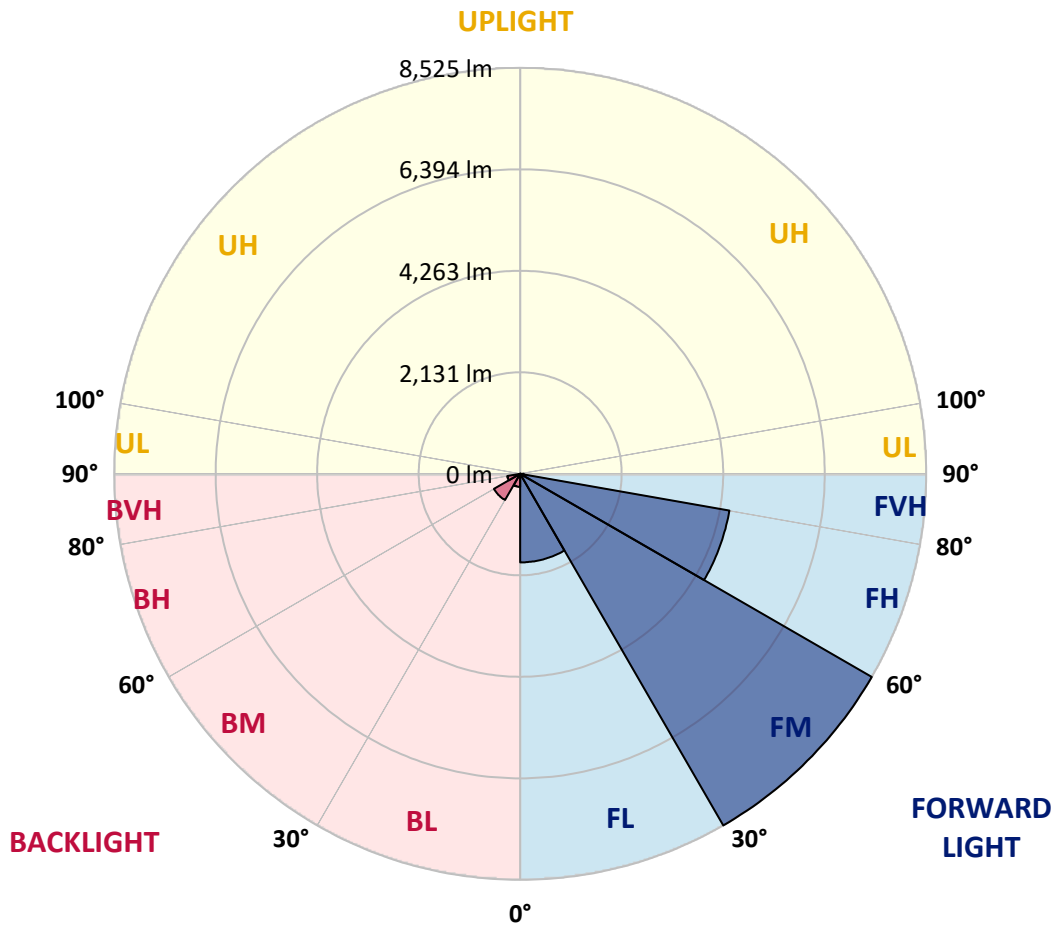
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.8	11.5			
FM (30°-60°)	8525.0	52.9			
FH (60°-80°)	4460.8	27.7			G2/5000
FVH (80°-90°)	73.6	0.5			G1/100
BL (0°-30°)	274.3	1.7	B1/500		
BM (30°-60°)	634.8	3.9	B1/1000		
BH (60°-80°)	274.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0
2.5°	2571.0	2587.0	2564.0	2520.0	2454.0	2411.0	2306.0	2207.0	2097.0	2062.0
5°	3134.0	3148.0	3122.0	3074.0	2986.0	2902.0	2764.0	2557.0	2342.0	2273.0
7.5°	3551.1	3559.1	3549.1	3505.1	3421.1	3326.1	3172.0	2927.0	2608.0	2532.0
10°	3851.1	3877.1	3874.1	3857.1	3801.1	3724.1	3560.1	3281.0	2906.0	2808.0
12.5°	4050.1	4079.1	4096.1	4134.1	4131.1	4082.1	3938.1	3643.1	3203.0	3088.0
15°	4108.1	4139.1	4204.1	4292.1	4370.1	4395.1	4294.1	3998.1	3530.1	3383.1
17.5°	4075.1	4123.1	4201.1	4340.1	4511.1	4624.1	4613.1	4341.1	3827.1	3659.1
20°	4148.1	4194.1	4255.1	4372.1	4571.1	4776.1	4858.1	4669.1	4122.1	3946.1
22.5°	4552.1	4544.1	4550.1	4569.1	4688.1	4891.1	5060.1	4967.1	4414.1	4234.1
25°	5192.1	5156.1	5095.1	4992.1	4962.1	5060.1	5236.1	5231.1	4722.1	4529.1
27.5°	5926.1	5920.1	5777.1	5529.1	5389.1	5351.1	5435.1	5488.1	5027.1	4821.1
30°	6629.1	6645.1	6452.1	6176.1	5919.1	5770.1	5694.1	5732.1	5337.1	5136.1
32.5°	7241.1	7258.1	7048.1	6725.1	6407.1	6227.1	6067.1	5973.1	5675.1	5456.1
35°	7758.1	7775.1	7534.1	7177.1	6838.1	6675.1	6494.1	6237.1	6015.1	5811.1
37.5°	8220.1	8215.1	7892.1	7532.1	7199.1	7070.1	6975.1	6562.1	6365.1	6168.1
40°	8493.1	8514.1	8238.1	7841.1	7518.1	7424.1	7418.1	6965.1	6769.1	6578.1
42.5°	8573.1	8610.1	8410.1	8084.1	7791.1	7689.1	7846.1	7401.1	7239.1	7053.1
45°	8429.1	8465.1	8374.1	8148.1	7977.1	7911.1	8214.1	7853.1	7741.1	7557.1
47.5°	8009.1	8054.1	8076.1	8028.1	8026.1	8093.1	8544.1	8329.1	8337.1	8149.1
50°	7196.1	7272.1	7474.1	7644.1	7907.1	8237.1	8865.1	8845.1	9009.1	8847.1
52.5°	5718.1	5826.1	6522.1	6987.1	7578.1	8210.1	9218.1	9673.1	10188.2	9951.1
55°	4595.1	4595.1	5161.1	6031.1	6936.1	8032.1	9372.1	10211.2	10991.2	10935.2
57.5°	3746.1	3791.1	4152.1	4921.1	6007.1	7608.1	9467.1	10549.2	11638.2	11597.2
60°	2312.0	2409.0	3091.0	3850.1	4950.1	6853.1	9407.1	10891.2	12423.2	12456.2
62.5°	1302.0	1338.0	1642.0	2770.0	3849.1	5838.1	8948.1	11082.2	13427.2	13567.2
65°	899.0	917.0	1034.0	1724.0	2668.0	4648.1	8051.1	10963.2	14433.2	14716.2
67.5°	653.0	662.0	735.0	1053.0	1583.0	3370.1	6645.1	10363.2	14966.2	15439.2
70°	502.0	508.0	561.0	692.0	935.0	2080.0	4826.1	9170.1	14580.2	15145.2
72.5°	408.0	414.0	455.0	512.0	620.0	1230.0	2925.0	7447.1	12876.2	13486.2
75°	344.0	352.0	389.0	426.0	486.0	790.0	1372.0	5186.1	9683.1	10083.2
77.5°	191.0	176.0	316.0	353.0	410.0	500.0	642.0	3052.0	5423.1	5534.1
80°	119.0	123.0	251.0	284.0	315.0	252.0	294.0	1175.0	1880.0	1786.0
82.5°	7.0	16.0	193.0	205.0	216.0	108.0	111.0	399.0	453.0	416.0
85°	0.0	0.0	88.0	71.0	75.0	31.0	32.0	93.0	61.0	66.0
87.5°	0.0	0.0	0.0	2.0	0.0	3.0	6.0	8.0	3.0	4.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1857.0	0°	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0
1952.0	2.5°	1882.0	1812.0	1670.0	1531.0	1418.0	1313.0	1238.0	1167.0	1131.0	1129.0
2078.0	5°	1939.0	1792.0	1508.0	1257.0	1055.0	893.0	788.0	713.0	675.0	662.0
2233.0	7.5°	2019.0	1798.0	1366.0	1017.0	779.0	640.0	580.0	556.0	548.0	539.0
2408.0	10°	2120.0	1812.0	1239.0	819.0	614.0	544.0	520.0	510.0	504.0	498.0
2605.0	12.5°	2233.0	1825.0	1113.0	680.0	540.0	504.0	487.0	475.0	467.0	460.0
2807.0	15°	2343.0	1833.0	982.0	583.0	502.0	473.0	455.0	442.0	431.0	423.0
3005.0	17.5°	2452.0	1844.0	859.0	525.0	471.0	442.0	424.0	408.0	399.0	390.0
3213.0	20°	2573.0	1842.0	743.0	484.0	440.0	411.0	392.0	377.0	368.0	358.0
3433.1	22.5°	2685.0	1832.0	641.0	449.0	408.0	380.0	359.0	344.0	335.0	327.0
3658.1	25°	2814.0	1824.0	556.0	417.0	378.0	350.0	327.0	313.0	303.0	296.0
3884.1	27.5°	2938.0	1812.0	494.0	388.0	349.0	322.0	300.0	284.0	275.0	270.0
4117.1	30°	3060.0	1809.0	471.0	360.0	323.0	296.0	274.0	259.0	252.0	250.0
4373.1	32.5°	3207.0	1817.0	481.0	350.0	299.0	272.0	251.0	240.0	233.0	233.0
4658.1	35°	3364.1	1815.0	496.0	359.0	283.0	248.0	232.0	225.0	218.0	218.0
4974.1	37.5°	3561.1	1818.0	508.0	374.0	277.0	228.0	219.0	210.0	206.0	206.0
5320.1	40°	3855.1	1917.0	502.0	387.0	275.0	214.0	196.0	193.0	190.0	190.0
5711.1	42.5°	4215.1	2132.0	510.0	388.0	274.0	204.0	180.0	186.0	179.0	178.0
6152.1	45°	4609.1	2367.0	561.0	367.0	273.0	199.0	172.0	179.0	168.0	168.0
6663.1	47.5°	5000.1	2600.0	613.0	337.0	270.0	198.0	165.0	161.0	158.0	159.0
7329.1	50°	5539.1	2790.0	633.0	296.0	263.0	196.0	152.0	153.0	151.0	153.0
8268.1	52.5°	6126.1	2830.0	609.0	250.0	243.0	190.0	143.0	147.0	146.0	148.0
8929.1	55°	6492.1	2787.0	503.0	208.0	212.0	166.0	134.0	142.0	142.0	142.0
9575.1	57.5°	6870.1	2604.0	357.0	169.0	176.0	136.0	126.0	137.0	136.0	135.0
10353.2	60°	7142.1	2308.0	235.0	139.0	140.0	112.0	117.0	129.0	128.0	123.0
11155.2	62.5°	7345.1	1981.0	151.0	118.0	107.0	101.0	107.0	117.0	113.0	102.0
11835.2	65°	7322.1	1528.0	116.0	101.0	88.0	88.0	93.0	102.0	90.0	72.0
11965.2	67.5°	6895.1	1034.0	96.0	85.0	74.0	73.0	77.0	85.0	77.0	61.0
11299.2	70°	6132.1	676.0	77.0	66.0	59.0	54.0	62.0	73.0	65.0	49.0
9619.1	72.5°	4977.1	412.0	58.0	48.0	43.0	35.0	49.0	60.0	52.0	36.0
6689.1	75°	3220.0	210.0	40.0	31.0	23.0	21.0	36.0	45.0	36.0	22.0
2968.0	77.5°	1232.0	88.0	22.0	14.0	12.0	10.0	20.0	27.0	15.0	5.0
575.0	80°	237.0	37.0	11.0	7.0	6.0	4.0	3.0	2.0	0.0	0.0
102.0	82.5°	41.0	12.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	85°	14.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	87.5°	5.0	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>
1857.0
1127.0
660.0
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458.0
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357.0
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