

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: P948224

Luminaire Tested: **GALN-SB3B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948224
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-SB3B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA 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: 12854 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

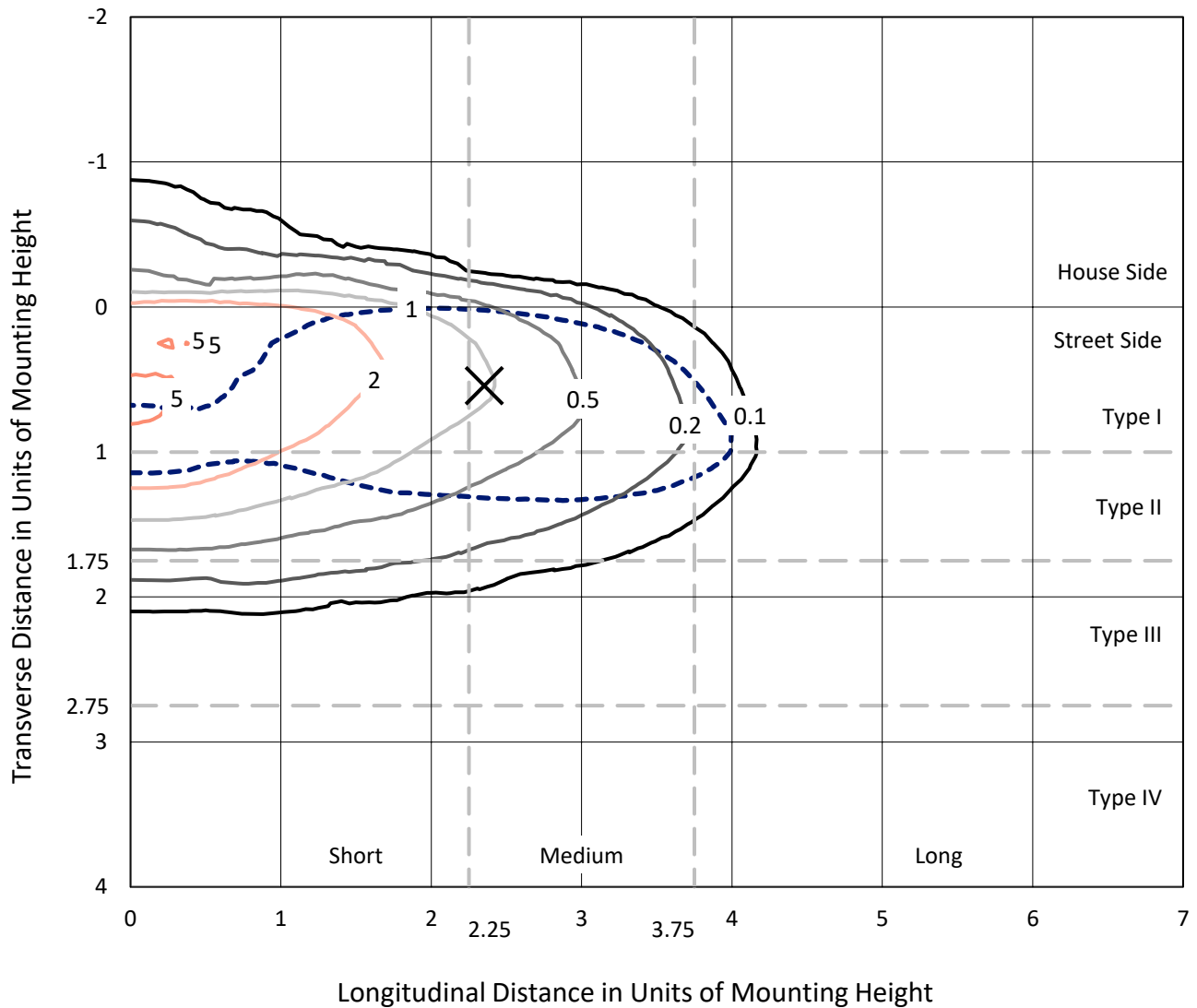
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

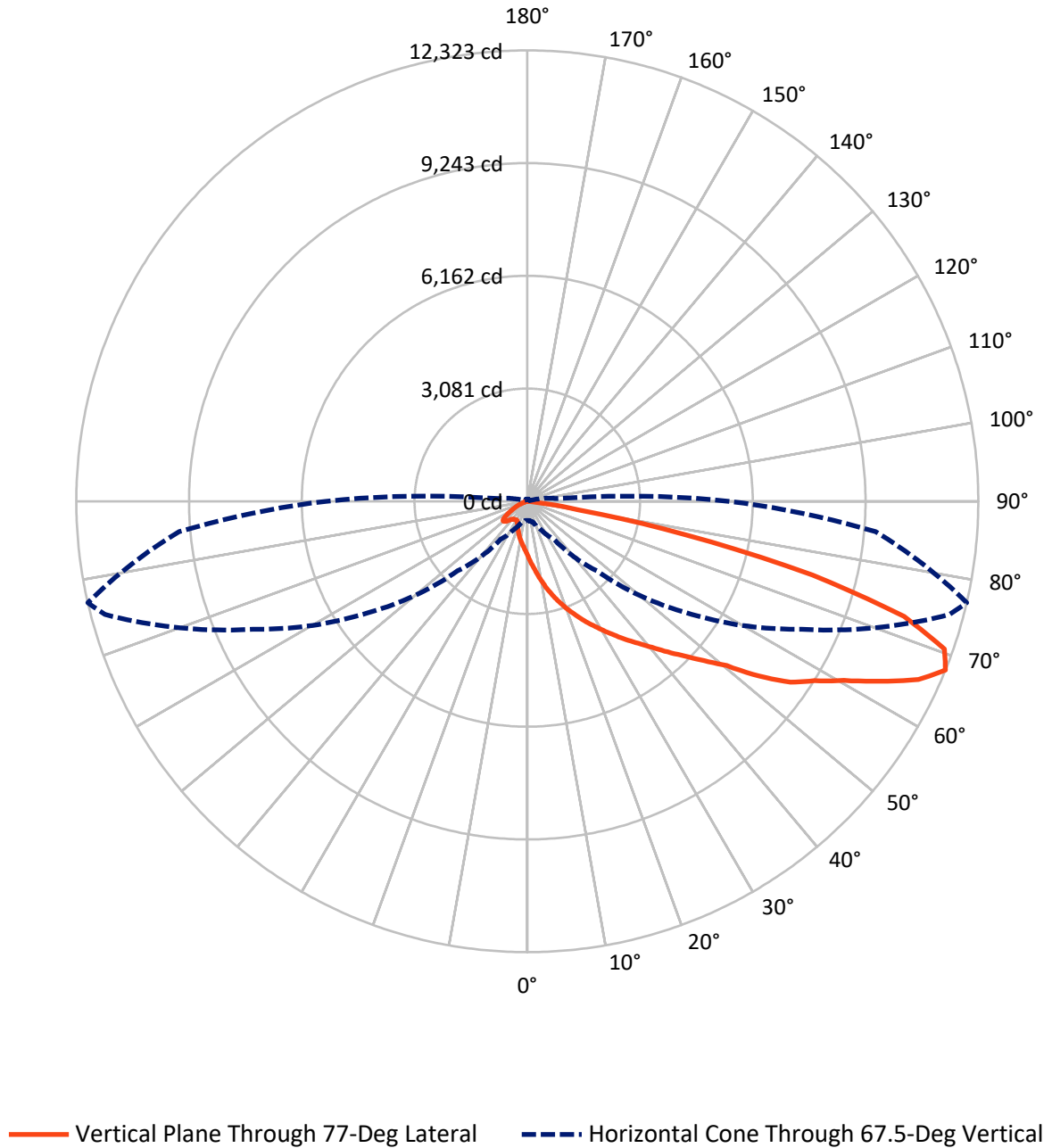
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	945.7	0.0	945.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11908.3	0.0	11908.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	12854.0	0.0	12854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	1.2
10°-20°	529.8	4.1
20°-30°	1022.4	8.0
30°-40°	1774.9	13.8
40°-50°	2577.0	20.0
50°-60°	2959.4	23.0
60°-70°	2569.3	20.0
70°-80°	1210.2	9.4
80°-90°	59.8	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°	12854.0	100.0
0°-180°	12854.0	100.0

Coefficient of Utilization



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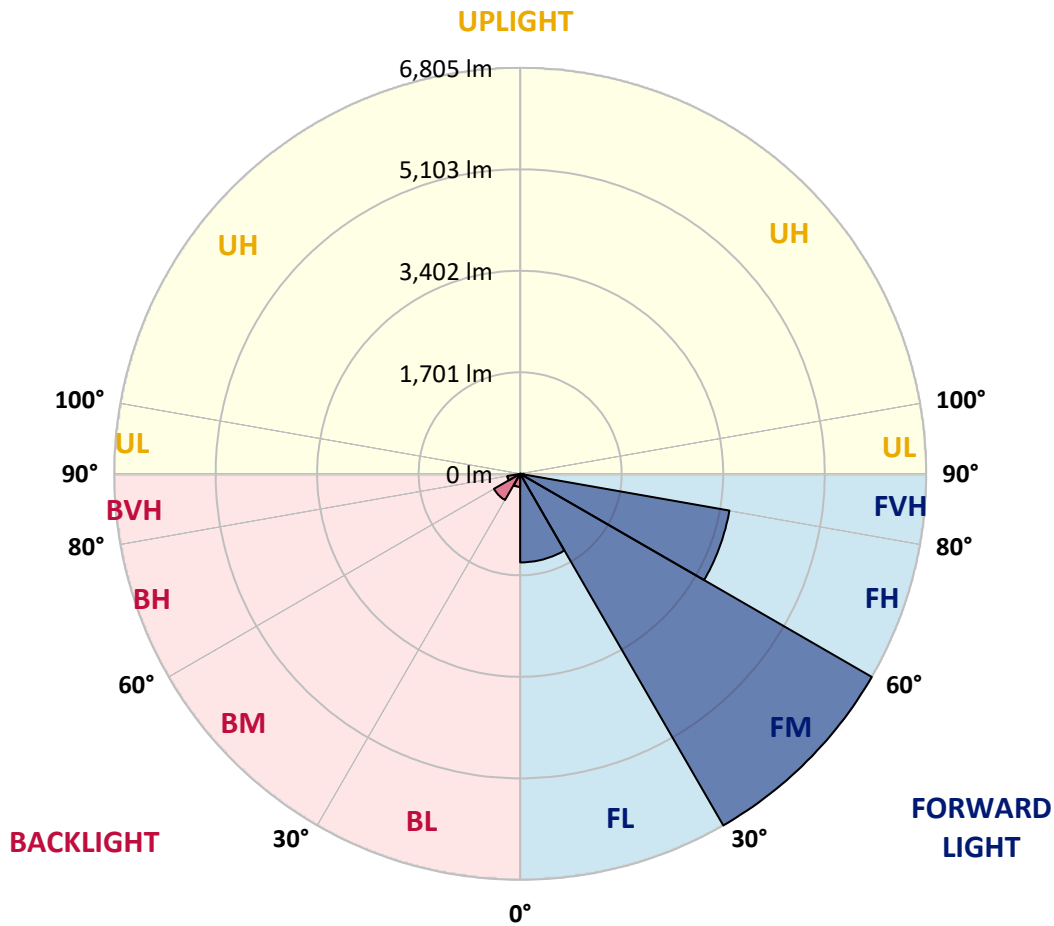
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.5	11.5			
FM (30°-60°)	6804.6	52.9			
FH (60°-80°)	3560.5	27.7			G2/5000
FVH (80°-90°)	58.7	0.5			G1/100
BL (0°-30°)	218.9	1.7	B1/500		
BM (30°-60°)	506.7	3.9	B1/1000		
BH (60°-80°)	218.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	2052.2	2064.9	2046.6	2011.5	1958.8	1924.5	1840.6	1761.6	1673.8	1645.9
5°	2501.6	2512.7	2492.0	2453.7	2383.4	2316.4	2206.2	2041.0	1869.4	1814.3
7.5°	2834.4	2840.8	2832.8	2797.7	2730.6	2654.8	2531.9	2336.3	2081.7	2021.0
10°	3073.9	3094.6	3092.2	3078.7	3034.0	2972.5	2841.6	2618.9	2319.6	2241.3
12.5°	3232.7	3255.9	3269.4	3299.8	3297.4	3258.2	3143.3	2907.8	2556.6	2464.8
15°	3279.0	3303.7	3355.6	3425.9	3488.1	3508.1	3427.5	3191.2	2817.6	2700.3
17.5°	3252.7	3291.0	3353.2	3464.2	3600.7	3690.9	3682.1	3465.0	3054.7	2920.6
20°	3310.9	3347.6	3396.3	3489.7	3648.6	3812.2	3877.6	3726.8	3290.2	3149.7
22.5°	3633.4	3627.0	3631.8	3647.0	3742.0	3904.0	4038.9	3964.7	3523.2	3379.6
25°	4144.2	4115.5	4066.8	3984.6	3960.7	4038.9	4179.4	4175.4	3769.1	3615.0
27.5°	4730.1	4725.3	4611.2	4413.2	4301.5	4271.2	4338.2	4380.5	4012.5	3848.1
30°	5291.3	5304.0	5150.0	4929.7	4724.5	4605.6	4544.9	4575.3	4260.0	4099.5
32.5°	5779.8	5793.3	5625.7	5367.9	5114.1	4970.4	4842.7	4767.6	4529.8	4355.0
35°	6192.4	6206.0	6013.6	5728.7	5458.1	5328.0	5183.5	4978.4	4801.2	4638.3
37.5°	6561.2	6557.2	6299.4	6012.0	5746.2	5643.3	5567.4	5237.8	5080.5	4923.3
40°	6779.1	6795.9	6575.6	6258.7	6000.9	5925.8	5921.0	5559.5	5403.0	5250.6
42.5°	6843.0	6872.5	6712.9	6452.6	6218.8	6137.4	6262.7	5907.5	5778.2	5629.7
45°	6728.0	6756.8	6684.1	6503.7	6367.2	6314.6	6556.4	6268.3	6178.9	6032.0
47.5°	6392.8	6428.7	6446.3	6407.9	6406.3	6459.8	6819.8	6648.2	6654.6	6504.5
50°	5743.8	5804.5	5965.7	6101.4	6311.4	6574.8	7076.0	7060.1	7191.0	7061.7
52.5°	4564.1	4650.3	5205.9	5577.0	6048.8	6553.2	7357.8	7721.0	8132.0	7942.9
55°	3667.7	3667.7	4119.5	4813.9	5536.3	6411.1	7480.7	8150.4	8773.0	8728.3
57.5°	2990.1	3026.0	3314.1	3927.9	4794.8	6072.7	7556.5	8420.2	9289.4	9256.7
60°	1845.4	1922.9	2467.2	3073.1	3951.1	5470.1	7508.7	8693.2	9916.0	9942.4
62.5°	1039.3	1068.0	1310.6	2211.0	3072.3	4659.9	7142.3	8845.6	10717.4	10829.2
65°	717.6	731.9	825.3	1376.1	2129.6	3710.0	6426.3	8750.7	11520.4	11746.3
67.5°	521.2	528.4	586.7	840.5	1263.5	2689.9	5304.0	8271.7	11945.8	12323.4
70°	400.7	405.5	447.8	552.4	746.3	1660.3	3852.1	7319.5	11637.7	12088.7
72.5°	325.7	330.5	363.2	408.7	494.9	981.8	2334.7	5944.2	10277.6	10764.5
75°	274.6	281.0	310.5	340.0	387.9	630.6	1095.1	4139.5	7729.0	8048.2
77.5°	152.5	140.5	252.2	281.8	327.3	399.1	512.4	2436.1	4328.6	4417.2
80°	95.0	98.2	200.3	226.7	251.4	201.1	234.7	937.9	1500.6	1425.6
82.5°	5.6	12.8	154.1	163.6	172.4	86.2	88.6	318.5	361.6	332.1
85°	0.0	0.0	70.2	56.7	59.9	24.7	25.5	74.2	48.7	52.7
87.5°	0.0	0.0	0.0	1.6	0.0	2.4	4.8	6.4	2.4	3.2
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°
1482.3	0°	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3	1482.3
1558.1	2.5°	1502.2	1446.3	1333.0	1222.0	1131.8	1048.0	988.2	931.5	902.8	901.2
1658.7	5°	1547.7	1430.4	1203.7	1003.3	842.1	712.8	629.0	569.1	538.8	528.4
1782.4	7.5°	1611.6	1435.2	1090.3	811.8	621.8	510.8	463.0	443.8	437.4	430.2
1922.1	10°	1692.2	1446.3	989.0	653.7	490.1	434.2	415.1	407.1	402.3	397.5
2079.3	12.5°	1782.4	1456.7	888.4	542.8	431.0	402.3	388.7	379.1	372.8	367.2
2240.5	15°	1870.2	1463.1	783.8	465.3	400.7	377.5	363.2	352.8	344.0	337.6
2398.6	17.5°	1957.2	1471.9	685.7	419.1	376.0	352.8	338.4	325.7	318.5	311.3
2564.6	20°	2053.8	1470.3	593.1	386.3	351.2	328.1	312.9	300.9	293.7	285.8
2740.2	22.5°	2143.2	1462.3	511.6	358.4	325.7	303.3	286.6	274.6	267.4	261.0
2919.8	25°	2246.1	1455.9	443.8	332.8	301.7	279.4	261.0	249.8	241.9	236.3
3100.2	27.5°	2345.1	1446.3	394.3	309.7	278.6	257.0	239.5	226.7	219.5	215.5
3286.2	30°	2442.5	1443.9	376.0	287.4	257.8	236.3	218.7	206.7	201.1	199.5
3490.5	32.5°	2559.8	1450.3	383.9	279.4	238.7	217.1	200.3	191.6	186.0	186.0
3718.0	35°	2685.1	1448.7	395.9	286.6	225.9	198.0	185.2	179.6	174.0	174.0
3970.2	37.5°	2842.4	1451.1	405.5	298.5	221.1	182.0	174.8	167.6	164.4	164.4
4246.4	40°	3077.1	1530.1	400.7	308.9	219.5	170.8	156.4	154.1	151.7	151.7
4558.5	42.5°	3364.4	1701.8	407.1	309.7	218.7	162.8	143.7	148.5	142.9	142.1
4910.5	45°	3678.9	1889.3	447.8	292.9	217.9	158.8	137.3	142.9	134.1	134.1
5318.4	47.5°	3991.0	2075.3	489.3	269.0	215.5	158.0	131.7	128.5	126.1	126.9
5850.0	50°	4421.2	2227.0	505.3	236.3	209.9	156.4	121.3	122.1	120.5	122.1
6599.5	52.5°	4889.8	2258.9	486.1	199.5	194.0	151.7	114.1	117.3	116.5	118.1
7127.1	55°	5181.9	2224.6	401.5	166.0	169.2	132.5	107.0	113.3	113.3	113.3
7642.8	57.5°	5483.6	2078.5	285.0	134.9	140.5	108.6	100.6	109.4	108.6	107.8
8263.8	60°	5700.7	1842.2	187.6	110.9	111.7	89.4	93.4	103.0	102.2	98.2
8903.9	62.5°	5862.8	1581.2	120.5	94.2	85.4	80.6	85.4	93.4	90.2	81.4
9446.7	65°	5844.4	1219.6	92.6	80.6	70.2	70.2	74.2	81.4	71.8	57.5
9550.4	67.5°	5503.6	825.3	76.6	67.8	59.1	58.3	61.5	67.8	61.5	48.7
9018.8	70°	4894.6	539.6	61.5	52.7	47.1	43.1	49.5	58.3	51.9	39.1
7677.9	72.5°	3972.6	328.9	46.3	38.3	34.3	27.9	39.1	47.9	41.5	28.7
5339.2	75°	2570.2	167.6	31.9	24.7	18.4	16.8	28.7	35.9	28.7	17.6
2369.1	77.5°	983.4	70.2	17.6	11.2	9.6	8.0	16.0	21.6	12.0	4.0
459.0	80°	189.2	29.5	8.8	5.6	4.8	3.2	2.4	1.6	0.0	0.0
81.4	82.5°	32.7	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
16.0	85°	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.6	87.5°	4.0	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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180°
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1482.3
899.6
526.8
428.6
395.9
365.6
336.8
310.5
285.0
260.2
235.5
215.5
198.8
186.0
174.0
164.4
151.7
141.3
134.1
126.9
122.1
118.1
113.3
107.8
98.2
79.8
55.9
47.1
37.5
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