

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: P953585

Luminaire Tested: **GALN-SB7A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953585
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-SB7A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 22080 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

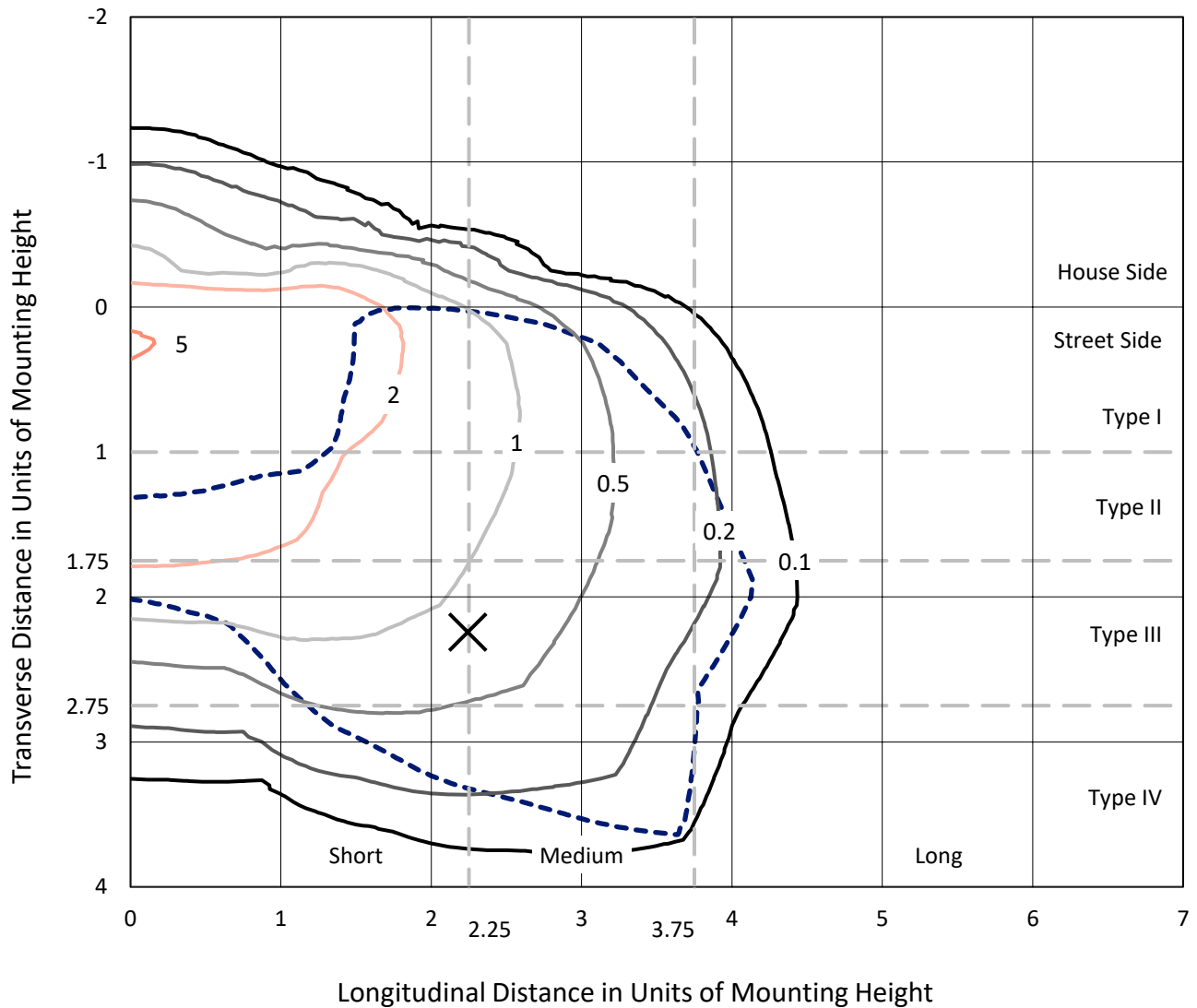
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

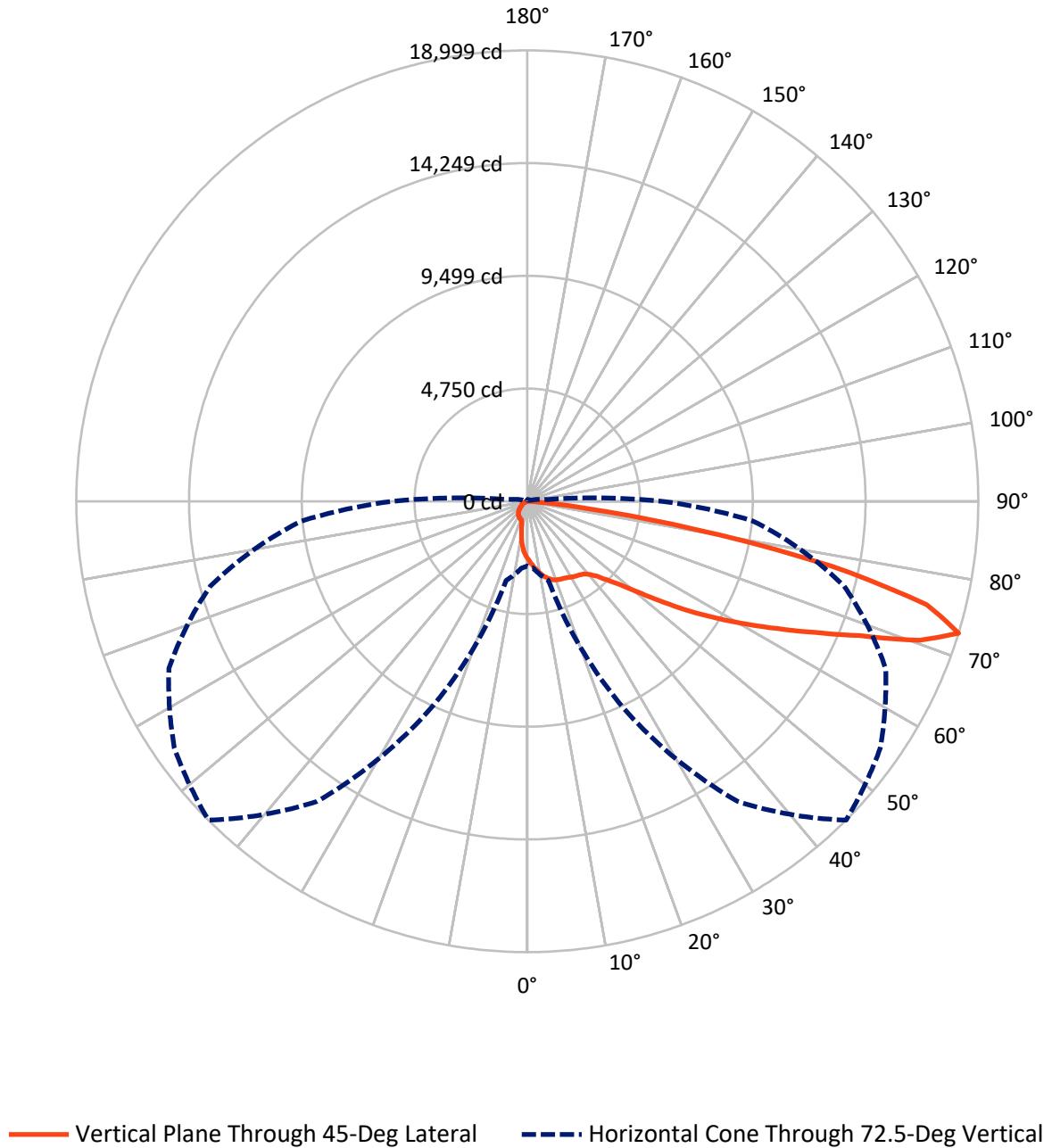
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.0	0.0	2320.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19760.0	0.0	19760.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	22080.0	0.0	22080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	1.0
10°-20°	666.1	3.0
20°-30°	1093.8	5.0
30°-40°	1551.3	7.0
40°-50°	2564.1	11.6
50°-60°	4606.1	20.9
60°-70°	6395.9	29.0
70°-80°	4639.4	21.0
80°-90°	335.4	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°	22080.0	100.0
0°-180°	22080.0	100.0

Coefficient of Utilization



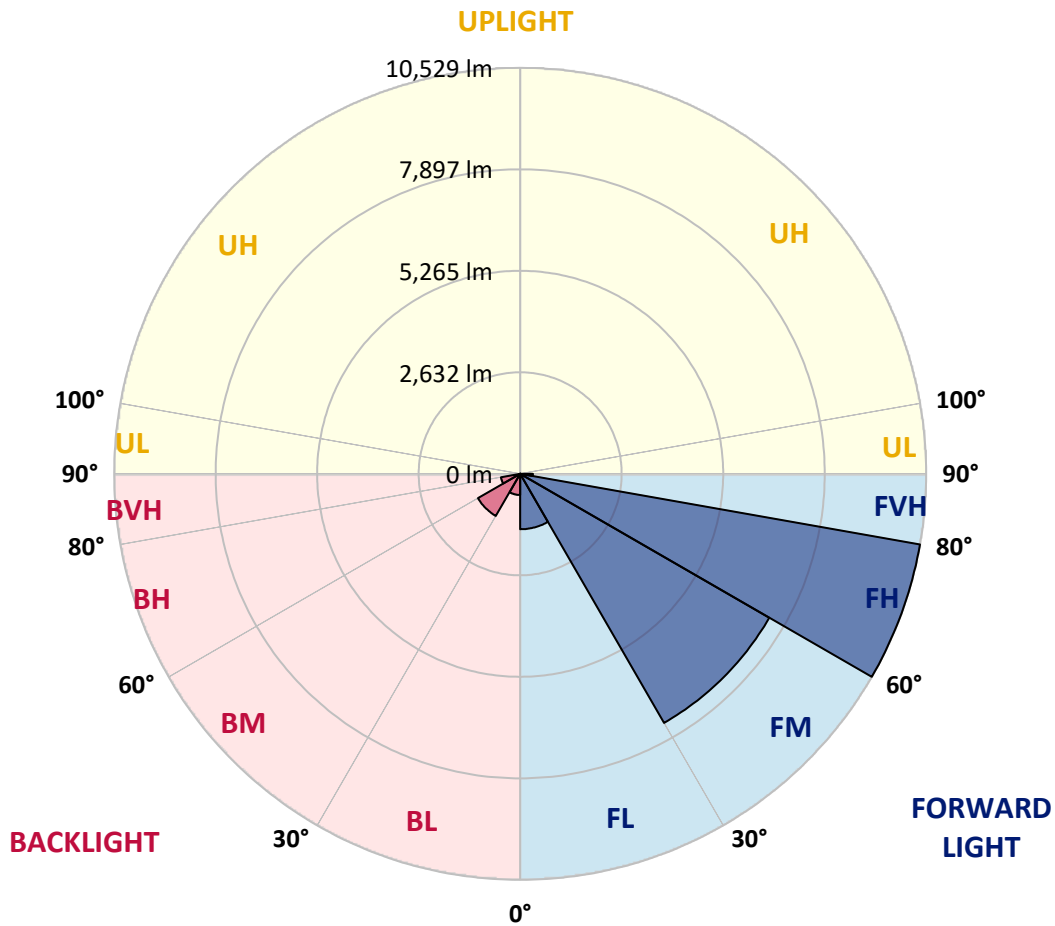
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.3	6.5			
FM (30°-60°)	7459.8	33.8			
FH (60°-80°)	10529.3	47.7			G4/12000
FVH (80°-90°)	332.6	1.5			G3/500
BL (0°-30°)	549.5	2.5	B2/1000		
BM (30°-60°)	1261.7	5.7	B2/2500		
BH (60°-80°)	505.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9
2.5°	2642.0	2646.5	2643.5	2625.4	2595.2	2578.7	2569.6	2539.5	2519.9	2485.2
5°	2884.6	2902.7	2892.1	2856.0	2798.7	2758.0	2746.0	2684.2	2628.4	2563.6
7.5°	3142.3	3151.4	3131.8	3085.1	3008.2	2938.9	2928.3	2842.4	2753.5	2654.0
10°	3365.4	3375.9	3345.8	3278.0	3190.6	3104.6	3089.6	2994.6	2889.1	2767.1
12.5°	3552.3	3562.8	3523.6	3442.2	3345.8	3256.9	3241.8	3142.3	3026.3	2890.6
15°	3693.9	3713.5	3660.8	3573.4	3469.4	3380.4	3372.9	3274.9	3161.9	3011.2
17.5°	3776.8	3796.4	3746.7	3641.2	3552.3	3476.9	3467.9	3386.5	3281.0	3136.3
20°	3790.4	3808.5	3755.7	3663.8	3589.9	3529.7	3525.1	3466.4	3389.5	3250.8
22.5°	3749.7	3772.3	3724.1	3650.2	3599.0	3567.3	3561.3	3528.1	3484.4	3366.9
25°	3707.5	3725.6	3689.4	3624.6	3597.5	3594.5	3599.0	3592.9	3583.9	3484.4
27.5°	3704.5	3724.1	3683.4	3621.6	3606.5	3638.2	3642.7	3671.3	3678.9	3591.4
30°	3730.1	3743.7	3704.5	3639.7	3632.1	3704.5	3706.0	3757.2	3769.3	3681.9
32.5°	3785.9	3800.9	3761.7	3666.8	3656.2	3757.2	3761.7	3829.6	3849.2	3778.3
35°	3917.0	3935.1	3889.8	3742.2	3704.5	3807.0	3820.5	3900.4	3939.6	3880.8
37.5°	4244.0	4191.3	4129.5	3894.4	3814.5	3885.3	3907.9	4001.4	4070.7	4002.9
40°	5056.4	4890.6	4697.7	4153.6	4007.4	4052.6	4070.7	4164.1	4259.1	4192.8
42.5°	6275.6	6079.7	5769.2	4750.4	4298.3	4320.9	4334.4	4415.8	4550.0	4497.2
45°	7362.2	7291.4	6974.9	5769.2	4842.3	4730.8	4747.4	4789.6	4987.0	4967.4
47.5°	8197.2	8156.5	7912.3	6938.7	5761.7	5232.7	5279.4	5299.0	5583.8	5653.2
50°	8839.2	8824.1	8605.6	7978.6	6962.8	5972.7	5989.3	5947.1	6373.6	6545.4
52.5°	9445.1	9496.3	9335.0	8944.7	8245.4	6941.7	6938.7	6739.8	7315.5	7574.7
55°	9992.1	10010.2	10026.8	9930.3	9535.5	8045.0	8016.3	7690.8	8408.2	8676.4
57.5°	10506.1	10513.6	10661.3	10858.7	10878.3	9229.5	9176.8	8786.4	9601.8	9793.2
60°	10851.2	10885.9	11197.8	11746.4	11986.0	10451.8	10423.2	10025.3	10816.5	10905.4
62.5°	10353.8	10564.8	11351.5	12439.7	13032.0	11806.7	11793.1	11419.4	12094.6	12022.2
65°	8381.0	8738.2	10121.7	12908.4	14058.3	13319.8	13339.4	12941.6	13407.2	13172.1
67.5°	5862.7	6239.4	7876.2	12946.1	15205.2	15096.7	15209.8	14585.8	14801.3	14273.8
70°	4054.1	4248.5	5314.1	12135.2	16098.9	17544.3	17541.2	16605.3	16187.9	14775.7
72.5°	2726.4	2827.3	3451.3	9627.4	15441.8	18998.6	18911.2	18148.6	16655.1	13818.7
75°	1149.9	1223.8	1597.5	5410.5	12216.6	17381.5	17144.9	16038.7	14798.3	10881.3
77.5°	364.7	396.4	630.0	1936.6	6729.2	13065.1	12815.0	10016.3	9918.3	5458.8
80°	173.3	202.0	354.2	777.7	2648.0	7106.0	7071.4	4543.9	4266.6	1474.0
82.5°	75.4	88.9	195.9	416.0	1184.6	2535.0	2586.2	1546.3	1279.5	559.1
85°	24.1	31.6	90.4	191.4	500.4	630.0	622.4	367.7	515.4	304.4
87.5°	0.0	0.0	30.1	43.7	51.2	36.2	40.7	31.6	143.2	84.4
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°
2418.9	0°	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9	2418.9
2449.1	2.5°	2431.0	2406.9	2364.7	2325.5	2290.8	2256.1	2235.0	2204.9	2201.9	2201.9
2488.2	5°	2447.5	2408.4	2333.0	2253.1	2161.2	2073.8	1986.4	1902.0	1874.8	1855.3
2551.5	7.5°	2495.8	2434.0	2314.9	2162.7	1987.9	1796.5	1662.3	1517.7	1461.9	1431.8
2635.9	10°	2565.1	2480.7	2299.8	2033.1	1749.8	1489.0	1297.6	1140.9	1080.6	1055.0
2727.9	12.5°	2642.0	2538.0	2272.7	1871.8	1489.0	1177.1	990.2	917.8	908.8	908.8
2837.9	15°	2733.9	2607.3	2226.0	1681.9	1216.2	931.4	865.1	868.1	877.1	883.2
2944.9	17.5°	2828.8	2681.1	2152.2	1469.4	975.1	838.0	839.5	844.0	851.5	857.5
3060.9	20°	2931.3	2755.0	2054.2	1243.4	836.4	810.8	815.3	819.9	825.9	828.9
3169.5	22.5°	3041.3	2824.3	1938.1	1021.8	789.7	788.2	789.7	794.2	801.8	801.8
3296.0	25°	3158.9	2901.2	1805.5	860.6	765.6	765.6	768.6	771.6	777.7	777.7
3418.1	27.5°	3279.5	2972.0	1665.4	776.2	744.5	743.0	743.0	747.5	750.5	752.0
3538.7	30°	3412.1	3054.9	1525.2	758.1	727.9	720.4	715.9	718.9	721.9	723.4
3665.3	32.5°	3547.7	3134.8	1400.1	765.6	711.4	697.8	682.7	679.7	679.7	685.7
3796.4	35°	3698.4	3222.2	1303.6	791.2	702.3	664.6	640.5	627.0	628.5	637.5
3953.1	37.5°	3879.3	3327.7	1232.8	813.8	696.3	627.0	587.8	571.2	560.6	571.2
4168.7	40°	4115.9	3482.9	1181.6	831.9	688.7	583.3	530.5	503.4	483.8	489.8
4503.2	42.5°	4464.1	3727.1	1162.0	833.4	672.2	532.0	471.7	435.6	406.9	408.4
5006.6	45°	4952.4	4112.9	1263.0	813.8	636.0	476.2	409.9	361.7	343.6	339.1
5758.7	47.5°	5621.5	4675.1	1496.6	773.1	583.3	422.0	349.6	309.0	295.4	287.9
6745.8	50°	6518.2	5397.0	1755.8	727.9	530.5	370.7	299.9	274.3	265.3	257.7
7916.8	52.5°	7558.2	6129.4	1968.3	682.7	477.8	325.5	268.3	253.2	245.7	239.6
9047.2	55°	8512.2	6634.3	1956.2	634.5	426.5	289.4	245.7	236.6	227.6	221.5
10020.8	57.5°	9106.0	6705.1	1612.6	581.7	367.7	260.7	224.6	218.5	208.0	200.4
10863.2	60°	9378.7	6301.2	1130.3	512.4	309.0	233.6	202.0	198.9	185.4	174.8
11660.5	62.5°	9428.5	5550.7	753.6	426.5	257.7	208.0	179.3	174.8	156.7	138.7
12308.6	65°	9226.5	4477.6	521.5	333.1	220.0	180.9	153.7	144.7	125.1	107.0
12462.3	67.5°	8587.5	3143.8	363.2	239.6	186.9	143.2	122.1	119.1	104.0	88.9
11678.6	70°	7416.5	1792.0	242.6	179.3	147.7	98.0	96.5	99.5	84.4	72.3
9541.5	72.5°	5686.3	819.9	150.7	131.1	101.0	66.3	76.9	78.4	64.8	54.3
5953.1	75°	3347.3	351.2	94.9	84.4	51.2	43.7	55.8	57.3	43.7	34.7
2176.3	77.5°	1139.4	132.6	60.3	49.7	25.6	24.1	36.2	36.2	24.1	13.6
437.1	80°	259.2	49.7	30.1	19.6	12.1	10.5	12.1	10.5	6.0	1.5
134.1	82.5°	73.8	19.6	12.1	7.5	4.5	4.5	1.5	0.0	0.0	0.0
46.7	85°	21.1	9.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
16.6	87.5°	9.0	1.5	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>
2418.9
2209.4
1864.3
1436.3
1055.0
908.8
883.2
857.5
830.4
804.8
779.2
753.6
726.4
690.3
642.0
568.2
486.8
402.4
333.1
283.3
256.2
238.1
218.5
198.9
171.8
129.6
101.0
84.4
66.3
48.2
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