

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: P948648

Luminaire Tested: **GALN-SB3C-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17894 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

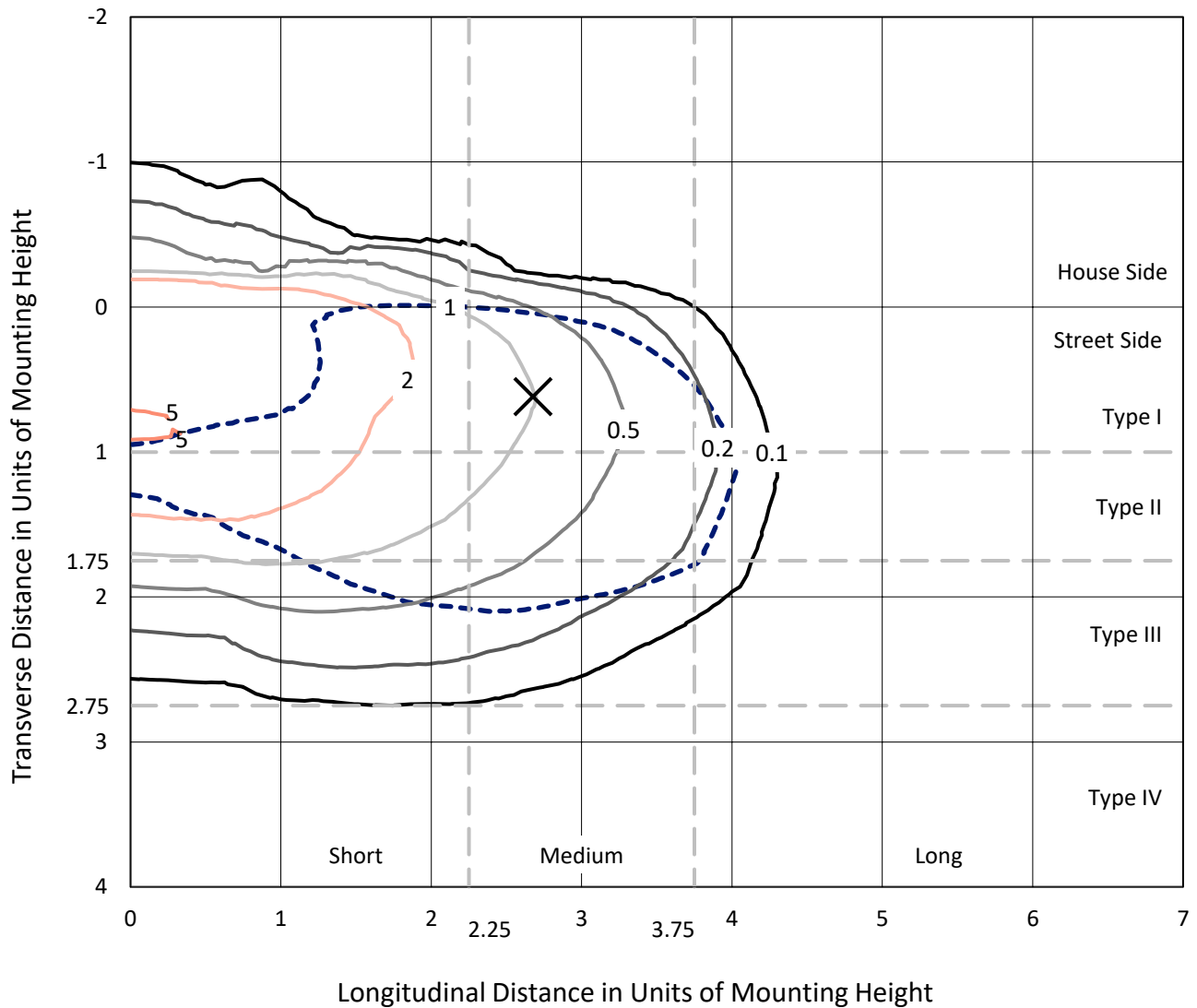
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

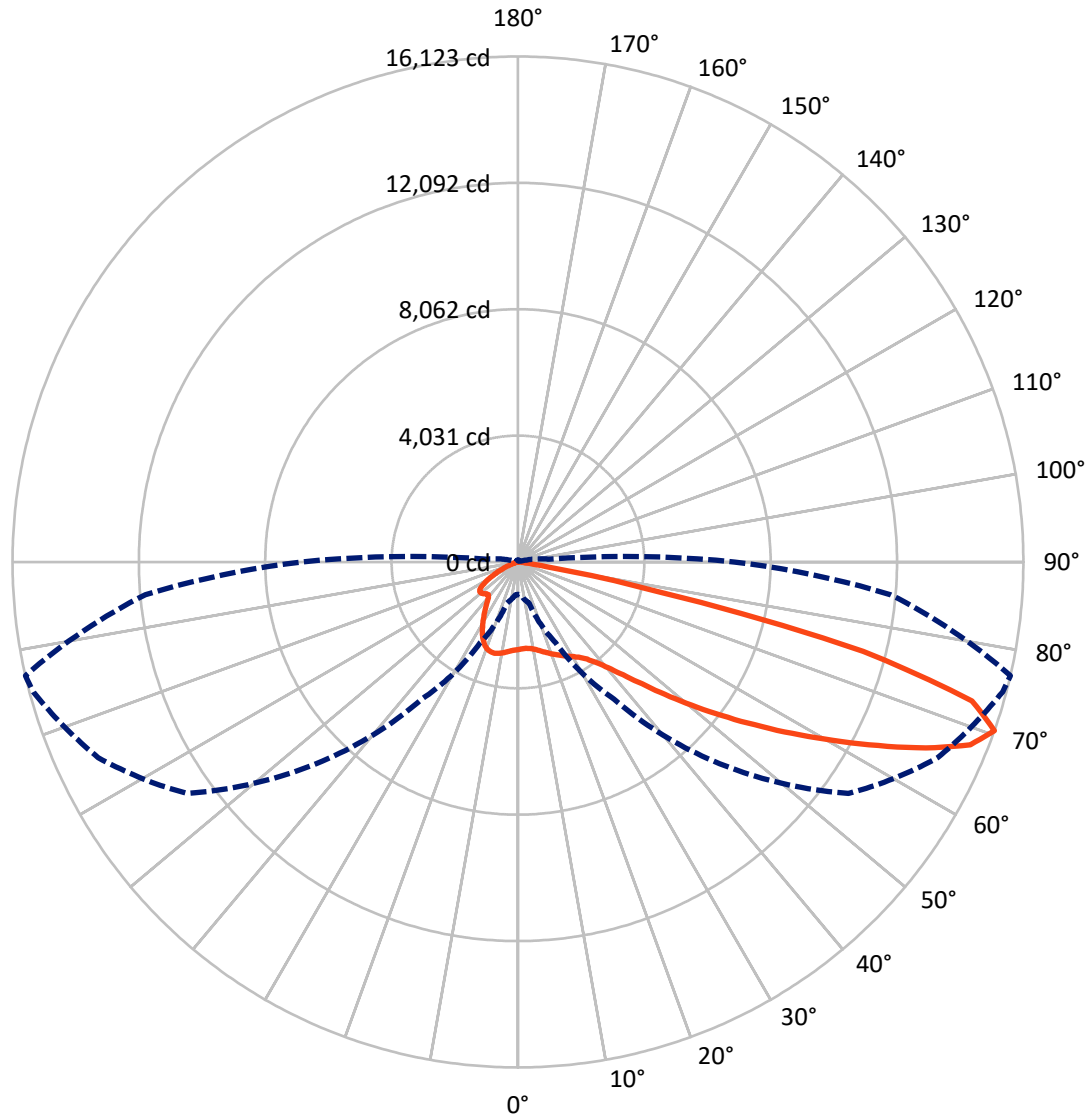
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.3	0.0	1886.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16007.7	0.0	16007.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	17894.0	0.0	17894.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	1.3
10°-20°	571.0	3.2
20°-30°	883.2	4.9
30°-40°	1602.7	9.0
40°-50°	3025.3	16.9
50°-60°	4371.3	24.4
60°-70°	4653.1	26.0
70°-80°	2465.8	13.8
80°-90°	81.0	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°	17894.0	100.0
0°-180°	17894.0	100.0



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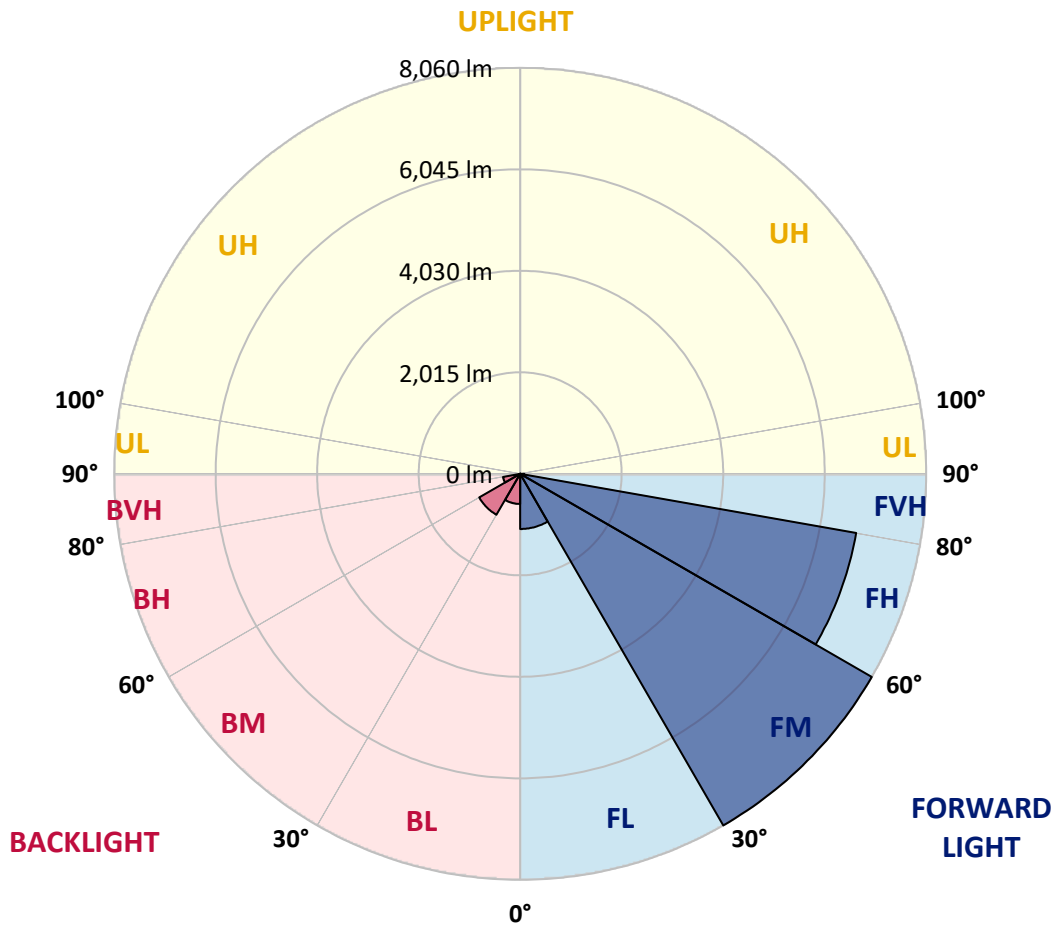
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.5	6.1			
FM (30°-60°)	8060.3	45.0			
FH (60°-80°)	6773.1	37.9			G3/7500
FVH (80°-90°)	78.8	0.4			G1/100
BL (0°-30°)	599.3	3.3	B2/1000		
BM (30°-60°)	939.0	5.2	B1/1000		
BH (60°-80°)	345.8	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1
2.5°	2620.5	2644.2	2640.8	2656.7	2662.3	2684.9	2707.5	2738.0	2771.9	2770.8
5°	2472.5	2496.2	2501.9	2523.3	2550.4	2585.5	2631.8	2692.8	2756.1	2766.3
7.5°	2297.3	2322.2	2336.9	2379.8	2429.5	2501.9	2577.6	2666.8	2771.9	2786.6
10°	2122.2	2144.8	2164.0	2225.0	2304.1	2411.5	2534.6	2663.4	2804.7	2826.2
12.5°	2013.7	2035.2	2056.6	2109.7	2208.1	2339.1	2506.4	2679.3	2858.9	2889.5
15°	1975.3	1994.5	2011.4	2058.9	2150.4	2299.6	2500.7	2712.0	2927.9	2968.6
17.5°	1980.9	1991.1	2002.4	2038.5	2127.8	2281.5	2510.9	2768.5	3009.2	3045.4
20°	2013.7	2019.3	2020.5	2045.3	2124.4	2279.2	2531.2	2822.8	3086.1	3134.7
22.5°	2055.5	2057.8	2055.5	2072.5	2145.9	2296.2	2558.4	2888.3	3172.0	3217.2
25°	2251.0	2208.1	2153.8	2121.0	2182.1	2329.0	2599.0	2976.5	3265.7	3309.8
27.5°	2857.8	2734.6	2540.3	2322.2	2256.6	2376.4	2655.5	3065.7	3360.7	3400.2
30°	3843.2	3681.6	3351.6	2860.1	2496.2	2475.9	2729.0	3155.0	3461.2	3504.2
32.5°	4830.8	4791.3	4410.5	3730.2	3035.2	2697.3	2851.0	3275.9	3594.6	3628.5
35°	5829.8	5749.5	5437.6	4765.3	3865.8	3148.2	3054.4	3434.1	3769.7	3808.2
37.5°	6594.8	6546.2	6353.0	5799.2	4851.2	3844.3	3402.5	3679.3	4024.0	4066.9
40°	7270.5	7247.9	7182.4	6817.4	5952.9	4755.1	3943.8	4059.0	4376.6	4427.4
42.5°	7801.6	7854.7	7892.0	7790.3	7088.6	5794.7	4671.5	4592.4	4868.1	4920.1
45°	8345.2	8363.3	8513.5	8660.4	8216.4	6881.8	5491.9	5217.3	5479.5	5543.9
47.5°	8694.3	8766.7	9031.1	9289.9	9164.4	7959.8	6373.3	5955.2	6188.0	6308.9
50°	8720.3	8857.1	9220.9	9671.8	9854.9	8985.9	7331.5	6795.9	7043.4	7176.7
52.5°	8287.5	8500.0	9063.9	9723.8	10227.8	9854.9	8322.6	7636.7	7954.2	8128.2
55°	6354.1	6632.1	8472.9	9441.3	10242.5	10513.7	9287.6	8512.4	8968.9	9165.6
57.5°	5536.0	5676.1	6661.4	8950.9	9970.1	10779.2	10160.0	9346.4	10073.0	10317.1
60°	4605.9	4790.1	5586.8	8148.5	9600.6	10805.2	10930.6	10422.1	11269.7	11544.2
62.5°	3130.1	3330.2	4122.3	6769.9	9095.5	10792.8	11562.3	11529.6	12599.7	12894.6
65°	1939.1	2064.5	2586.6	5528.0	8389.2	10806.3	12223.4	12874.3	14003.2	14302.6
67.5°	1532.3	1589.9	1862.3	4244.3	7172.2	10501.2	12883.3	14138.8	15324.2	15561.5
70°	1029.4	1064.5	1354.9	2845.4	5335.9	9093.2	12870.9	14773.8	16004.4	16123.1
72.5°	542.4	569.5	792.1	1317.6	3222.8	6463.7	10849.3	14014.5	15327.5	15149.0
75°	271.2	316.4	533.4	669.0	1376.4	3604.8	6737.2	11049.3	12064.1	11372.5
77.5°	205.7	248.6	440.7	440.7	479.1	1213.6	2853.3	6026.4	5558.6	4628.5
80°	131.1	169.5	385.3	333.4	200.0	308.5	743.6	1688.2	1180.9	898.4
82.5°	76.8	110.7	320.9	220.4	111.9	114.1	210.2	359.3	306.2	238.4
85°	30.5	72.3	220.4	87.0	44.1	28.3	63.3	76.8	63.3	47.5
87.5°	0.0	17.0	38.4	0.0	3.4	2.3	4.5	5.7	5.7	4.5
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°
2791.1	0°	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1	2791.1
2793.4	2.5°	2803.6	2805.8	2812.6	2813.7	2797.9	2777.6	2769.7	2766.3	2752.7	2751.6
2811.5	5°	2837.5	2847.6	2837.5	2808.1	2738.0	2639.7	2565.1	2504.1	2448.7	2431.8
2873.6	7.5°	2905.3	2915.4	2884.9	2769.7	2593.4	2397.9	2221.6	2097.3	1985.4	1943.6
2949.3	10°	3002.5	3016.0	2920.0	2687.2	2375.3	2061.2	1762.8	1552.6	1388.8	1322.1
3052.2	12.5°	3124.5	3130.1	2939.2	2561.7	2091.7	1643.0	1220.4	995.5	849.8	795.5
3176.5	15°	3259.0	3251.1	2941.4	2391.1	1705.2	1161.7	796.7	654.3	595.5	577.4
3300.8	17.5°	3400.2	3367.4	2896.2	2144.8	1281.4	794.4	591.0	557.1	546.9	542.4
3424.0	20°	3539.2	3465.8	2813.7	1822.7	919.8	593.3	536.8	526.6	520.9	518.7
3548.3	22.5°	3665.8	3540.3	2672.5	1448.7	667.8	524.3	507.4	498.3	488.2	483.6
3669.2	25°	3788.9	3583.3	2473.6	1099.5	534.5	490.4	476.9	459.9	446.4	440.7
3799.1	27.5°	3908.7	3610.4	2225.0	813.6	476.9	458.8	433.9	410.2	400.0	397.8
3938.1	30°	4036.4	3619.4	1942.5	606.8	441.8	419.2	383.1	356.0	350.3	351.4
4125.7	32.5°	4192.4	3633.0	1657.7	497.2	412.5	371.8	328.8	300.6	296.1	300.6
4399.2	35°	4378.8	3660.1	1383.1	457.7	386.5	323.2	276.9	253.1	248.6	252.0
4749.5	37.5°	4631.9	3704.2	1126.6	449.7	365.0	282.5	232.8	213.6	213.6	214.7
5178.9	40°	4968.7	3821.7	897.2	444.1	353.7	252.0	196.6	188.7	192.1	194.4
5725.8	42.5°	5378.9	4071.4	742.4	437.3	341.3	238.4	178.5	175.2	180.8	183.1
6381.2	45°	5838.8	4387.9	688.2	426.0	330.0	247.5	170.6	166.1	172.9	174.0
7115.7	47.5°	6314.5	4697.5	681.4	413.6	318.7	261.0	168.4	158.2	166.1	167.2
7899.9	50°	6795.9	4899.8	688.2	394.4	300.6	261.0	169.5	150.3	157.1	160.5
8713.6	52.5°	7280.7	4992.4	683.7	352.6	268.9	245.2	169.5	143.5	150.3	152.6
9592.7	55°	7750.8	4974.3	614.7	290.4	228.3	217.0	165.0	137.9	142.4	143.5
10423.3	57.5°	8122.6	4722.3	487.0	226.0	185.3	180.8	150.3	131.1	134.5	133.3
11184.9	60°	8316.9	4168.6	348.0	174.0	145.8	142.4	132.2	122.0	124.3	118.7
11830.1	62.5°	8319.2	3436.4	232.8	137.9	116.4	113.0	113.0	109.6	107.4	96.1
12329.6	65°	8141.8	2623.9	154.8	109.6	93.8	88.1	94.9	93.8	85.9	70.1
12482.2	67.5°	7739.5	1719.9	117.5	85.9	72.3	68.9	75.7	79.1	73.5	58.8
11926.2	70°	6912.3	1001.2	97.2	66.7	54.2	50.9	61.0	67.8	61.0	47.5
10193.9	72.5°	5741.6	540.1	79.1	49.7	37.3	33.9	48.6	55.4	48.6	35.0
6540.5	75°	3725.7	289.3	61.0	32.8	19.2	21.5	36.2	40.7	33.9	22.6
1919.9	77.5°	1250.9	127.7	38.4	15.8	9.0	9.0	21.5	24.9	15.8	7.9
349.2	80°	279.1	53.1	15.8	6.8	3.4	3.4	4.5	4.5	2.3	0.0
107.4	82.5°	91.5	21.5	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.1	85°	35.0	7.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.0	87.5°	13.6	1.1	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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<u>180°</u>
2791.1
2753.9
2421.6
1926.7
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541.3
516.4
482.5
438.4
395.5
351.4
299.5
250.9
213.6
194.4
183.1
175.2
168.4
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