

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: STREETWORKS

Report Number: P849887

Luminaire Tested: **GLAN-SB7A-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21483 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

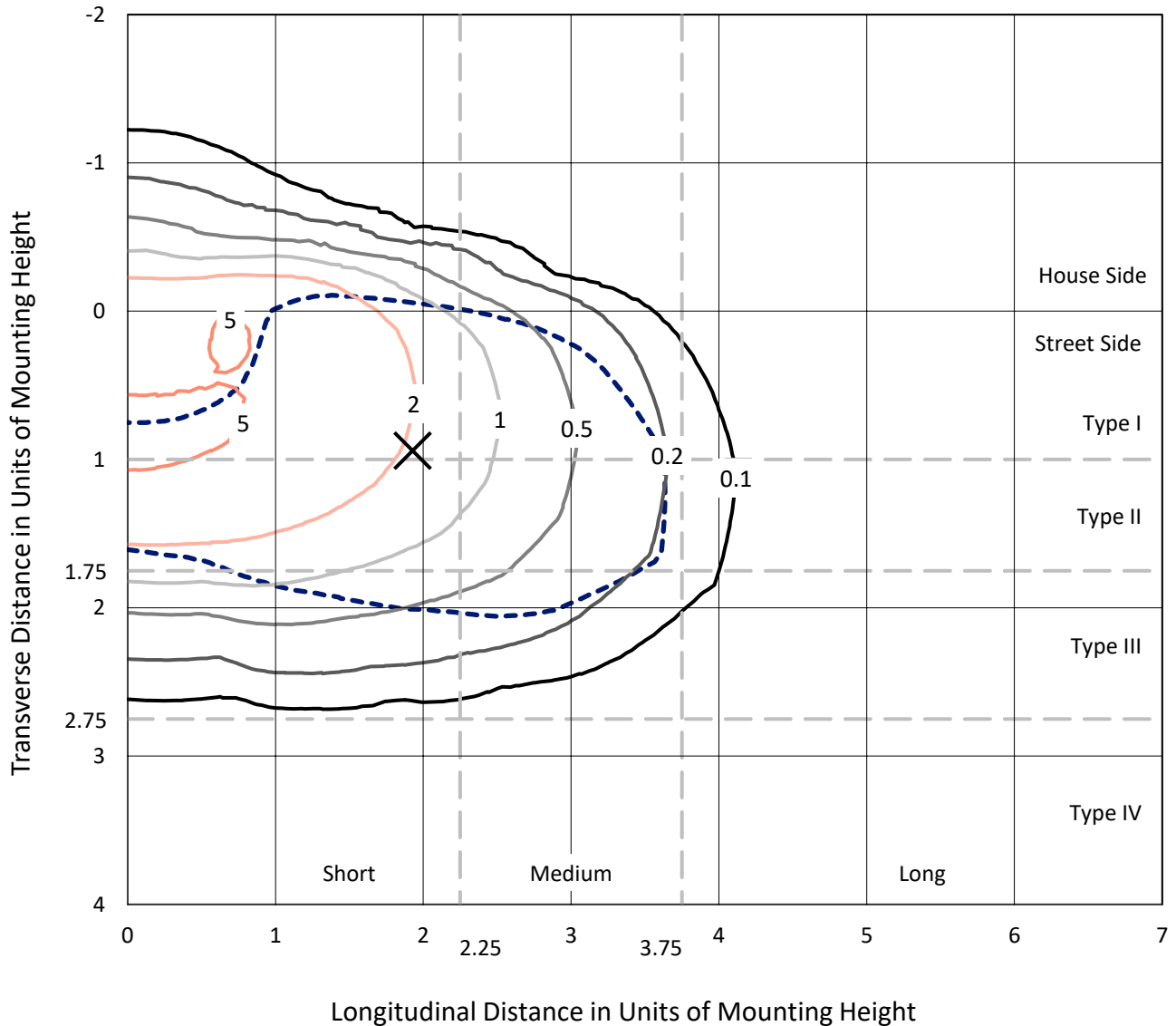
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

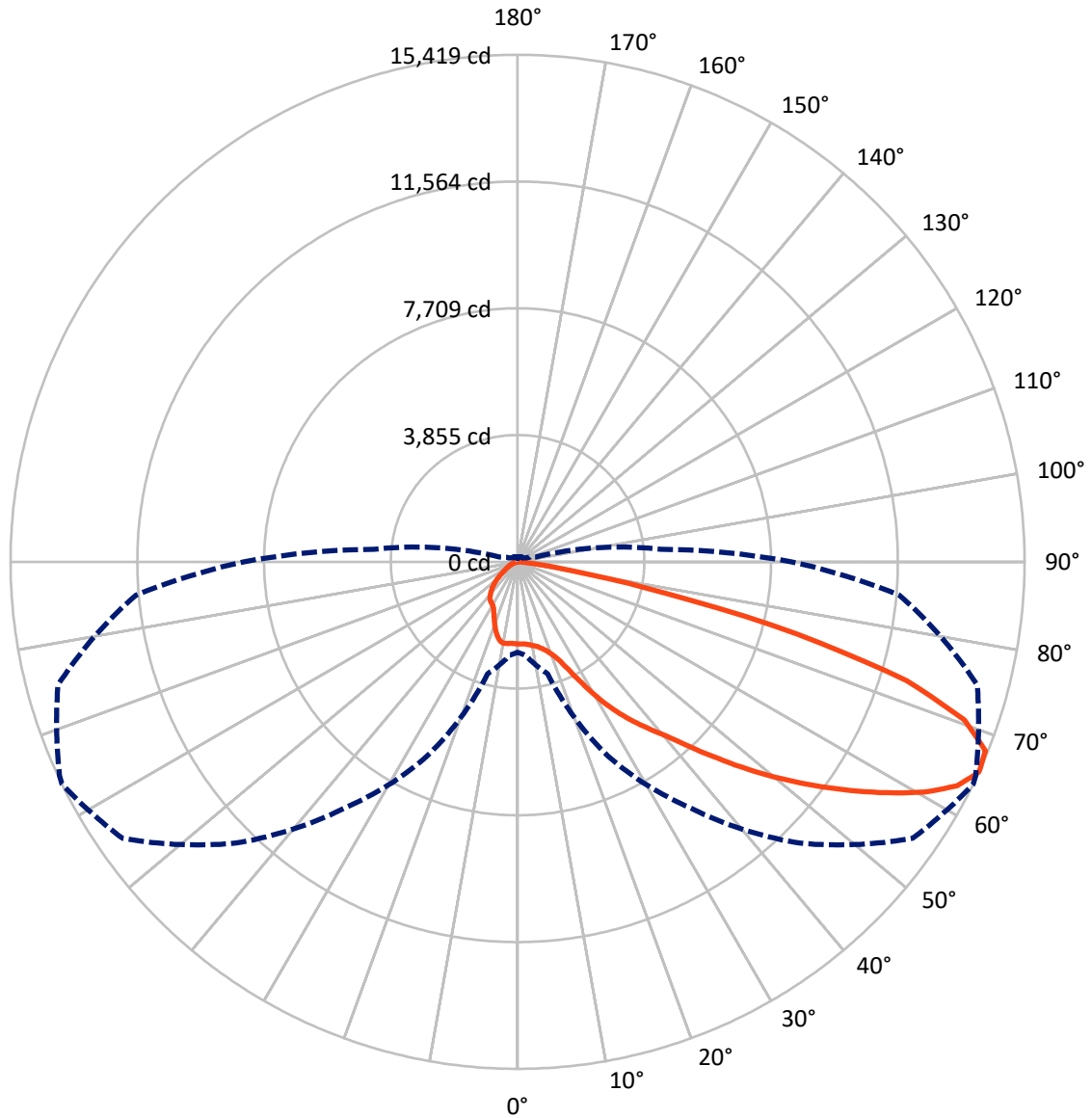
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2872.9	0.0	2872.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18610.1	0.0	18610.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	21483.0	0.0	21483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	1.1
10°-20°	625.3	2.9
20°-30°	1184.8	5.5
30°-40°	2397.5	11.2
40°-50°	4084.2	19.0
50°-60°	5554.2	25.9
60°-70°	5215.7	24.3
70°-80°	2089.6	9.7
80°-90°	101.2	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°	21483.0	100.0
0°-180°	21483.0	100.0

Coefficient of Utilization



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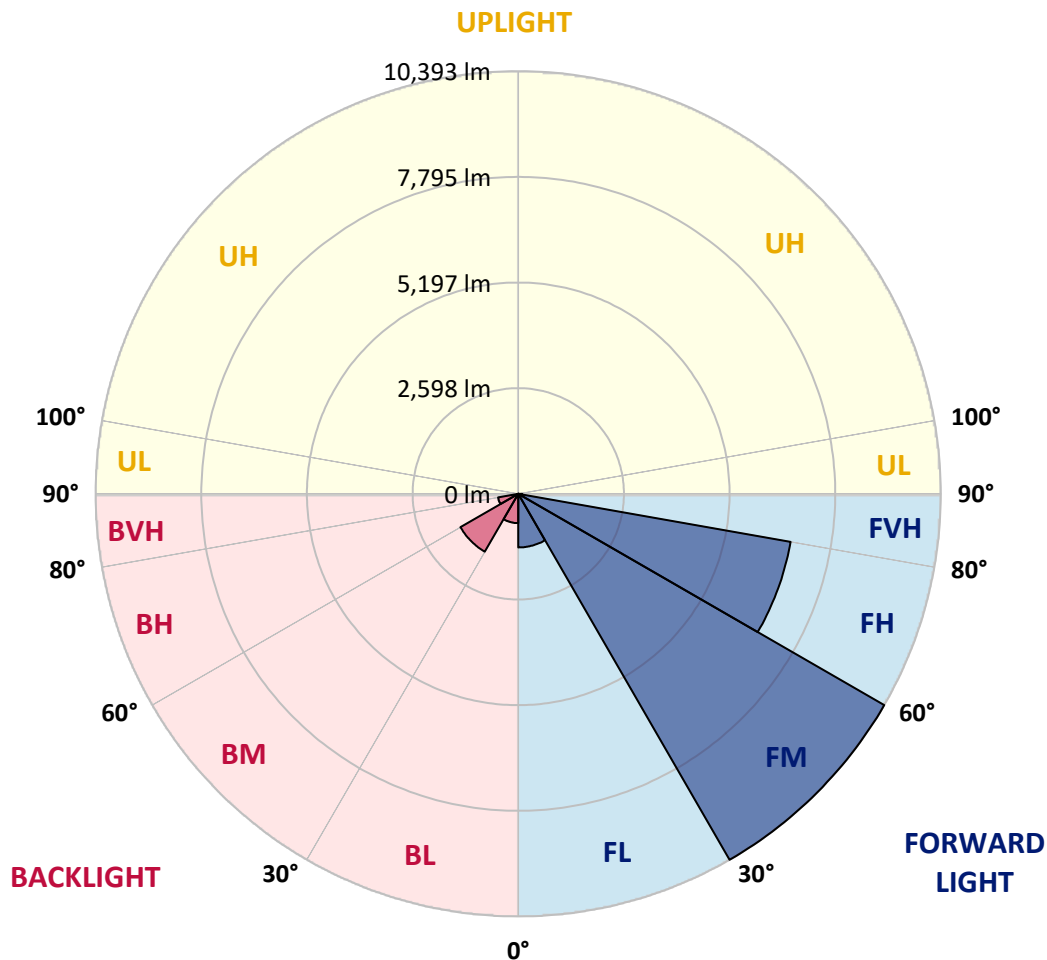
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.3	6.1			
FM (30°-60°)	10393.5	48.4			
FH (60°-80°)	6801.0	31.7			G3/7500
FVH (80°-90°)	96.3	0.4			G1/100
BL (0°-30°)	721.3	3.4	B2/1000		
BM (30°-60°)	1642.4	7.6	B2/2500		
BH (60°-80°)	504.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7
2.5°	2490.1	2507.3	2503.0	2498.7	2497.3	2500.1	2501.6	2500.1	2500.1	2500.1
5°	2442.5	2456.9	2456.9	2467.0	2481.4	2498.7	2511.7	2514.5	2517.4	2521.7
7.5°	2351.8	2363.3	2372.0	2405.1	2441.1	2487.2	2526.1	2546.2	2549.1	2564.9
10°	2289.9	2304.3	2318.7	2353.2	2405.1	2474.2	2540.5	2589.4	2596.6	2634.1
12.5°	2287.0	2301.4	2320.1	2357.6	2418.0	2491.5	2572.1	2642.7	2655.7	2710.4
15°	2317.2	2334.5	2351.8	2397.9	2462.7	2552.0	2638.4	2726.2	2739.2	2817.0
17.5°	2379.2	2402.2	2415.2	2461.3	2530.4	2629.8	2743.5	2844.3	2855.9	2946.6
20°	2501.6	2528.9	2533.3	2570.7	2638.4	2745.0	2880.3	3005.6	3020.0	3123.7
22.5°	2755.0	2793.9	2759.4	2778.1	2838.6	2945.1	3092.0	3250.5	3270.6	3388.7
25°	3201.5	3256.2	3166.9	3135.3	3161.2	3272.1	3456.4	3656.6	3679.6	3774.7
27.5°	4078.6	4008.0	3872.6	3740.1	3662.4	3725.7	3933.1	4180.8	4209.6	4301.8
30°	5042.0	4980.1	4797.2	4503.4	4319.1	4309.0	4500.5	4777.0	4810.2	4898.0
32.5°	6007.0	5947.9	5749.2	5387.7	5068.0	4909.5	5042.0	5348.8	5366.1	5422.2
35°	6956.0	6895.5	6696.8	6326.7	5933.5	5573.5	5547.5	5893.2	5898.9	5958.0
37.5°	7910.9	7860.5	7648.7	7285.8	6898.4	6401.6	6161.0	6408.8	6416.0	6473.6
40°	8592.1	8613.7	8468.2	8187.4	7854.7	7311.7	6849.5	6957.5	6914.3	7010.8
42.5°	9176.8	9220.0	9093.2	8952.1	8759.1	8281.0	7702.0	7683.3	7614.2	7666.0
45°	9682.3	9718.3	9604.5	9571.4	9567.1	9231.5	8633.8	8521.5	8425.0	8414.9
47.5°	9868.0	9937.2	9986.1	10097.0	10313.1	10171.9	9597.3	9423.0	9315.0	9235.8
50°	9938.6	10012.1	10179.1	10501.7	11013.0	11073.5	10556.5	10360.6	10228.1	10084.1
52.5°	9843.6	9974.6	10199.3	10742.2	11483.9	11796.4	11476.7	11305.3	11154.1	10919.4
55°	9283.3	9414.4	9873.8	10739.4	11718.7	12303.4	12346.6	12270.3	12100.3	11730.2
57.5°	8102.4	8296.8	9024.1	10373.5	11714.3	12739.7	13199.2	13253.9	13063.8	12533.8
60°	6466.4	6729.9	7617.1	9562.7	11352.9	12975.9	13946.6	14220.2	14018.6	13325.9
62.5°	4512.1	4817.4	5657.0	8292.5	10526.2	12806.0	14492.4	14997.9	14845.3	14034.5
65°	2752.2	2850.1	3527.0	6525.4	9120.6	12094.6	14660.9	15418.5	15368.1	14468.0
67.5°	1833.3	1915.4	2109.8	4474.6	7079.9	10673.1	14257.7	15345.0	15359.4	14397.4
70°	1104.6	1175.2	1301.9	2602.4	4588.4	8448.0	13009.1	14408.9	14492.4	13454.1
72.5°	455.1	502.6	617.8	1179.5	2376.3	5361.8	10359.1	12371.1	12565.5	11312.5
75°	257.8	282.3	362.9	591.9	1031.2	2498.7	6274.8	8782.2	9068.8	7797.1
77.5°	171.4	182.9	234.7	383.1	580.4	852.6	2681.6	4575.4	5122.7	4258.6
80°	115.2	125.3	161.3	256.4	377.3	365.8	854.0	1695.1	2085.4	1463.2
82.5°	77.8	79.2	115.2	168.5	239.1	177.1	252.0	527.1	662.5	423.4
85°	44.6	43.2	85.0	97.9	106.6	73.4	76.3	158.4	207.4	178.6
87.5°	5.8	8.6	33.1	25.9	14.4	15.8	15.8	27.4	40.3	43.2
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°
2498.7	0°	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7
2501.6	2.5°	2501.6	2500.1	2495.8	2491.5	2481.4	2475.7	2478.5	2475.7	2474.2	2475.7
2520.3	5°	2520.3	2516.0	2504.5	2490.1	2469.9	2445.4	2429.6	2406.5	2384.9	2372.0
2570.7	7.5°	2570.7	2566.4	2550.5	2510.2	2445.4	2343.2	2249.5	2167.5	2105.5	2069.5
2651.4	10°	2651.4	2644.2	2619.7	2530.4	2360.4	2137.2	1951.4	1797.3	1696.5	1649.0
2746.4	12.5°	2746.4	2737.8	2694.6	2511.7	2199.1	1850.6	1594.3	1422.9	1329.3	1287.5
2855.9	15°	2858.7	2847.2	2762.2	2422.4	1964.4	1533.8	1299.0	1170.9	1110.4	1072.9
2995.6	17.5°	2998.4	2978.3	2812.7	2288.4	1709.5	1291.8	1117.6	1021.1	967.8	931.8
3178.5	20°	3179.9	3146.8	2853.0	2128.6	1474.7	1139.2	995.2	914.5	874.2	842.5
3437.7	22.5°	3433.4	3385.8	2901.9	1955.8	1309.1	1034.0	904.4	845.4	812.3	776.3
3799.2	25°	3747.3	3691.2	2962.4	1795.9	1195.3	943.3	838.2	789.2	750.3	708.6
4273.0	27.5°	4186.6	4085.8	3034.4	1664.8	1097.4	865.5	777.7	723.0	678.3	643.8
4810.2	30°	4676.2	4510.6	3097.8	1585.6	1008.1	793.5	698.5	643.8	602.0	577.5
5292.6	32.5°	5140.0	4915.3	3139.6	1551.1	927.5	711.4	612.1	553.0	521.3	514.1
5765.0	35°	5577.8	5281.1	3135.3	1517.9	855.5	629.4	527.1	466.6	442.1	446.5
6273.4	37.5°	6081.8	5671.4	3105.0	1466.1	796.4	554.5	453.7	400.4	378.8	380.2
6891.2	40°	6668.0	6122.2	3086.3	1368.2	731.6	485.3	393.2	350.0	334.1	328.4
7542.2	42.5°	7293.0	6558.5	3089.2	1257.3	651.0	423.4	351.4	315.4	301.0	296.7
8266.6	45°	7920.9	6974.7	3093.5	1142.1	566.0	375.9	321.2	290.9	282.3	276.5
9001.1	47.5°	8511.4	7329.0	3012.8	1018.2	482.5	339.9	296.7	276.5	269.3	262.1
9738.4	50°	9061.6	7565.2	2818.4	874.2	416.2	311.1	278.0	263.6	256.4	249.1
10406.7	52.5°	9489.3	7602.7	2497.3	725.8	370.1	289.5	266.4	253.5	244.8	237.6
10946.7	55°	9679.4	7367.9	2040.7	587.6	334.1	270.8	254.9	241.9	231.9	224.7
11371.6	57.5°	9630.4	6873.9	1591.4	472.4	299.6	252.0	240.5	231.9	220.3	208.8
11715.8	60°	9389.9	6212.9	1199.7	393.2	267.9	231.9	224.7	217.5	201.6	184.3
11848.3	62.5°	8973.7	5381.9	855.5	325.5	233.3	208.8	205.9	200.2	177.1	145.5
11652.4	65°	8337.1	4372.4	576.1	270.8	200.2	182.9	184.3	174.3	144.0	108.0
10935.2	67.5°	7406.8	3197.2	368.7	221.8	167.1	152.7	154.1	148.3	122.4	92.2
9575.7	70°	6221.5	2117.1	240.5	168.5	133.9	118.1	126.7	128.2	103.7	74.9
7349.2	72.5°	4561.0	1250.1	168.5	125.3	97.9	82.1	103.7	106.6	83.5	56.2
4421.3	75°	2599.5	593.4	126.7	90.7	60.5	57.6	80.6	80.6	57.6	37.4
1914.0	77.5°	1091.6	247.7	89.3	59.0	34.6	33.1	54.7	50.4	28.8	17.3
466.6	80°	315.4	110.9	47.5	28.8	14.4	13.0	21.6	15.8	7.2	2.9
177.1	82.5°	123.9	49.0	18.7	11.5	5.8	5.8	2.9	0.0	0.0	0.0
100.8	85°	73.4	20.2	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	18.7	4.3	2.9	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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2498.7
2481.4
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636.6
573.2
518.5
446.5
386.0
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