

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: P636941

Luminaire Tested: **IFLD-S-SA2B-940-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636941  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-940-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6080.9 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

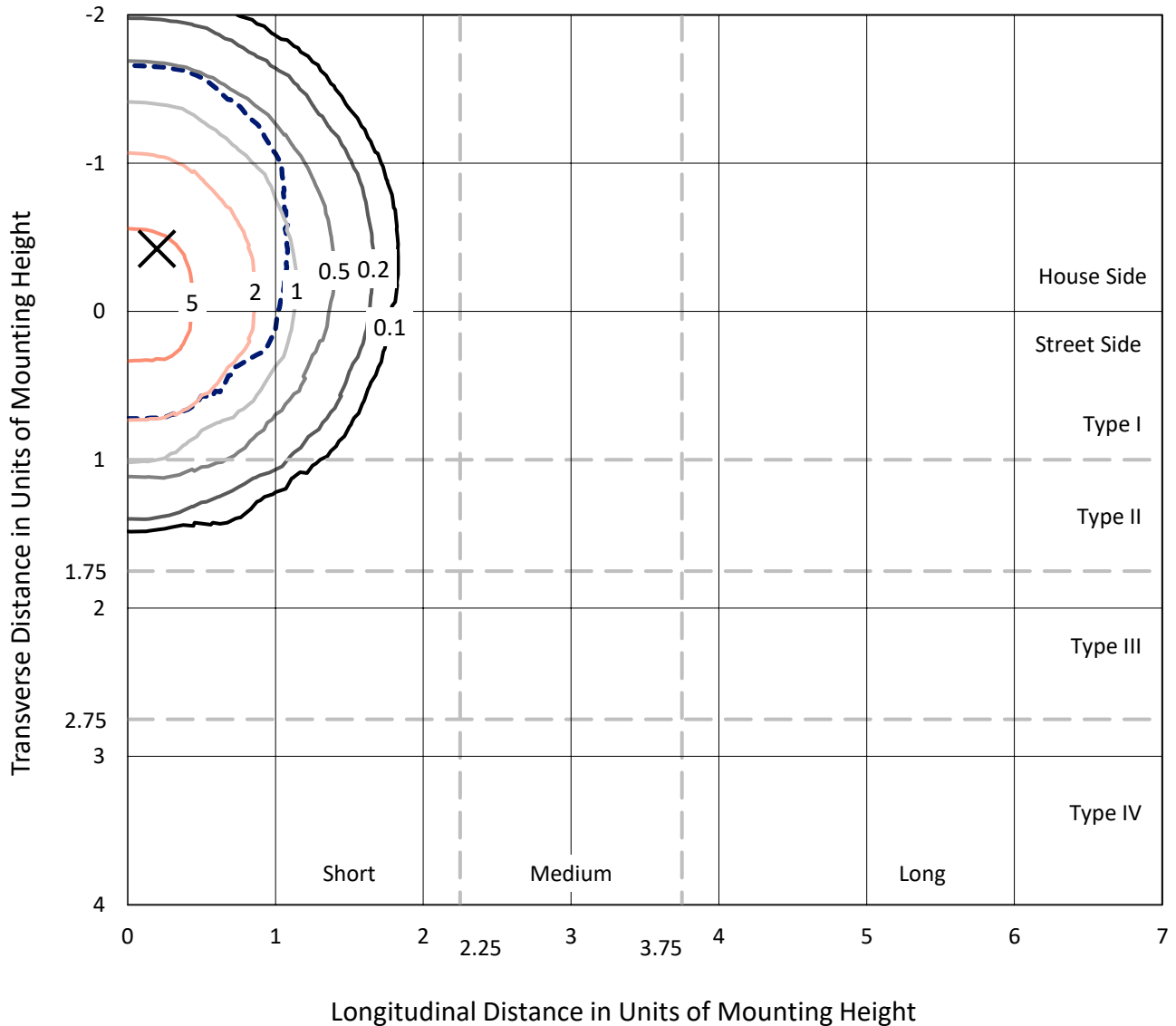
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

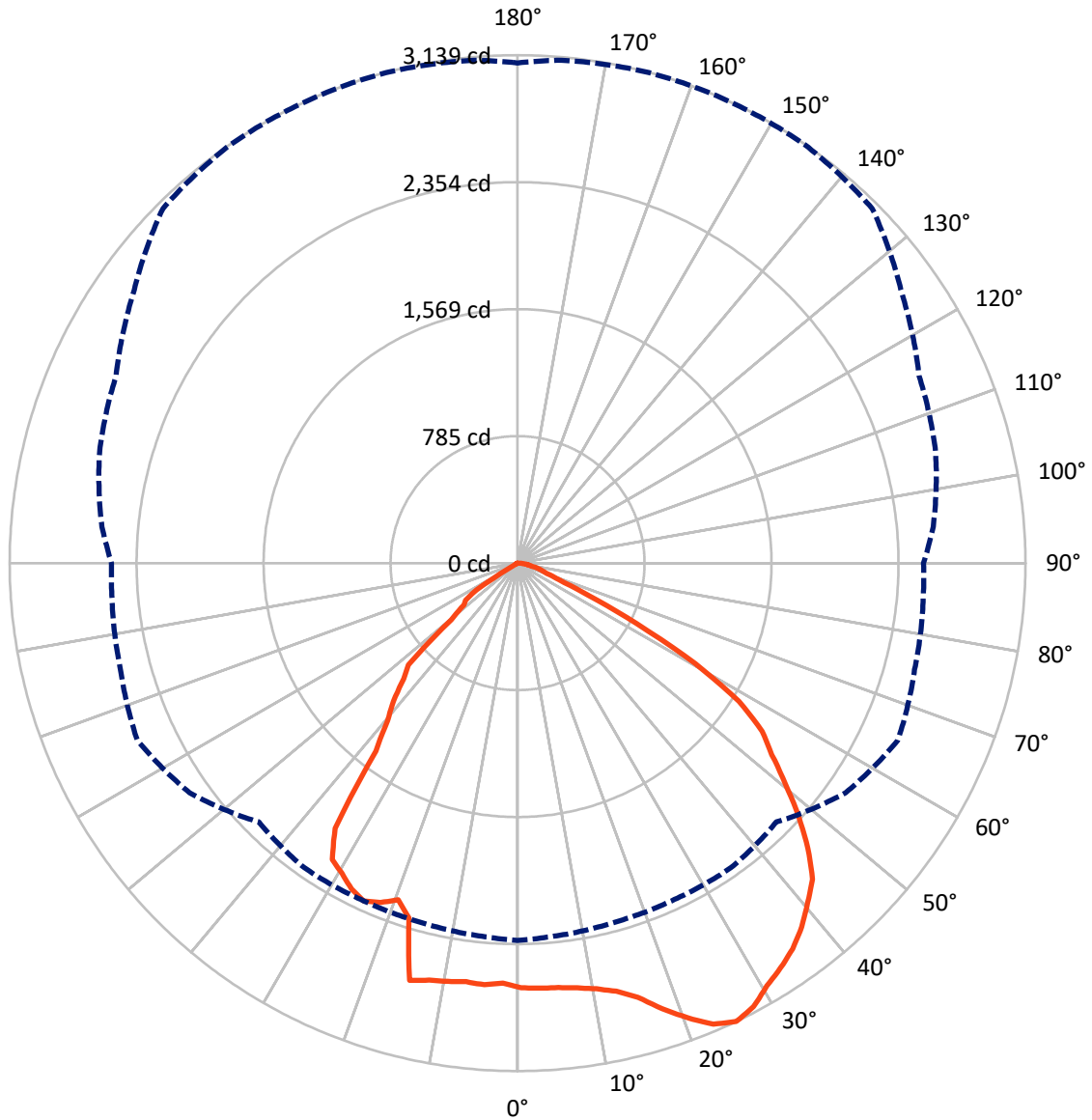
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3764.7	0.0	3764.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2316.2	0.0	2316.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	6080.9	0.0	6080.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.7	4.1
10°-20°	768.6	12.6
20°-30°	1215.1	20.0
30°-40°	1372.6	22.6
40°-50°	1285.5	21.1
50°-60°	886.2	14.6
60°-70°	238.1	3.9
70°-80°	49.6	0.8
80°-90°	13.4	0.2
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°	6080.9	100.0
0°-180°	6080.9	100.0



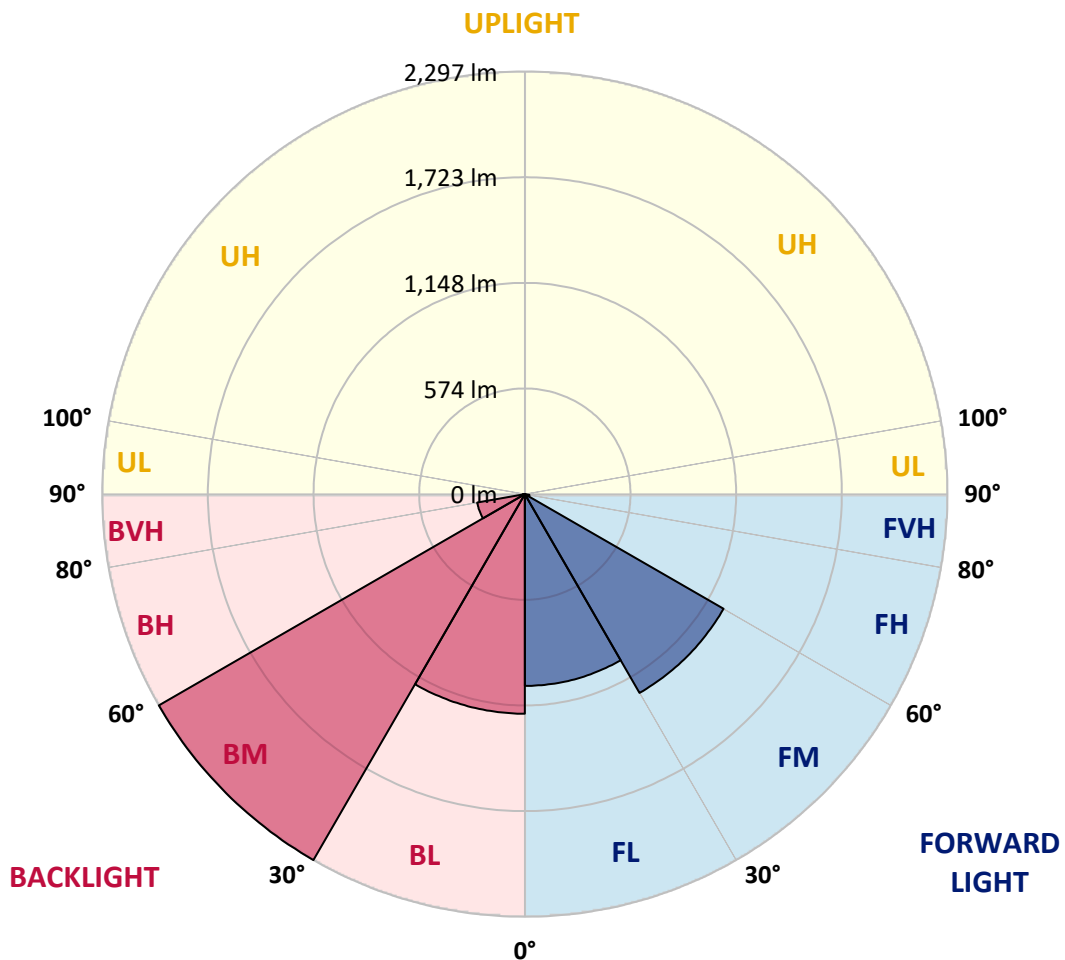
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.1	17.1			
FM (30°-60°)	1247.3	20.5			
FH (60°-80°)	25.0	0.4			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1193.4	19.6	B3/2500		
BM (30°-60°)	2297.0	37.8	B2/2500		
BH (60°-80°)	262.7	4.3	B1/500		G1/500
BVH (80°-90°)	11.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2.5°	2635.4	2618.4	2602.4	2597.0	2619.3	2643.5	2628.3	2629.2	2623.8	2633.6
5°	2655.1	2631.8	2621.1	2613.1	2616.7	2641.7	2620.2	2628.3	2619.3	2631.0
7.5°	2647.9	2631.8	2621.1	2605.9	2617.5	2647.0	2626.5	2627.4	2622.9	2633.6
10°	2643.5	2631.8	2618.4	2620.2	2633.6	2658.7	2642.6	2651.5	2645.3	2651.5
12.5°	2654.2	2641.7	2634.5	2634.5	2646.1	2674.7	2666.7	2674.7	2672.1	2677.4
15°	2553.2	2564.8	2632.7	2663.1	2686.4	2715.0	2711.4	2719.4	2721.2	2729.3
17.5°	2153.7	2142.1	2136.8	2293.1	2708.7	2797.2	2794.5	2793.6	2784.7	2778.4
20°	2206.5	2202.0	2195.7	2207.4	2253.8	2840.1	2857.9	2748.0	2715.9	2713.2
22.5°	2290.5	2283.3	2260.1	2261.0	2275.3	2469.2	2769.5	2669.4	2658.7	2652.4
25°	2331.6	2317.3	2298.5	2293.1	2297.6	2261.9	2473.7	2592.5	2539.8	2515.7
27.5°	2259.2	2260.1	2244.9	2259.2	2242.2	2081.3	1991.1	2442.4	2440.6	2429.9
30°	2204.7	2202.0	2184.1	2202.0	2084.9	1905.3	1866.9	2278.0	2259.2	2244.9
32.5°	2037.6	2039.3	2091.2	2160.9	1968.7	1826.7	1710.5	2034.9	2212.7	2204.7
35°	1457.6	1461.1	1645.2	1989.3	1792.7	1670.3	1661.3	1758.7	2139.4	2143.0
37.5°	1403.1	1403.1	1398.6	1454.9	1654.2	1606.8	1624.7	1614.9	1959.8	1968.7
40°	1363.7	1355.7	1349.4	1261.0	1150.1	1562.1	1574.6	1530.0	1852.6	1854.4
42.5°	1316.4	1307.4	1309.2	1145.7	1029.5	1451.3	1416.5	1356.6	1673.8	1675.6
45°	1229.7	1244.9	1255.6	1002.7	993.8	1036.7	1306.5	1269.0	1553.2	1586.3
47.5°	625.6	639.0	980.4	922.3	942.8	921.4	1103.7	1104.6	1292.2	1402.2
50°	567.5	563.9	564.8	538.0	870.4	745.3	798.0	1012.5	1034.9	1192.2
52.5°	529.1	528.2	473.6	420.9	546.9	656.0	579.1	732.8	769.4	1009.8
55°	391.4	420.0	373.6	395.9	342.3	525.5	522.8	661.3	673.8	809.7
57.5°	3.6	4.5	10.7	301.2	236.8	262.7	361.0	451.3	473.6	630.9
60°	0.9	1.8	4.5	8.9	153.7	161.8	241.3	261.0	294.0	376.2
62.5°	0.0	0.0	1.8	4.5	8.0	66.1	76.9	84.0	129.6	192.1
65°	0.0	0.0	0.9	2.7	4.5	10.7	18.8	39.3	56.3	69.7
67.5°	0.0	0.0	0.9	1.8	3.6	5.4	10.7	15.2	24.1	41.1
70°	0.0	0.0	0.9	1.8	2.7	4.5	7.1	10.7	14.3	20.6
72.5°	0.0	0.0	0.9	1.8	1.8	5.4	5.4	8.0	10.7	13.4
75°	0.0	0.0	0.9	0.9	1.8	3.6	5.4	6.3	7.1	10.7
77.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	7.1	6.3	6.3
80°	0.0	0.0	0.9	2.7	2.7	4.5	5.4	7.1	4.5	4.5
82.5°	0.0	0.0	0.9	3.6	2.7	8.9	8.9	9.8	3.6	3.6
85°	0.0	0.0	2.7	1.8	5.4	8.9	8.0	5.4	4.5	2.7
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	6.3	5.4	1.8	1.8
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2623.8	0°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2607.7	2.5°	2643.5	2631.8	2656.0	2653.3	2641.7	2636.3	2630.1	2624.7	2585.4
2609.5	5°	2644.4	2626.5	2656.0	2650.6	2648.8	2639.9	2634.5	2642.6	2606.8
2616.7	7.5°	2644.4	2626.5	2658.7	2660.4	2657.8	2650.6	2649.7	2655.1	2625.6
2629.2	10°	2662.2	2655.1	2681.9	2684.6	2681.0	2679.2	2674.7	2671.2	2639.9
2672.1	12.5°	2699.8	2685.5	2715.9	2723.9	2721.2	2725.7	2715.0	2720.3	2688.1
2715.9	15°	2745.3	2746.2	2769.5	2787.3	2785.6	2799.9	2783.8	2798.1	2774.8
2765.9	17.5°	2815.0	2824.9	2857.9	2884.8	2894.6	2905.3	2894.6	2899.1	2866.0
2710.5	20°	2741.8	2778.4	2937.5	2986.6	3007.2	3017.0	2999.1	3004.5	2971.4
2642.6	22.5°	2675.6	2723.0	2864.2	3017.9	3081.4	3101.0	3094.8	3093.9	3081.4
2508.5	25°	2578.2	2673.8	2737.3	2899.9	3099.2	3135.0	3138.6	3137.7	3118.9
2426.3	27.5°	2458.5	2479.9	2644.4	2743.6	2974.1	3110.0	3104.6	3078.7	3053.7
2255.6	30°	2305.7	2403.1	2477.2	2635.4	2812.4	3033.1	3033.1	3013.4	2987.5
2194.8	32.5°	2227.9	2353.9	2422.7	2479.9	2631.0	2947.3	2983.1	2962.5	2941.9
2147.5	35°	2186.8	2205.6	2366.4	2418.3	2546.1	2782.0	2926.8	2906.2	2891.0
2021.5	37.5°	2096.5	2140.3	2215.4	2353.9	2393.2	2647.0	2851.7	2841.0	2823.1
1857.9	40°	1895.5	2012.5	2127.8	2259.2	2300.3	2473.7	2760.5	2765.0	2740.9
1683.7	42.5°	1776.6	1856.1	2036.7	2125.1	2236.0	2362.0	2672.1	2679.2	2662.2
1595.2	45°	1637.2	1725.7	1852.6	2013.4	2164.5	2208.2	2515.7	2590.7	2576.4
1419.1	47.5°	1509.4	1580.9	1736.4	1899.0	2066.2	2059.9	2336.0	2477.2	2457.6
1284.2	50°	1328.0	1453.1	1526.4	1675.6	1925.0	1941.9	2144.8	2344.1	2328.0
1091.2	52.5°	1119.8	1277.0	1417.4	1554.1	1782.0	1822.2	1967.0	2208.2	2197.5
833.8	55°	978.6	1093.0	1251.1	1361.1	1608.6	1715.8	1833.8	2078.7	2073.3
685.4	57.5°	696.2	916.9	1047.4	1201.1	1331.6	1525.5	1613.1	1815.0	1765.0
379.8	60°	471.9	575.5	734.6	899.9	987.5	1181.4	1262.7	1424.5	1411.1
227.0	62.5°	249.3	345.0	458.5	541.6	605.0	793.6	827.5	1001.8	997.3
91.2	65°	109.9	145.7	248.4	291.3	356.6	444.2	473.6	536.2	521.0
44.7	67.5°	57.2	86.7	140.3	172.5	217.2	250.2	274.4	294.0	306.5
29.5	70°	34.9	63.5	86.7	119.8	149.2	176.1	194.8	221.6	237.7
15.2	72.5°	25.9	40.2	59.9	92.0	108.1	139.4	158.2	177.8	192.1
12.5	75°	14.3	26.8	48.3	72.4	86.7	113.5	130.5	143.9	148.3
7.1	77.5°	8.9	20.6	40.2	56.3	67.9	92.0	87.6	100.1	110.8
5.4	80°	6.3	15.2	31.3	46.5	47.4	59.0	69.7	80.4	87.6
3.6	82.5°	4.5	12.5	23.2	35.7	31.3	45.6	54.5	62.6	45.6
2.7	85°	3.6	8.9	11.6	21.4	17.9	32.2	27.7	26.8	17.9
1.8	87.5°	2.7	4.5	8.0	9.8	7.1	7.1	8.9	10.7	8.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
2623.8  
2558.6  
2576.4  
2591.6  
2614.0  
2659.5  
2736.4  
2837.4  
2948.2  
3041.1  
*3090.3*  
3034.0  
2977.7  
2925.0  
2869.6  
2805.2  
2735.5  
2660.4  
2578.2  
2471.9  
2330.7  
2204.7  
2079.6  
1759.6  
1412.0  
998.2  
514.8  
306.5  
238.6  
194.8  
145.7  
112.6  
88.5  
33.1  
17.9  
8.9  
0.0

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