

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: P638536

Luminaire Tested: **IFLD-S-SA2B-830-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638536  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6686.8 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

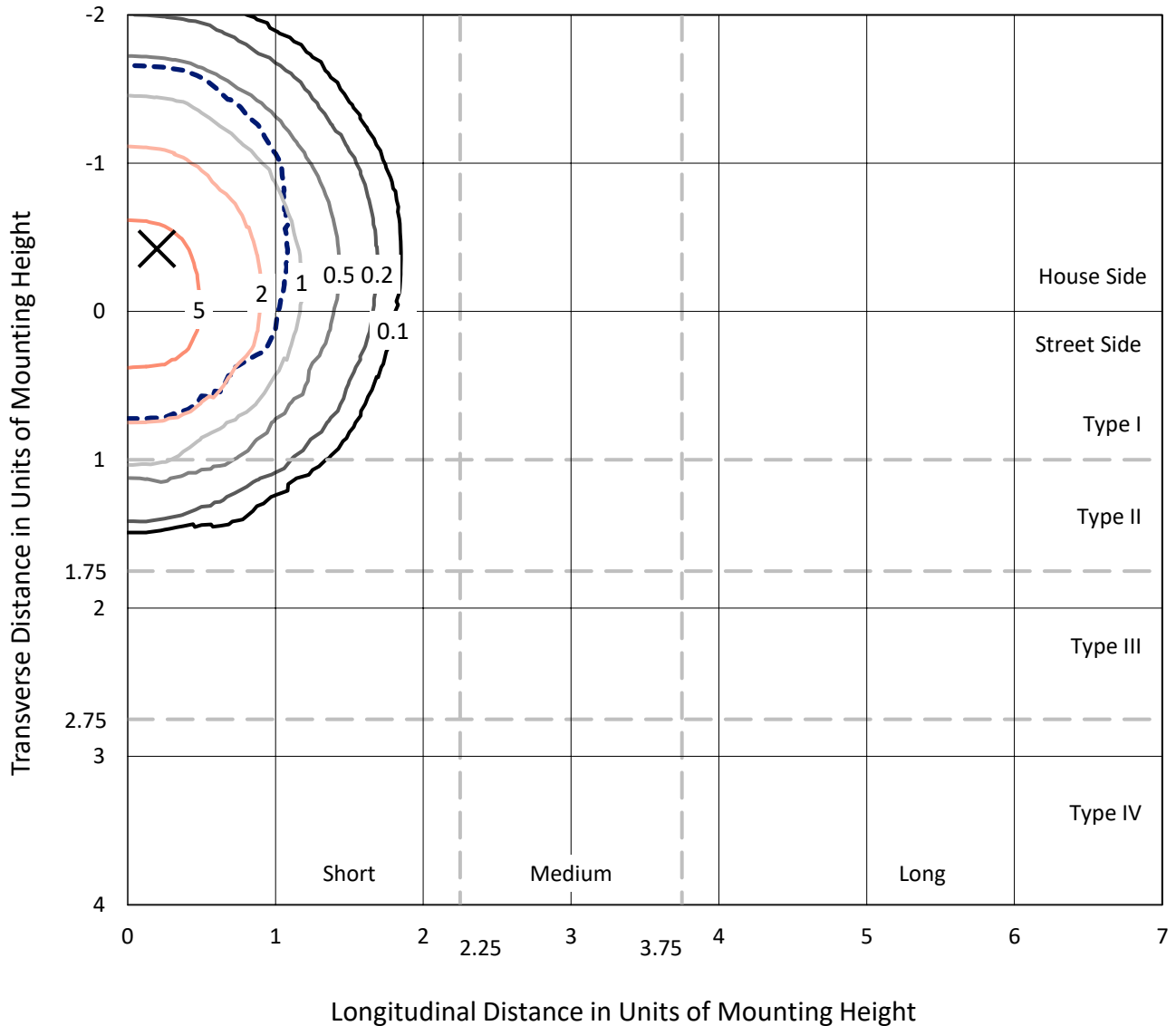
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

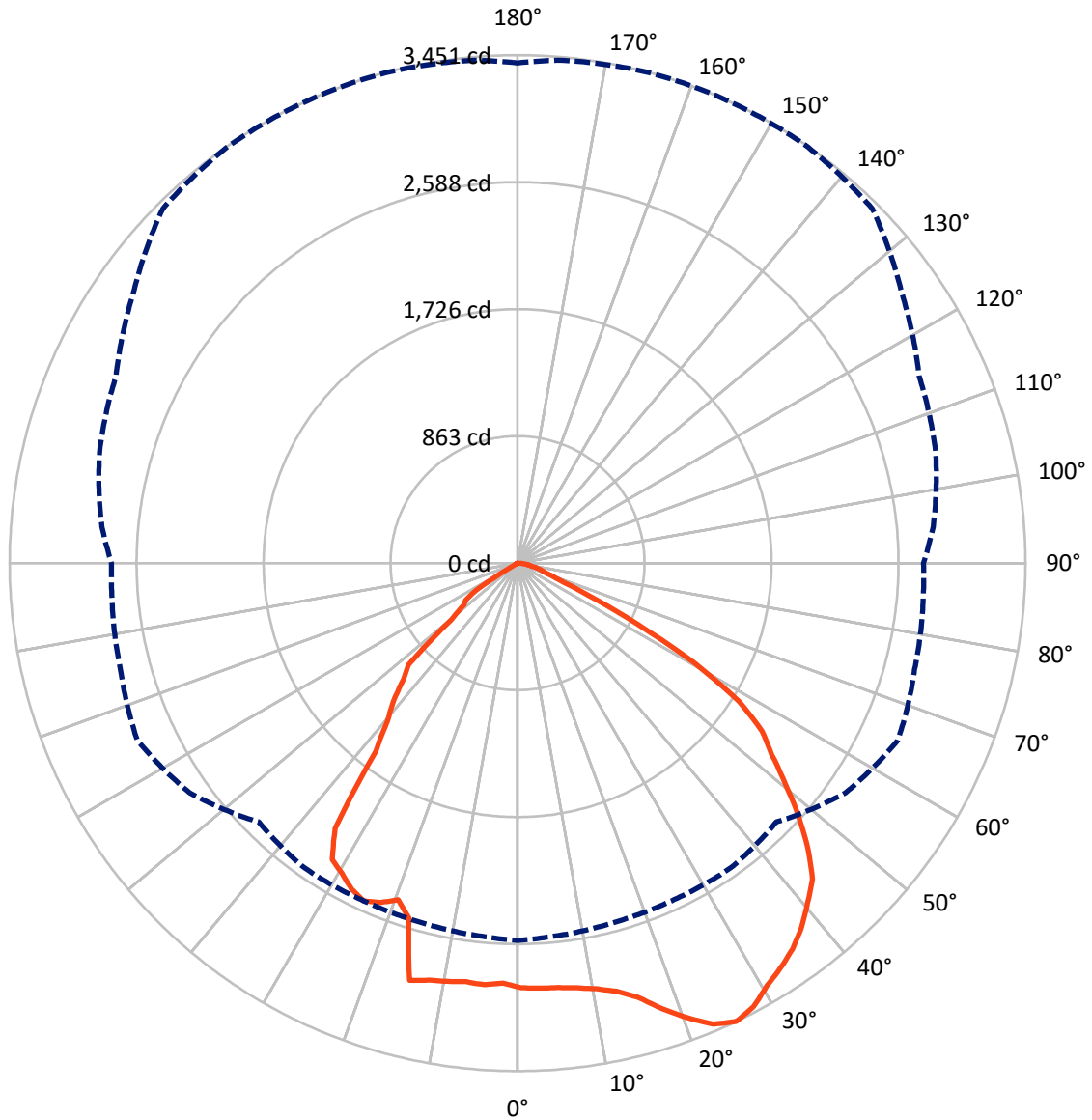
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type I - Short - N/A

REPORT NUMBER: P638536  
CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM-VI

### 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	4139.8	0.0	4139.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2547.0	0.0	2547.0
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	6686.8	0.0	6686.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	4.1
10°-20°	845.2	12.6
20°-30°	1336.2	20.0
30°-40°	1509.4	22.6
40°-50°	1413.5	21.1
50°-60°	974.5	14.6
60°-70°	261.8	3.9
70°-80°	54.6	0.8
80°-90°	14.8	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°	6686.8	100.0
0°-180°	6686.8	100.0



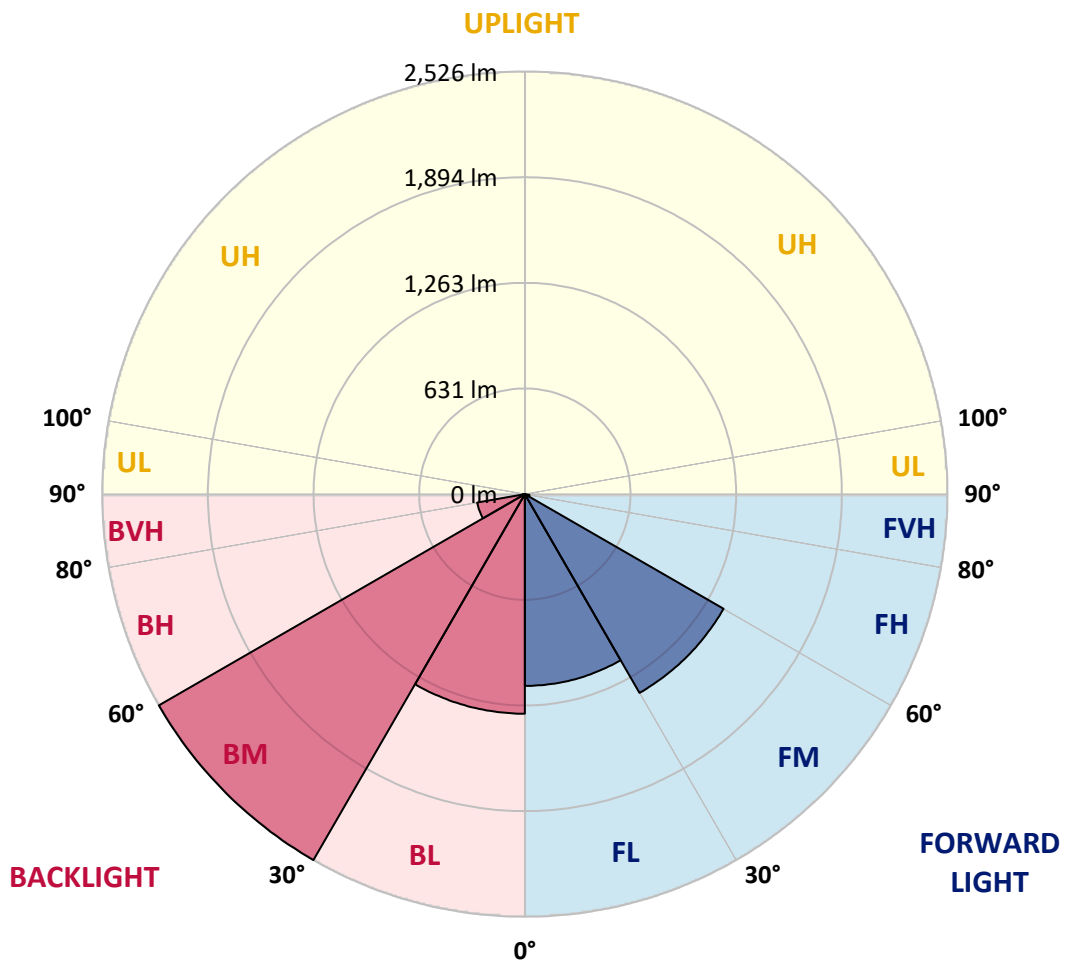
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 CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.9	17.1			
FM (30°-60°)	1371.6	20.5			
FH (60°-80°)	27.5	0.4			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1312.3	19.6	B3/2500		
BM (30°-60°)	2525.8	37.8	B3/5000		
BH (60°-80°)	288.9	4.3	B1/500		G1/500
BVH (80°-90°)	12.8	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





REPORT NUMBER: P638536  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2
2.5°	2898.0	2879.3	2861.7	2855.8	2880.3	2906.9	2890.2	2891.1	2885.2	2896.0
5°	2919.6	2894.1	2882.3	2873.4	2877.4	2904.9	2881.3	2890.2	2880.3	2893.1
7.5°	2911.8	2894.1	2882.3	2865.6	2878.4	2910.8	2888.2	2889.2	2884.3	2896.0
10°	2906.9	2894.1	2879.3	2881.3	2896.0	2923.6	2905.9	2915.7	2908.8	2915.7
12.5°	2918.7	2904.9	2897.0	2897.0	2909.8	2941.3	2932.4	2941.3	2938.3	2944.2
15°	2807.6	2820.4	2895.1	2928.5	2954.0	2985.5	2981.5	2990.4	2992.4	3001.2
17.5°	2368.3	2355.6	2349.7	2521.6	2978.6	3075.9	3072.9	3072.0	3062.1	3055.2
20°	2426.3	2421.4	2414.5	2427.3	2478.4	3123.1	3142.7	3021.8	2986.5	2983.5
22.5°	2518.7	2510.8	2485.3	2486.3	2502.0	2715.2	3045.4	2935.4	2923.6	2916.7
25°	2563.9	2548.2	2527.5	2521.6	2526.5	2487.2	2720.1	2850.8	2792.9	2766.3
27.5°	2484.3	2485.3	2468.6	2484.3	2465.6	2288.7	2189.5	2685.7	2683.8	2672.0
30°	2424.3	2421.4	2401.7	2421.4	2292.7	2095.1	2052.9	2504.9	2484.3	2468.6
32.5°	2240.6	2242.5	2299.5	2376.2	2164.9	2008.7	1880.9	2237.6	2433.2	2424.3
35°	1602.8	1606.7	1809.2	2187.5	1971.3	1836.7	1826.9	1934.0	2352.6	2356.5
37.5°	1542.9	1542.9	1537.9	1599.9	1819.0	1766.9	1786.6	1775.8	2155.1	2164.9
40°	1499.6	1490.8	1483.9	1386.6	1264.7	1717.8	1731.5	1682.4	2037.2	2039.1
42.5°	1447.5	1437.7	1439.7	1259.8	1132.1	1595.9	1557.6	1491.8	1840.6	1842.6
45°	1352.2	1368.9	1380.7	1102.6	1092.8	1139.9	1436.7	1395.4	1708.0	1744.3
47.5°	687.9	702.6	1078.0	1014.2	1036.8	1013.2	1213.6	1214.6	1421.0	1541.9
50°	624.0	620.1	621.1	591.6	957.2	819.6	877.6	1113.4	1138.0	1310.9
52.5°	581.8	580.8	520.8	462.9	601.4	721.3	636.8	805.8	846.1	1110.5
55°	430.4	461.9	410.8	435.3	376.4	577.8	574.9	727.2	741.0	890.3
57.5°	3.9	4.9	11.8	331.2	260.4	288.9	397.0	496.3	520.8	693.8
60°	1.0	2.0	4.9	9.8	169.0	177.9	265.3	287.0	323.3	413.7
62.5°	0.0	0.0	2.0	4.9	8.8	72.7	84.5	92.4	142.5	211.3
65°	0.0	0.0	1.0	2.9	4.9	11.8	20.6	43.2	61.9	76.7
67.5°	0.0	0.0	1.0	2.0	3.9	5.9	11.8	16.7	26.5	45.2
70°	0.0	0.0	1.0	2.0	2.9	4.9	7.9	11.8	15.7	22.6
72.5°	0.0	0.0	1.0	2.0	2.0	5.9	5.9	8.8	11.8	14.7
75°	0.0	0.0	1.0	1.0	2.0	3.9	5.9	6.9	7.9	11.8
77.5°	0.0	0.0	1.0	2.0	2.9	3.9	4.9	7.9	6.9	6.9
80°	0.0	0.0	1.0	2.9	2.9	4.9	5.9	7.9	4.9	4.9
82.5°	0.0	0.0	1.0	3.9	2.9	9.8	9.8	10.8	3.9	3.9
85°	0.0	0.0	2.9	2.0	5.9	9.8	8.8	5.9	4.9	2.9
87.5°	0.0	0.0	1.0	1.0	2.0	2.9	6.9	5.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638536

CATALOG NUMBER: IFLD-S-SA2B-830-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2885.2	0°	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2	2885.2
2867.6	2.5°	2906.9	2894.1	2920.6	2917.7	2904.9	2899.0	2892.1	2886.2	2843.0
2869.5	5°	2907.8	2888.2	2920.6	2914.7	2912.8	2902.9	2897.0	2905.9	2866.6
2877.4	7.5°	2907.8	2888.2	2923.6	2925.5	2922.6	2914.7	2913.7	2919.6	2887.2
2891.1	10°	2927.5	2919.6	2949.1	2952.1	2948.1	2946.2	2941.3	2937.3	2902.9
2938.3	12.5°	2968.8	2953.0	2986.5	2995.3	2992.4	2997.3	2985.5	2991.4	2956.0
2986.5	15°	3018.9	3019.9	3045.4	3065.1	3063.1	3078.8	3061.1	3076.9	3051.3
3041.5	17.5°	3095.5	3106.3	3142.7	3172.2	3183.0	3194.8	3183.0	3187.9	3151.6
2980.6	20°	3015.0	3055.2	3230.2	3284.2	3306.8	3317.6	3298.0	3303.9	3267.5
2905.9	22.5°	2942.2	2994.3	3149.6	3318.6	3388.4	3410.0	3403.1	3402.1	3388.4
2758.5	25°	2835.1	2940.3	3010.0	3188.9	3408.0	3447.3	3451.3	3450.3	3429.7
2668.1	27.5°	2703.4	2727.0	2907.8	3016.9	3270.5	3419.8	3413.9	3385.4	3357.9
2480.4	30°	2535.4	2642.5	2724.1	2898.0	3092.6	3335.3	3335.3	3313.7	3285.2
2413.5	32.5°	2449.9	2588.5	2664.1	2727.0	2893.1	3241.0	3280.3	3257.7	3235.1
2361.5	35°	2404.7	2425.3	2602.2	2659.2	2799.7	3059.2	3218.4	3195.8	3179.1
2222.9	37.5°	2305.4	2353.6	2436.1	2588.5	2631.7	2910.8	3135.8	3124.0	3104.4
2043.1	40°	2084.3	2213.1	2339.8	2484.3	2529.5	2720.1	3035.6	3040.5	3014.0
1851.4	42.5°	1953.6	2041.1	2239.6	2336.9	2458.7	2597.3	2938.3	2946.2	2927.5
1754.1	45°	1800.3	1897.6	2037.2	2214.0	2380.1	2428.3	2766.3	2848.9	2833.2
1560.5	47.5°	1659.8	1738.4	1909.4	2088.3	2272.0	2265.1	2568.8	2724.1	2702.5
1412.2	50°	1460.3	1597.9	1678.5	1842.6	2116.8	2135.4	2358.5	2577.7	2560.0
1199.9	52.5°	1231.3	1404.3	1558.6	1708.9	1959.5	2003.7	2162.9	2428.3	2416.5
916.9	55°	1076.1	1201.9	1375.8	1496.7	1768.9	1886.8	2016.5	2285.8	2279.9
753.7	57.5°	765.5	1008.3	1151.7	1320.8	1464.2	1677.5	1773.8	1995.9	1940.9
417.7	60°	518.9	632.9	807.8	989.6	1085.9	1299.1	1388.6	1566.4	1551.7
249.6	62.5°	274.2	379.3	504.1	595.5	665.3	872.6	910.0	1101.6	1096.7
100.2	65°	120.9	160.2	273.2	320.4	392.1	488.4	520.8	589.6	572.9
49.1	67.5°	62.9	95.3	154.3	189.7	238.8	275.2	301.7	323.3	337.1
32.4	70°	38.3	69.8	95.3	131.7	164.1	193.6	214.2	243.7	261.4
16.7	72.5°	28.5	44.2	65.8	101.2	118.9	153.3	173.9	195.6	211.3
13.8	75°	15.7	29.5	53.1	79.6	95.3	124.8	143.5	158.2	163.1
7.9	77.5°	9.8	22.6	44.2	61.9	74.7	101.2	96.3	110.1	121.9
5.9	80°	6.9	16.7	34.4	51.1	52.1	64.9	76.7	88.4	96.3
3.9	82.5°	4.9	13.8	25.6	39.3	34.4	50.1	59.9	68.8	50.1
2.9	85°	3.9	9.8	12.8	23.6	19.7	35.4	30.5	29.5	19.7
2.0	87.5°	2.9	4.9	8.8	10.8	7.9	7.9	9.8	11.8	9.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
2885.2  
2813.5  
2833.2  
2849.9  
2874.4  
2924.5  
3009.1  
3120.1  
3242.0  
3344.2  
3398.2  
3336.3  
3274.4  
3216.4  
3155.5  
3084.7  
3008.1  
2925.5  
2835.1  
2718.2  
2562.9  
2424.3  
2286.8  
1935.0  
1552.7  
1097.7  
566.0  
337.1  
262.4  
214.2  
160.2  
123.8  
97.3  
36.4  
19.7  
9.8  
0.0

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