

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: P638332

Luminaire Tested: **IFLD-S-SA2A-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638332
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5690.6 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

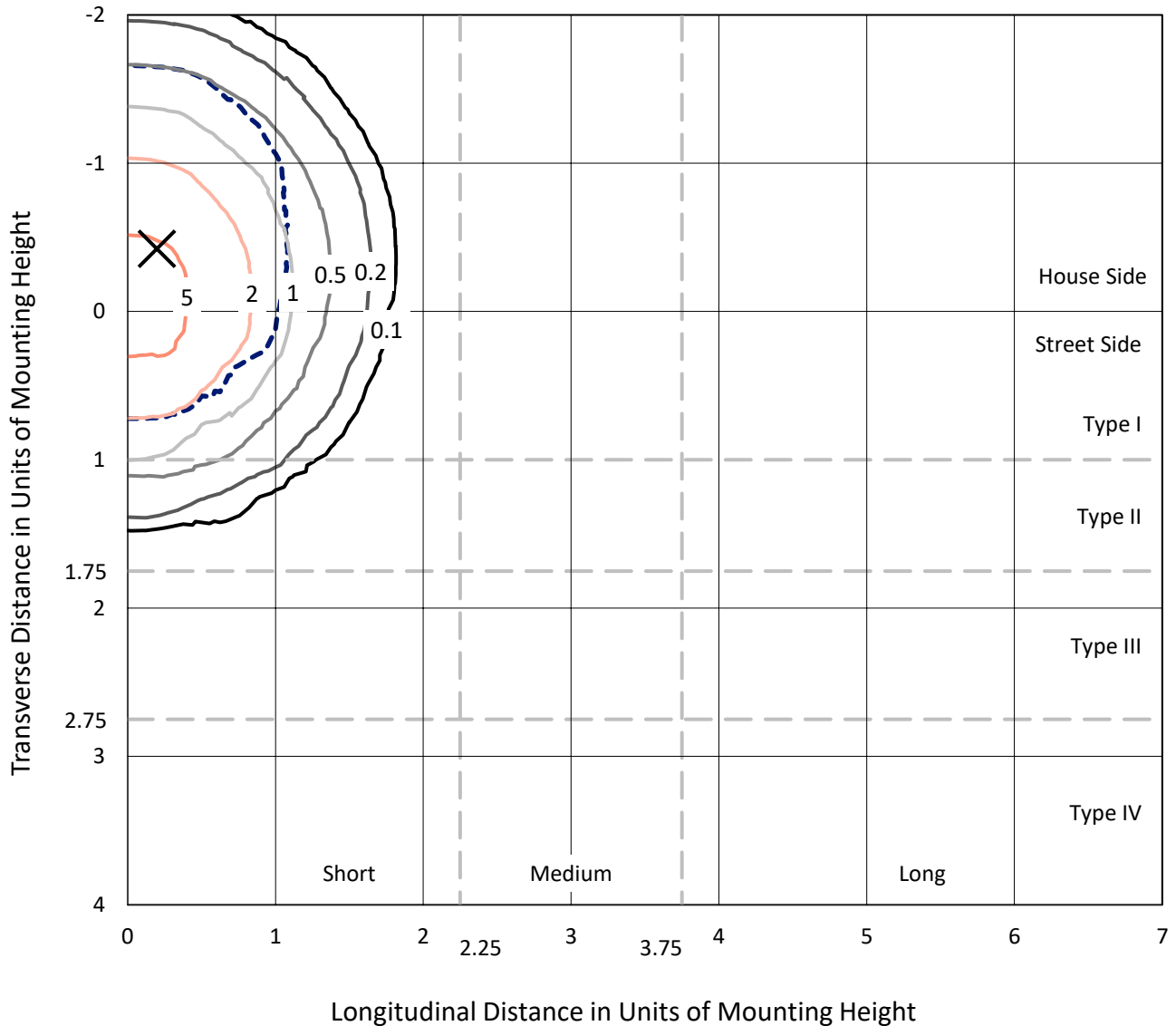
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

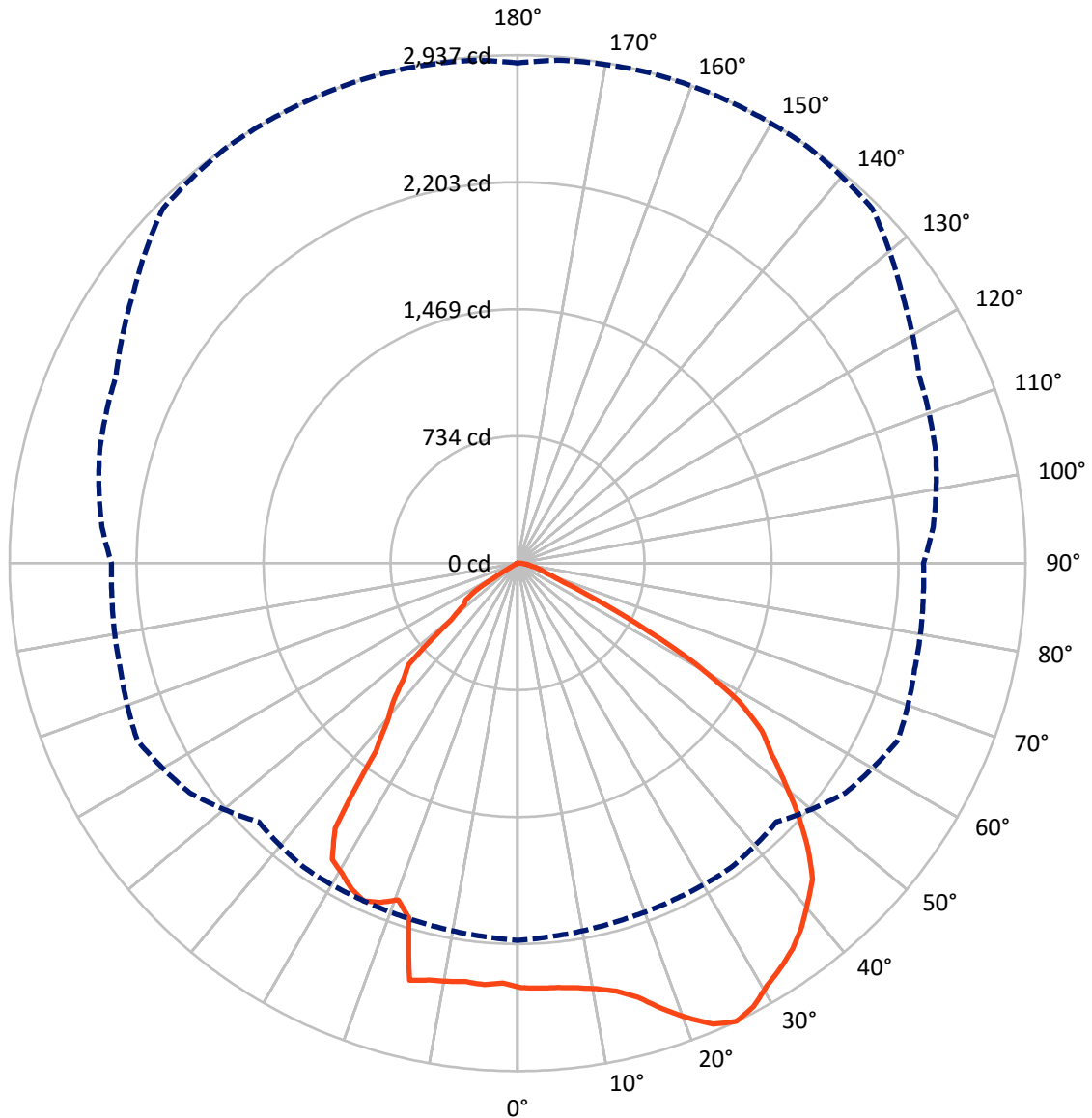
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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
House Side	Lumens	3523.0	0.0	3523.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2167.5	0.0	2167.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	5690.6	0.0	5690.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	4.1
10°-20°	719.3	12.6
20°-30°	1137.1	20.0
30°-40°	1284.5	22.6
40°-50°	1203.0	21.1
50°-60°	829.3	14.6
60°-70°	222.8	3.9
70°-80°	46.4	0.8
80°-90°	12.6	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°	5690.6	100.0
0°-180°	5690.6	100.0



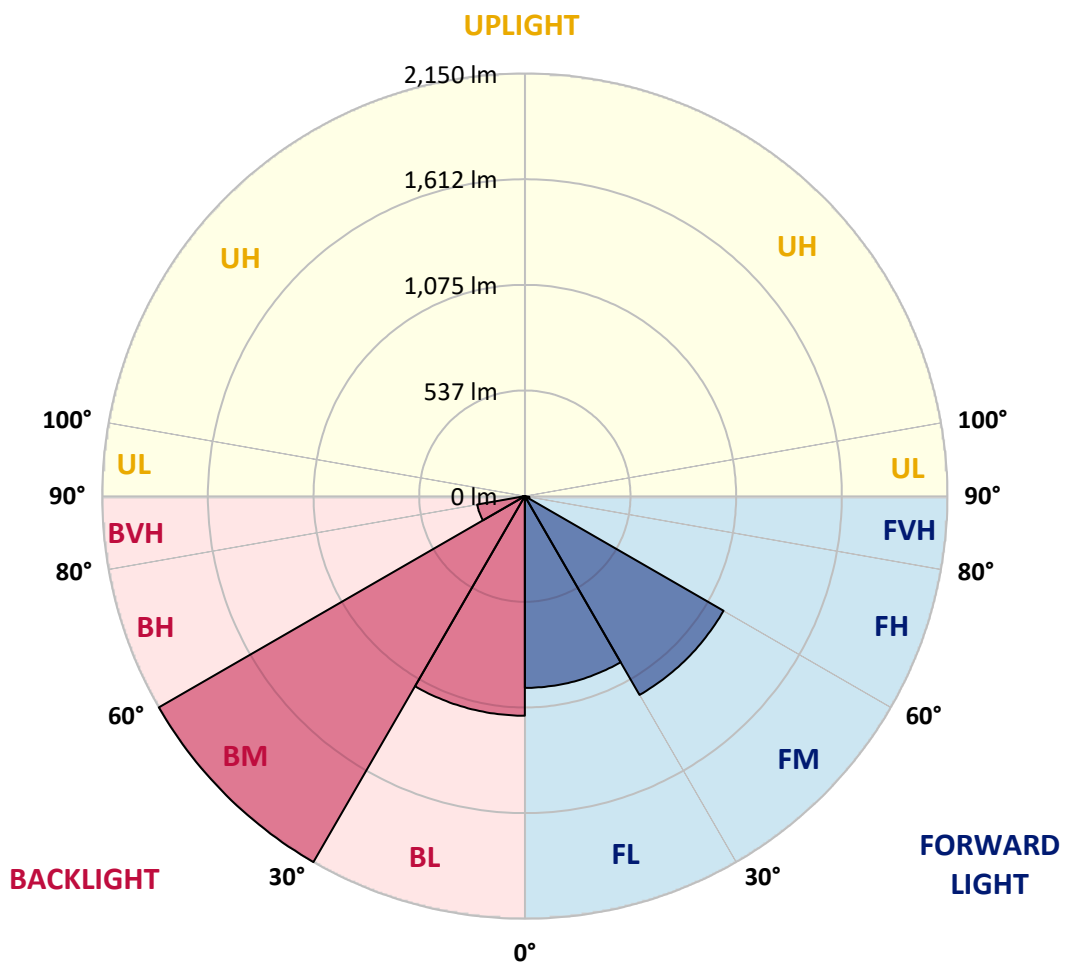
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.2	17.1			
FM (30°-60°)	1167.3	20.5			
FH (60°-80°)	23.4	0.4			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1116.8	19.6	B3/2500		
BM (30°-60°)	2149.5	37.8	B2/2500		
BH (60°-80°)	245.9	4.3	B1/500		G1/500
BVH (80°-90°)	10.9	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°	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4
2.5°	2466.3	2450.4	2435.3	2430.3	2451.2	2473.8	2459.6	2460.4	2455.4	2464.6
5°	2484.7	2462.9	2452.9	2445.4	2448.7	2472.1	2452.0	2459.6	2451.2	2462.1
7.5°	2478.0	2462.9	2452.9	2438.7	2449.5	2477.1	2457.9	2458.7	2454.6	2464.6
10°	2473.8	2462.9	2450.4	2452.0	2464.6	2488.0	2473.0	2481.3	2475.5	2481.3
12.5°	2483.8	2472.1	2465.4	2465.4	2476.3	2503.1	2495.5	2503.1	2500.5	2505.6
15°	2389.3	2400.2	2463.8	2492.2	2513.9	2540.7	2537.3	2544.9	2546.5	2554.1
17.5°	2015.5	2004.6	1999.6	2146.0	2534.8	2617.6	2615.1	2614.3	2605.9	2600.1
20°	2064.8	2060.7	2054.8	2065.7	2109.2	2657.8	2674.5	2571.6	2541.5	2539.0
22.5°	2143.4	2136.8	2115.0	2115.8	2129.2	2310.7	2591.7	2498.0	2488.0	2482.1
25°	2181.9	2168.5	2151.0	2146.0	2150.1	2116.7	2314.9	2426.1	2376.8	2354.2
27.5°	2114.2	2115.0	2100.8	2114.2	2098.3	1947.8	1863.3	2285.6	2283.9	2273.9
30°	2063.2	2060.7	2043.9	2060.7	1951.1	1783.0	1747.0	2131.7	2114.2	2100.8
32.5°	1906.8	1908.4	1957.0	2022.2	1842.4	1709.4	1600.7	1904.3	2070.7	2063.2
35°	1364.0	1367.4	1539.6	1861.6	1677.6	1563.1	1554.7	1645.8	2002.1	2005.5
37.5°	1313.0	1313.0	1308.8	1361.5	1548.0	1503.7	1520.4	1511.2	1834.0	1842.4
40°	1276.2	1268.7	1262.8	1180.0	1076.3	1461.9	1473.6	1431.8	1733.7	1735.3
42.5°	1231.9	1223.5	1225.2	1072.1	963.4	1358.2	1325.5	1269.5	1566.4	1568.1
45°	1150.8	1165.0	1175.0	938.3	930.0	970.1	1222.7	1187.6	1453.5	1484.4
47.5°	585.4	598.0	917.4	863.1	882.3	862.2	1032.8	1033.7	1209.3	1312.2
50°	531.1	527.7	528.5	503.5	814.6	697.5	746.8	947.5	968.4	1115.6
52.5°	495.1	494.3	443.2	393.9	511.8	613.8	541.9	685.8	720.1	945.0
55°	366.3	393.1	349.6	370.5	320.3	491.7	489.2	618.9	630.6	757.7
57.5°	3.3	4.2	10.0	281.8	221.6	245.9	337.9	422.3	443.2	590.4
60°	0.8	1.7	4.2	8.4	143.8	151.4	225.8	244.2	275.1	352.1
62.5°	0.0	0.0	1.7	4.2	7.5	61.9	71.9	78.6	121.3	179.8
65°	0.0	0.0	0.8	2.5	4.2	10.0	17.6	36.8	52.7	65.2
67.5°	0.0	0.0	0.8	1.7	3.3	5.0	10.0	14.2	22.6	38.5
70°	0.0	0.0	0.8	1.7	2.5	4.2	6.7	10.0	13.4	19.2
72.5°	0.0	0.0	0.8	1.7	1.7	5.0	5.0	7.5	10.0	12.5
75°	0.0	0.0	0.8	0.8	1.7	3.3	5.0	5.9	6.7	10.0
77.5°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	6.7	5.9	5.9
80°	0.0	0.0	0.8	2.5	2.5	4.2	5.0	6.7	4.2	4.2
82.5°	0.0	0.0	0.8	3.3	2.5	8.4	8.4	9.2	3.3	3.3
85°	0.0	0.0	2.5	1.7	5.0	8.4	7.5	5.0	4.2	2.5
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	5.9	5.0	1.7	1.7
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°
2455.4	0°	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4	2455.4
2440.3	2.5°	2473.8	2462.9	2485.5	2483.0	2472.1	2467.1	2461.2	2456.2	2419.4
2442.0	5°	2474.6	2457.9	2485.5	2480.5	2478.8	2470.4	2465.4	2473.0	2439.5
2448.7	7.5°	2474.6	2457.9	2488.0	2489.7	2487.2	2480.5	2479.6	2484.7	2457.1
2460.4	10°	2491.3	2484.7	2509.7	2512.3	2508.9	2507.2	2503.1	2499.7	2470.4
2500.5	12.5°	2526.5	2513.1	2541.5	2549.1	2546.5	2550.7	2540.7	2545.7	2515.6
2541.5	15°	2569.1	2570.0	2591.7	2608.4	2606.8	2620.1	2605.1	2618.5	2596.7
2588.4	17.5°	2634.4	2643.6	2674.5	2699.6	2708.8	2718.8	2708.8	2713.0	2682.0
2536.5	20°	2565.8	2600.1	2748.9	2794.9	2814.2	2823.4	2806.6	2811.7	2780.7
2473.0	22.5°	2503.9	2548.2	2680.4	2824.2	2883.6	2902.0	2896.1	2895.3	2883.6
2347.5	25°	2412.7	2502.2	2561.6	2713.8	2900.3	2933.8	2937.1	2936.3	2918.7
2270.6	27.5°	2300.7	2320.7	2474.6	2567.5	2783.2	2910.3	2905.3	2881.1	2857.7
2110.8	30°	2157.7	2248.8	2318.2	2466.3	2631.8	2838.4	2838.4	2820.0	2795.8
2054.0	32.5°	2084.9	2202.8	2267.2	2320.7	2462.1	2758.1	2791.6	2772.3	2753.1
2009.6	35°	2046.4	2064.0	2214.5	2263.0	2382.6	2603.4	2738.9	2719.7	2705.4
1891.7	37.5°	1962.0	2002.9	2073.2	2202.8	2239.6	2477.1	2668.6	2658.6	2641.9
1738.7	40°	1773.8	1883.4	1991.2	2114.2	2152.6	2314.9	2583.3	2587.5	2564.9
1575.6	42.5°	1662.6	1737.0	1905.9	1988.7	2092.4	2210.4	2500.5	2507.2	2491.3
1492.8	45°	1532.1	1614.9	1733.7	1884.2	2025.5	2066.5	2354.2	2424.4	2411.1
1328.1	47.5°	1412.5	1479.4	1624.9	1777.1	1933.5	1927.7	2186.1	2318.2	2299.8
1201.8	50°	1242.7	1359.8	1428.4	1568.1	1801.4	1817.3	2007.1	2193.6	2178.6
1021.1	52.5°	1047.9	1195.1	1326.4	1454.3	1667.6	1705.2	1840.7	2066.5	2056.5
780.3	55°	915.8	1022.8	1170.8	1273.7	1505.3	1605.7	1716.1	1945.2	1940.2
641.4	57.5°	651.5	858.0	980.1	1124.0	1246.1	1427.6	1509.5	1698.5	1651.7
355.4	60°	441.6	538.6	687.4	842.2	924.1	1105.6	1181.7	1333.1	1320.5
212.4	62.5°	233.3	322.8	429.0	506.8	566.2	742.6	774.4	937.5	933.3
85.3	65°	102.9	136.3	232.5	272.6	333.7	415.6	443.2	501.8	487.6
41.8	67.5°	53.5	81.1	131.3	161.4	203.2	234.2	256.7	275.1	286.9
27.6	70°	32.6	59.4	81.1	112.1	139.7	164.8	182.3	207.4	222.5
14.2	72.5°	24.3	37.6	56.0	86.1	101.2	130.5	148.0	166.4	179.8
11.7	75°	13.4	25.1	45.2	67.7	81.1	106.2	122.1	134.6	138.8
6.7	77.5°	8.4	19.2	37.6	52.7	63.6	86.1	82.0	93.7	103.7
5.0	80°	5.9	14.2	29.3	43.5	44.3	55.2	65.2	75.3	82.0
3.3	82.5°	4.2	11.7	21.7	33.5	29.3	42.7	51.0	58.5	42.7
2.5	85°	3.3	8.4	10.9	20.1	16.7	30.1	25.9	25.1	16.7
1.7	87.5°	2.5	4.2	7.5	9.2	6.7	6.7	8.4	10.0	8.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2455.4
2394.3
2411.1
2425.3
2446.2
2488.8
2560.8
2655.3
2759.0
2845.9
2891.9
2839.3
2786.6
2737.2
2685.4
2625.2
2559.9
2489.7
2412.7
2313.2
2181.1
2063.2
1946.1
1646.7
1321.4
934.2
481.7
286.9
223.3
182.3
136.3
105.4
82.8
30.9
16.7
8.4
0.0

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