

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: P638506

Luminaire Tested: **IFLD-S-SA2A-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

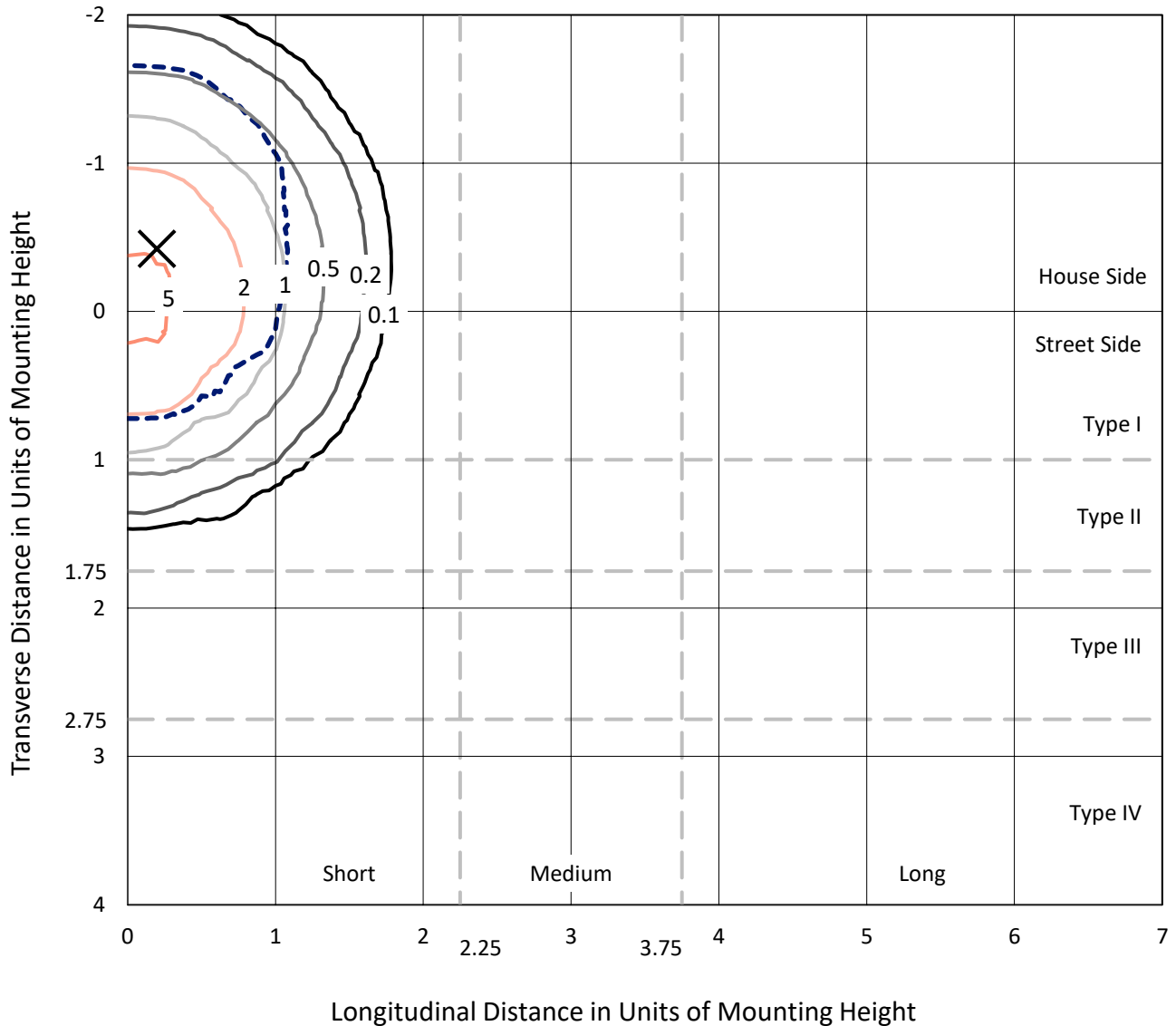
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

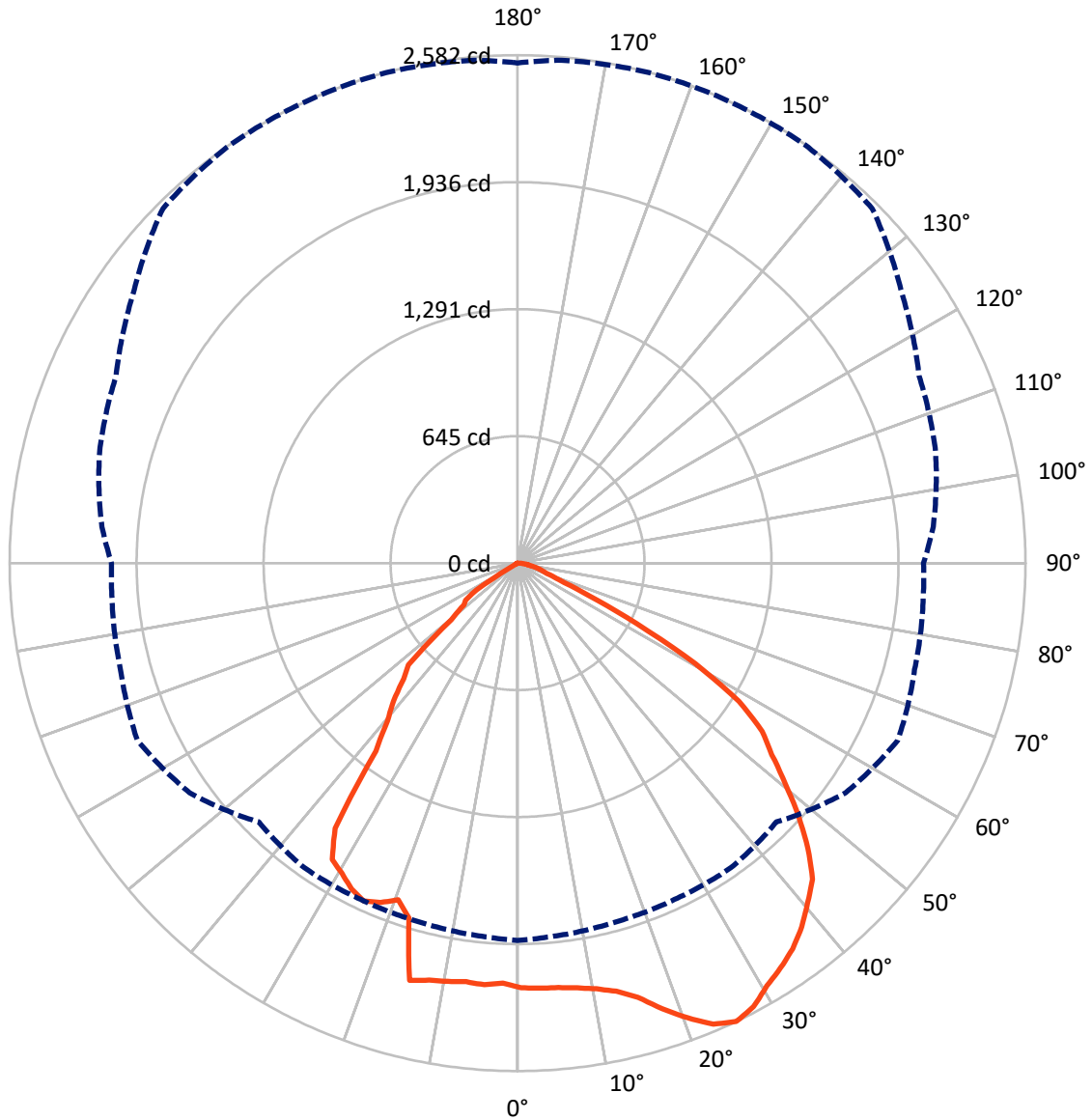
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	3096.7	0.0	3096.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	1905.2	0.0	1905.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	5002.0	0.0	5002.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	4.1
10°-20°	632.2	12.6
20°-30°	999.5	20.0
30°-40°	1129.1	22.6
40°-50°	1057.4	21.1
50°-60°	729.0	14.6
60°-70°	195.9	3.9
70°-80°	40.8	0.8
80°-90°	11.0	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°	5002.0	100.0
0°-180°	5002.0	100.0

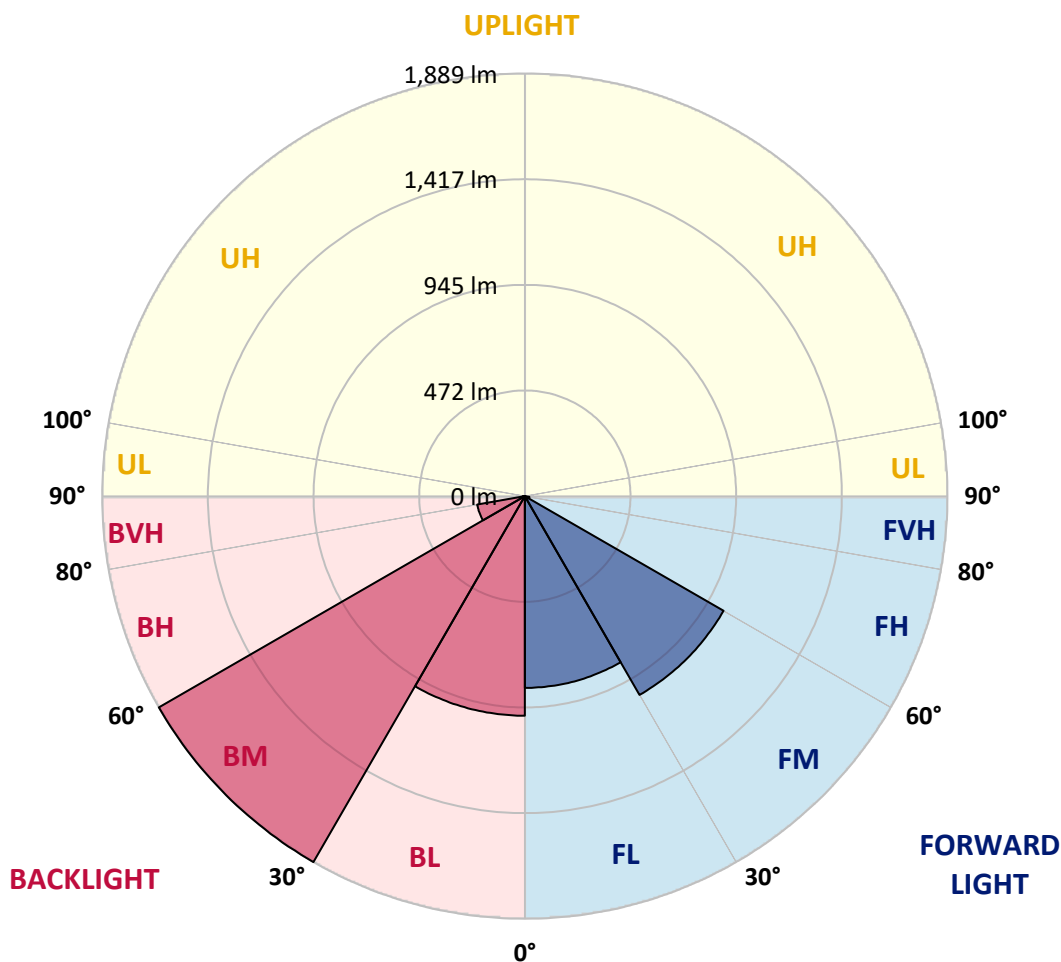


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.2	17.1			
FM (30°-60°)	1026.0	20.5			
FH (60°-80°)	20.6	0.4			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	981.6	19.6	B2/1000		
BM (30°-60°)	1889.4	37.8	B2/2500		
BH (60°-80°)	216.1	4.3	B1/500		G1/500
BVH (80°-90°)	9.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2.5°	2167.8	2153.9	2140.6	2136.2	2154.6	2174.4	2161.9	2162.7	2158.3	2166.3
5°	2184.0	2164.9	2156.1	2149.4	2152.4	2173.0	2155.3	2161.9	2154.6	2164.1
7.5°	2178.1	2164.9	2156.1	2143.6	2153.1	2177.4	2160.5	2161.2	2157.5	2166.3
10°	2174.4	2164.9	2153.9	2155.3	2166.3	2186.9	2173.7	2181.1	2175.9	2181.1
12.5°	2183.3	2173.0	2167.1	2167.1	2176.6	2200.2	2193.5	2200.2	2198.0	2202.4
15°	2100.2	2109.7	2165.6	2190.6	2209.7	2233.2	2230.3	2236.9	2238.4	2245.0
17.5°	1771.6	1762.0	1757.6	1886.3	2228.1	2300.9	2298.7	2297.9	2290.6	2285.4
20°	1815.0	1811.3	1806.1	1815.7	1853.9	2336.2	2350.9	2260.4	2234.0	2231.8
22.5°	1884.1	1878.2	1859.1	1859.8	1871.6	2031.1	2278.1	2195.8	2186.9	2181.8
25°	1917.9	1906.1	1890.7	1886.3	1890.0	1860.5	2034.8	2132.5	2089.2	2069.3
27.5°	1858.3	1859.1	1846.6	1858.3	1844.4	1712.1	1637.8	2009.0	2007.6	1998.7
30°	1813.5	1811.3	1796.6	1811.3	1715.0	1567.2	1535.6	1873.8	1858.3	1846.6
32.5°	1676.0	1677.5	1720.1	1777.5	1619.4	1502.6	1407.0	1673.8	1820.1	1813.5
35°	1199.0	1201.9	1353.3	1636.3	1474.6	1373.9	1366.6	1446.7	1759.8	1762.8
37.5°	1154.1	1154.1	1150.4	1196.7	1360.7	1321.7	1336.4	1328.3	1612.1	1619.4
40°	1121.8	1115.2	1110.0	1037.2	946.1	1285.0	1295.3	1258.5	1523.9	1525.3
42.5°	1082.8	1075.5	1076.9	942.4	846.8	1193.8	1165.1	1115.9	1376.8	1378.3
45°	1011.5	1024.0	1032.8	824.8	817.4	852.7	1074.7	1043.8	1277.6	1304.8
47.5°	514.6	525.6	806.4	758.6	775.5	757.9	907.9	908.6	1063.0	1153.4
50°	466.8	463.9	464.6	442.5	716.0	613.1	656.4	832.9	851.2	980.6
52.5°	435.2	434.4	389.6	346.2	449.9	539.6	476.3	602.8	632.9	830.7
55°	322.0	345.5	307.3	325.7	281.5	432.2	430.0	544.0	554.3	666.0
57.5°	2.9	3.7	8.8	247.7	194.8	216.1	297.0	371.2	389.6	519.0
60°	0.7	1.5	3.7	7.4	126.4	133.1	198.5	214.7	241.8	309.5
62.5°	0.0	0.0	1.5	3.7	6.6	54.4	63.2	69.1	106.6	158.0
65°	0.0	0.0	0.7	2.2	3.7	8.8	15.4	32.3	46.3	57.3
67.5°	0.0	0.0	0.7	1.5	2.9	4.4	8.8	12.5	19.8	33.8
70°	0.0	0.0	0.7	1.5	2.2	3.7	5.9	8.8	11.8	16.9
72.5°	0.0	0.0	0.7	1.5	1.5	4.4	4.4	6.6	8.8	11.0
75°	0.0	0.0	0.7	0.7	1.5	2.9	4.4	5.1	5.9	8.8
77.5°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	5.9	5.1	5.1
80°	0.0	0.0	0.7	2.2	2.2	3.7	4.4	5.9	3.7	3.7
82.5°	0.0	0.0	0.7	2.9	2.2	7.4	7.4	8.1	2.9	2.9
85°	0.0	0.0	2.2	1.5	4.4	7.4	6.6	4.4	3.7	2.2
87.5°	0.0	0.0	0.7	0.7	1.5	2.2	5.1	4.4	1.5	1.5
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2158.3	0°	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3	2158.3
2145.0	2.5°	2174.4	2164.9	2184.7	2182.5	2173.0	2168.6	2163.4	2159.0	2126.7
2146.5	5°	2175.2	2160.5	2184.7	2180.3	2178.8	2171.5	2167.1	2173.7	2144.3
2152.4	7.5°	2175.2	2160.5	2186.9	2188.4	2186.2	2180.3	2179.6	2184.0	2159.7
2162.7	10°	2189.9	2184.0	2206.0	2208.3	2205.3	2203.8	2200.2	2197.2	2171.5
2198.0	12.5°	2220.7	2209.0	2234.0	2240.6	2238.4	2242.1	2233.2	2237.7	2211.2
2234.0	15°	2258.2	2259.0	2278.1	2292.8	2291.3	2303.1	2289.8	2301.6	2282.5
2275.1	17.5°	2315.6	2323.7	2350.9	2372.9	2381.0	2389.8	2381.0	2384.7	2357.5
2229.6	20°	2255.3	2285.4	2416.3	2456.7	2473.6	2481.7	2467.0	2471.4	2444.2
2173.7	22.5°	2200.9	2239.9	2356.0	2482.4	2534.6	2550.8	2545.7	2544.9	2534.6
2063.4	25°	2120.8	2199.4	2251.6	2385.4	2549.3	2578.7	2581.7	2580.9	2565.5
1995.8	27.5°	2022.3	2039.9	2175.2	2256.8	2446.4	2558.2	2553.7	2532.4	2511.8
1855.4	30°	1896.6	1976.7	2037.7	2167.8	2313.4	2494.9	2494.9	2478.8	2457.5
1805.4	32.5°	1832.6	1936.3	1992.9	2039.9	2164.1	2424.4	2453.8	2436.9	2420.0
1766.5	35°	1798.8	1814.2	1946.6	1989.2	2094.3	2288.4	2407.5	2390.6	2378.1
1662.8	37.5°	1724.6	1760.6	1822.3	1936.3	1968.6	2177.4	2345.7	2336.9	2322.2
1528.3	40°	1559.2	1655.5	1750.3	1858.3	1892.2	2034.8	2270.7	2274.4	2254.6
1384.9	42.5°	1461.4	1526.8	1675.3	1748.1	1839.2	1942.9	2198.0	2203.8	2189.9
1312.2	45°	1346.7	1419.5	1523.9	1656.2	1780.4	1816.4	2069.3	2131.1	2119.3
1167.3	47.5°	1241.6	1300.4	1428.3	1562.1	1699.6	1694.4	1921.6	2037.7	2021.5
1056.3	50°	1092.4	1195.3	1255.6	1378.3	1583.4	1597.4	1764.2	1928.2	1914.9
897.6	52.5°	921.1	1050.5	1165.9	1278.3	1465.8	1498.9	1618.0	1816.4	1807.6
685.9	55°	804.9	899.0	1029.1	1119.6	1323.2	1411.4	1508.4	1709.9	1705.4
563.8	57.5°	572.6	754.2	861.5	988.0	1095.3	1254.8	1326.9	1493.0	1451.8
312.4	60°	388.1	473.4	604.3	740.2	812.3	971.8	1038.7	1171.8	1160.7
186.7	62.5°	205.1	283.7	377.1	445.5	497.7	652.8	680.7	824.1	820.4
75.0	65°	90.4	119.8	204.4	239.6	293.3	365.3	389.6	441.1	428.6
36.8	67.5°	47.0	71.3	115.4	141.9	178.6	205.8	225.7	241.8	252.1
24.3	70°	28.7	52.2	71.3	98.5	122.8	144.8	160.3	182.3	195.5
12.5	72.5°	21.3	33.1	49.3	75.7	88.9	114.7	130.1	146.3	158.0
10.3	75°	11.8	22.1	39.7	59.5	71.3	93.4	107.3	118.4	122.0
5.9	77.5°	7.4	16.9	33.1	46.3	55.9	75.7	72.0	82.3	91.2
4.4	80°	5.1	12.5	25.7	38.2	39.0	48.5	57.3	66.2	72.0
2.9	82.5°	3.7	10.3	19.1	29.4	25.7	37.5	44.8	51.5	37.5
2.2	85°	2.9	7.4	9.6	17.6	14.7	26.5	22.8	22.1	14.7
1.5	87.5°	2.2	3.7	6.6	8.1	5.9	5.9	7.4	8.8	7.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2158.3
2104.6
2119.3
2131.8
2150.2
2187.7
2250.9
2334.0
2425.1
2501.6
2542.0
2495.7
2449.4
2406.0
2360.4
2307.5
2250.2
2188.4
2120.8
2033.3
1917.1
1813.5
1710.6
1447.4
1161.5
821.1
423.4
252.1
196.3
160.3
119.8
92.6
72.8
27.2
14.7
7.4
0.0

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