

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: P477921

Luminaire Tested: **IFLD-S-SA2E-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

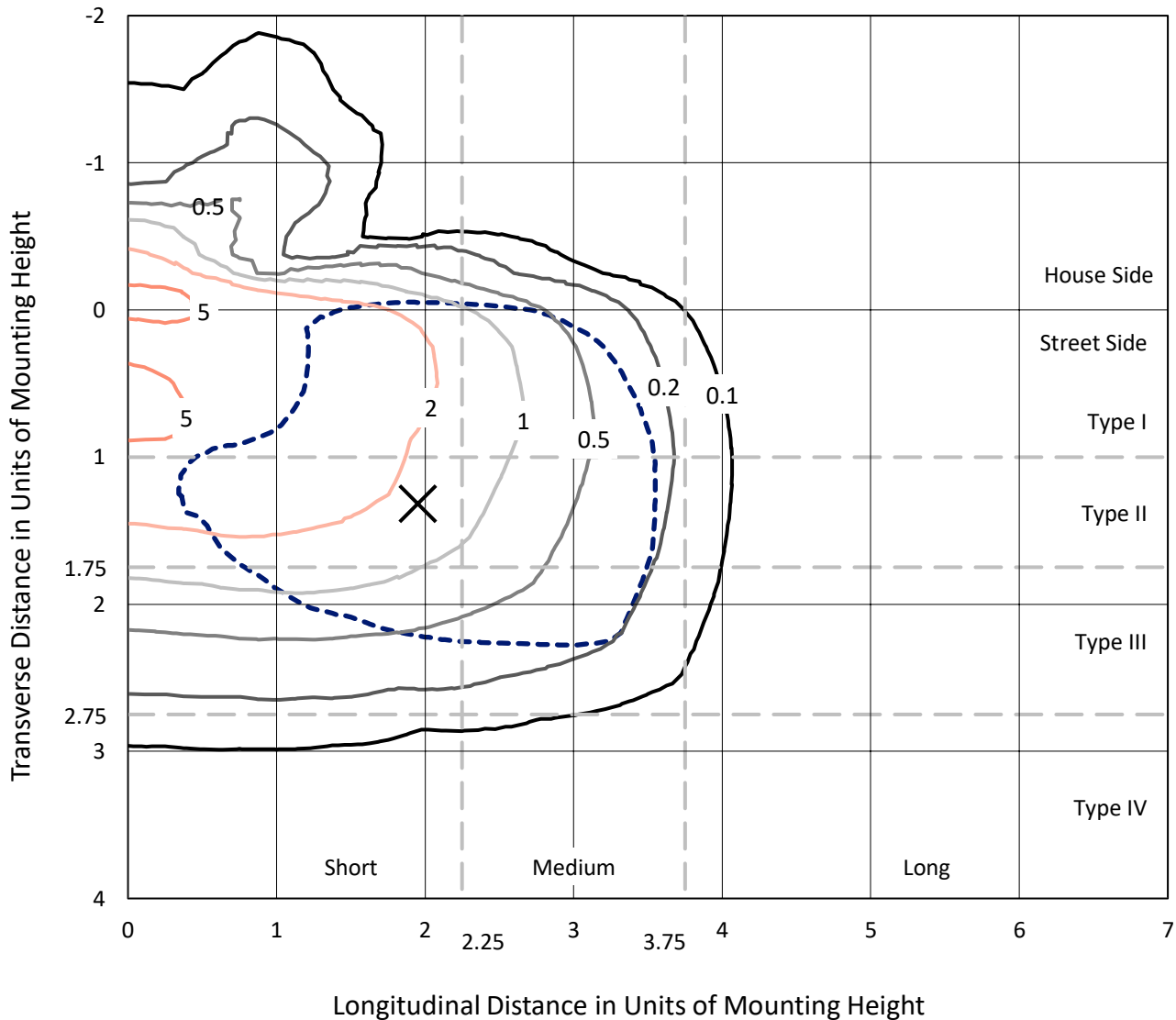
Lumens per Lamp: N/A
Luminaire Lumens: 14127.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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: 24 FT

REPORT NUMBER: P477921
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

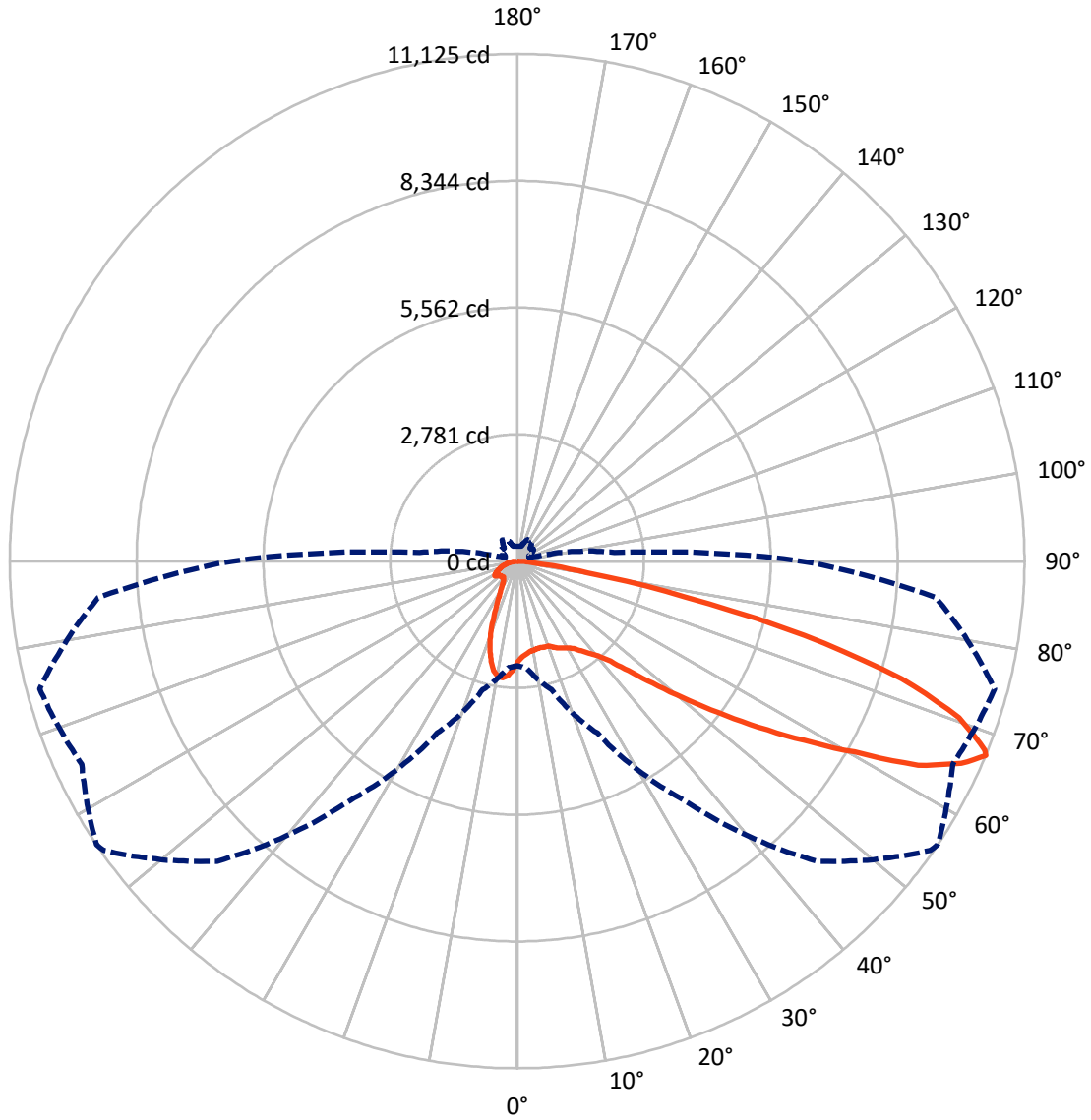
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

REPORT NUMBER: P477921
CATALOG NUMBER: IFLD-S-SA2E-830-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3R

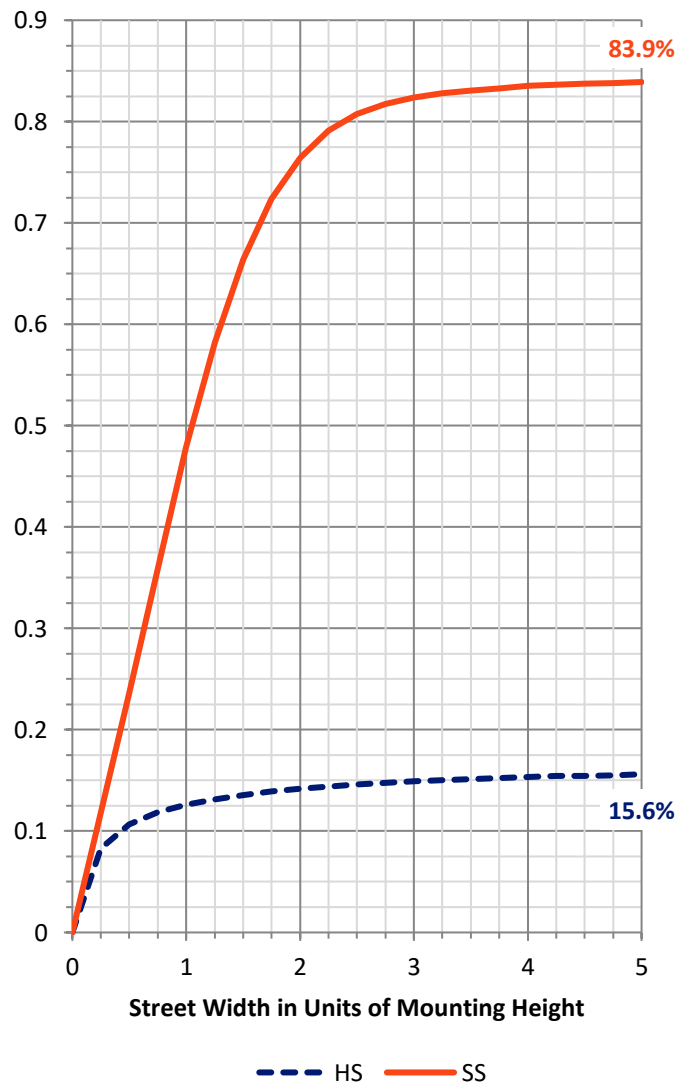
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.5	0.0	2236.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11890.7	0.0	11890.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	14127.2	0.0	14127.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.5
10°-20°	577.7	4.1
20°-30°	906.0	6.4
30°-40°	1293.4	9.2
40°-50°	1952.1	13.8
50°-60°	3107.4	22.0
60°-70°	3972.5	28.1
70°-80°	1936.9	13.7
80°-90°	169.4	1.2
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°	14127.2	100.0
0°-180°	14127.2	100.0

Coefficient of Utilization

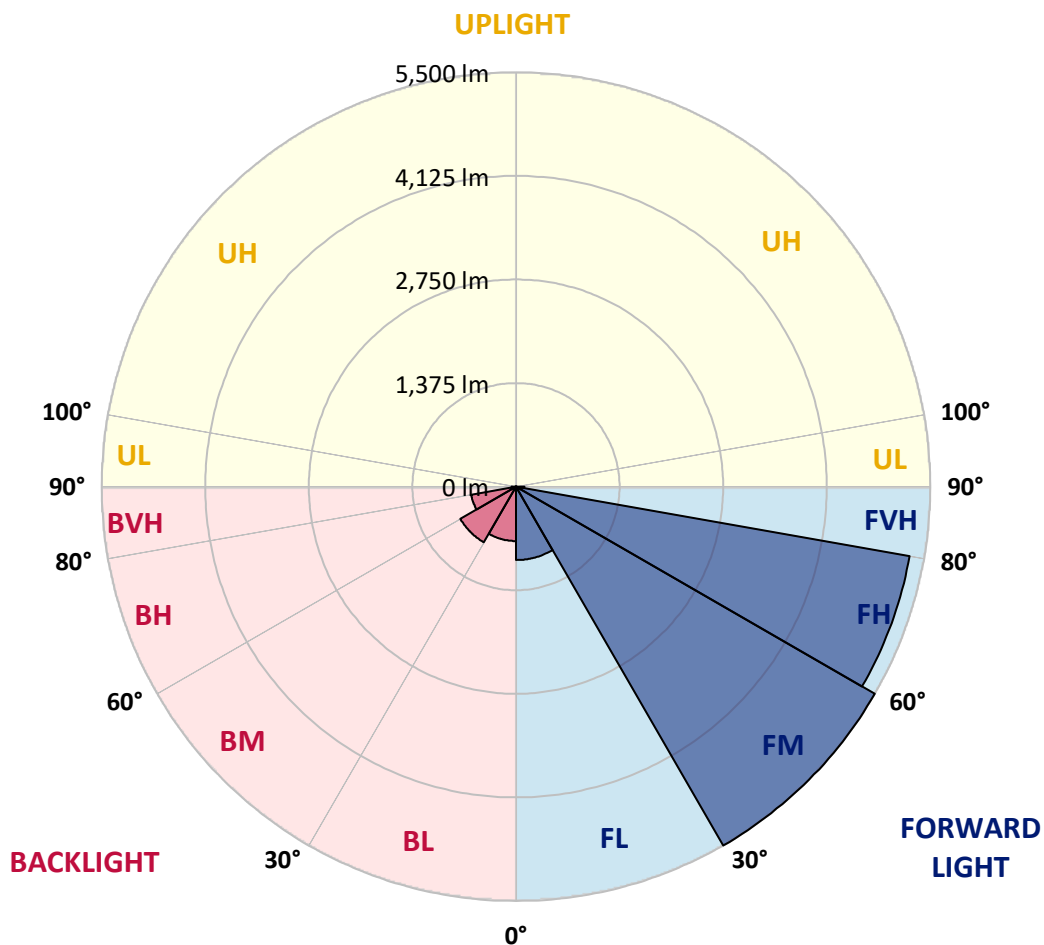


REPORT NUMBER: P477921
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.5	6.9			
FM (30°-60°)	5499.6	38.9			
FH (60°-80°)	5305.1	37.6			G3/7500
FVH (80°-90°)	112.5	0.8			G2/225
BL (0°-30°)	722.0	5.1	B2/1000		
BM (30°-60°)	853.2	6.0	B1/1000		
BH (60°-80°)	604.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.4			G1/100
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





REPORT NUMBER: P477921
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2019.2	2011.0	2020.9	2011.0	2055.7	2082.2	2090.5	2102.1	2143.5	2183.2
5°	1934.8	1898.3	1938.1	1951.3	1954.6	1999.4	2045.8	2054.0	2075.6	2140.2
7.5°	1794.0	1835.4	1820.5	1860.2	1901.6	1946.4	2022.6	2001.0	2080.5	2141.8
10°	1764.2	1767.5	1784.0	1798.9	1835.4	1893.4	1999.4	1986.1	2067.3	2198.1
12.5°	1794.0	1794.0	1789.0	1777.4	1818.8	1875.1	1959.6	1966.2	2093.8	2214.7
15°	1898.3	1918.2	1865.2	1873.5	1856.9	1875.1	1949.7	1964.6	2103.7	2228.0
17.5°	2153.4	2146.8	2083.9	1996.1	1923.2	1911.6	1962.9	1979.5	2093.8	2266.1
20°	2401.9	2388.6	2279.3	2188.2	2044.1	1976.2	1984.5	1986.1	2110.4	2290.9
22.5°	2678.5	2713.3	2594.0	2408.5	2229.6	2060.7	2027.5	2054.0	2148.5	2304.2
25°	3112.5	3038.0	2935.3	2691.8	2403.6	2191.5	2098.8	2112.0	2184.9	2337.3
27.5°	3425.6	3395.8	3235.1	3038.0	2647.1	2294.2	2136.9	2161.7	2251.2	2335.6
30°	3727.1	3727.1	3629.3	3334.5	2903.8	2466.5	2218.0	2206.4	2219.7	2332.3
32.5°	4079.9	4031.9	3891.1	3695.6	3226.8	2623.9	2282.6	2285.9	2285.9	2393.6
35°	4265.4	4343.3	4248.9	3930.8	3473.6	2885.6	2438.3	2413.5	2395.3	2461.5
37.5°	4537.1	4583.5	4484.1	4296.9	3780.1	3097.6	2575.8	2555.9	2449.9	2514.5
40°	4701.1	4692.8	4689.5	4603.4	4185.9	3347.7	2777.9	2726.6	2584.1	2701.7
42.5°	4793.9	4777.3	4981.0	4928.0	4568.6	3715.5	3031.4	3003.2	2845.8	3034.7
45°	4898.2	5020.8	5188.1	5337.2	5014.2	4232.3	3460.4	3420.6	3279.8	3520.0
47.5°	4989.3	5140.1	5353.7	5512.8	5416.7	4793.9	3990.5	4000.4	3907.6	4154.4
50°	5141.7	5156.6	5446.5	5767.9	5842.4	5312.3	4702.7	4686.2	4644.8	4991.0
52.5°	5095.3	5140.1	5506.1	5916.9	6039.5	5860.6	5468.0	5517.7	5463.1	5898.7
55°	4340.0	4474.2	5469.7	6074.3	6506.7	6480.1	6452.0	6418.9	6415.5	6919.1
57.5°	3997.1	4106.4	4818.7	6248.2	7006.9	7202.4	7384.6	7421.0	7419.4	8027.3
60°	3771.8	3884.4	4555.3	6153.8	7432.6	8148.2	8497.7	8502.7	8492.8	9211.7
62.5°	3331.2	3440.5	4099.8	5637.0	7550.2	9021.2	9799.7	9864.3	9408.8	10232.1
65°	2801.1	2890.6	3472.0	4846.9	7237.2	9576.1	10778.7	10702.5	10180.7	10815.2
67°	2290.9	2350.5	2917.1	4161.1	6418.9	9309.4	11062.0	11124.9	10536.9	10840.0
67.5°	2145.1	2199.8	2734.8	3927.5	6107.4	9107.3	11071.9	11062.0	10543.5	10845.0
70°	1489.2	1512.4	1863.5	2701.7	4499.0	7694.3	10263.5	10286.7	10101.2	10256.9
72.5°	987.3	1022.0	1245.7	1702.9	2652.0	5598.9	8578.9	8827.4	8709.8	8409.9
75°	636.1	656.0	815.0	1013.8	1305.3	3188.7	6337.7	6503.3	6233.3	5201.3
77.5°	356.1	377.7	492.0	616.2	636.1	1326.8	3559.8	3765.2	3190.4	2209.7
80°	222.0	250.1	371.1	366.1	303.1	487.0	1467.6	1572.0	1275.5	760.3
82.5°	167.3	188.8	286.6	256.8	170.6	217.0	550.0	589.7	467.1	293.2
85°	114.3	144.1	207.1	159.0	89.4	104.4	218.7	235.2	213.7	142.5
87.5°	41.4	61.3	107.7	79.5	39.8	31.5	71.2	79.5	76.2	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477921
 CATALOG NUMBER: IFLD-S-SA2E-830-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2198.1	0°	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1	2198.1
2218.0	2.5°	2249.5	2272.7	2284.3	2352.2	2380.4	2375.4	2382.0	2392.0	2401.9	2415.1
2246.2	5°	2267.7	2338.9	2377.0	2456.6	2509.6	2486.4	2516.2	2507.9	2496.3	2494.7
2297.5	7.5°	2327.4	2418.5	2532.8	2554.3	2577.5	2519.5	2469.8	2401.9	2385.3	2327.4
2340.6	10°	2433.4	2507.9	2647.1	2655.3	2552.6	2403.6	2292.6	2151.8	2150.1	2065.6
2406.9	12.5°	2534.4	2618.9	2731.5	2683.5	2438.3	2234.6	2054.0	1900.0	1835.4	1792.3
2446.6	15°	2597.4	2736.5	2796.1	2589.1	2237.9	1962.9	1729.4	1563.7	1497.5	1466.0
2496.3	17.5°	2655.3	2849.1	2822.6	2423.4	1991.1	1683.0	1404.7	1260.6	1242.4	1219.2
2575.8	20°	2734.8	2890.6	2728.2	2208.1	1711.1	1321.9	1144.6	1075.1	1091.6	1101.6
2584.1	22.5°	2809.4	2912.1	2609.0	1972.9	1351.7	1046.9	959.1	974.0	998.9	1032.0
2604.0	25°	2842.5	2946.9	2448.3	1648.2	1028.7	881.2	861.4	886.2	927.6	929.3
2632.1	27.5°	2864.1	2922.0	2254.5	1331.8	813.3	770.3	800.1	818.3	823.3	843.1
2691.8	30°	2902.2	2870.7	2009.3	952.5	682.5	684.1	722.2	722.2	722.2	737.1
2751.4	32.5°	2968.4	2835.9	1722.7	695.7	588.1	641.1	631.1	627.8	621.2	603.0
2827.6	35°	3009.8	2741.5	1360.0	515.2	528.4	588.1	584.7	533.4	447.2	404.2
3021.4	37.5°	3096.0	2693.4	1000.5	397.6	493.6	561.5	543.3	419.1	324.7	283.3
3261.6	40°	3281.5	2662.0	692.4	347.9	470.4	548.3	485.3	357.8	248.5	175.6
3632.7	42.5°	3508.4	2663.6	470.4	328.0	472.1	576.5	467.1	306.4	175.6	140.8
4127.9	45°	3813.2	2638.8	323.0	328.0	501.9	622.8	478.7	278.3	170.6	178.9
4749.1	47.5°	4141.2	2660.3	240.2	298.2	506.9	624.5	437.3	273.3	164.0	207.1
5425.0	50°	4523.8	2681.8	198.8	275.0	508.5	604.6	402.5	266.7	170.6	218.7
6200.2	52.5°	4918.1	2749.8	169.0	260.1	528.4	596.3	402.5	276.6	170.6	190.5
7187.5	55°	5506.1	2923.7	243.5	324.7	601.3	651.0	495.3	387.6	238.5	245.2
8133.3	57.5°	6155.5	3102.6	271.7	341.2	617.9	586.4	533.4	427.4	251.8	253.4
8868.8	60°	6582.8	3109.2	270.0	333.0	578.1	506.9	521.8	450.6	256.8	217.0
9324.3	62.5°	6753.5	2907.1	281.6	333.0	538.4	473.8	535.0	485.3	265.0	271.7
9453.5	65°	6559.7	2489.7	271.7	298.2	473.8	424.1	538.4	492.0	289.9	273.3
9221.6	67°	6256.5	2145.1	276.6	283.3	440.6	402.5	566.5	516.8	336.3	328.0
9100.7	67.5°	6170.4	2054.0	275.0	275.0	429.0	395.9	573.1	516.8	342.9	339.6
8032.3	70°	5438.2	1664.8	281.6	271.7	379.3	376.0	609.6	545.0	394.2	397.6
5900.4	72.5°	4139.5	1262.2	279.9	271.7	329.6	359.5	614.6	563.2	429.0	397.6
3304.7	75°	2352.2	755.4	246.8	236.9	260.1	313.1	574.8	536.7	417.4	356.1
1320.2	77.5°	972.4	389.3	226.9	213.7	215.3	255.1	478.7	500.3	397.6	303.1
440.6	80°	362.8	233.6	182.2	170.6	165.6	187.2	341.2	399.2	339.6	248.5
193.8	82.5°	188.8	145.8	124.2	124.2	112.6	119.3	183.9	265.0	256.8	170.6
77.9	85°	96.1	82.8	71.2	69.6	62.9	56.3	92.8	157.4	147.4	94.4
34.8	87.5°	51.4	46.4	29.8	28.2	23.2	14.9	16.6	31.5	51.4	41.4
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°
2198.1
2428.4
2509.6
2347.2
2062.3
1782.4
1459.4
1230.8
1090.0
1013.8
945.8
861.4
753.7
593.0
424.1
281.6
170.6
137.5
182.2
230.3
253.4
195.5
258.4
245.2
223.6
275.0
268.3
323.0
333.0
367.7
352.8
318.0
286.6
226.9
134.2
77.9
29.8
0.0

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