

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: P477607

Luminaire Tested: **IFLD-S-SA2C-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

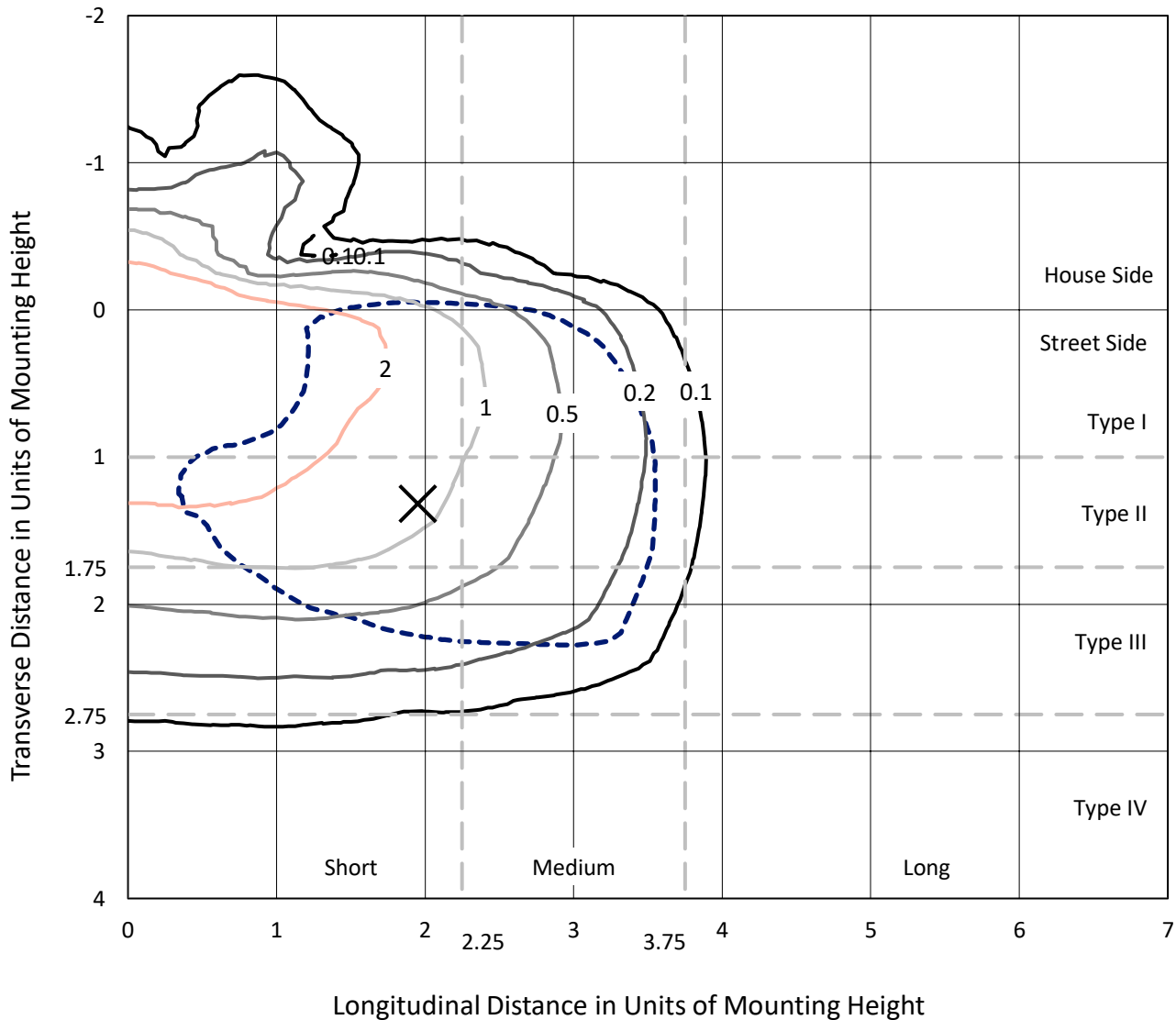
Lumens per Lamp: N/A
Luminaire Lumens: 10284.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

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Iso-Footcandle Lines of Horizontal Illumination

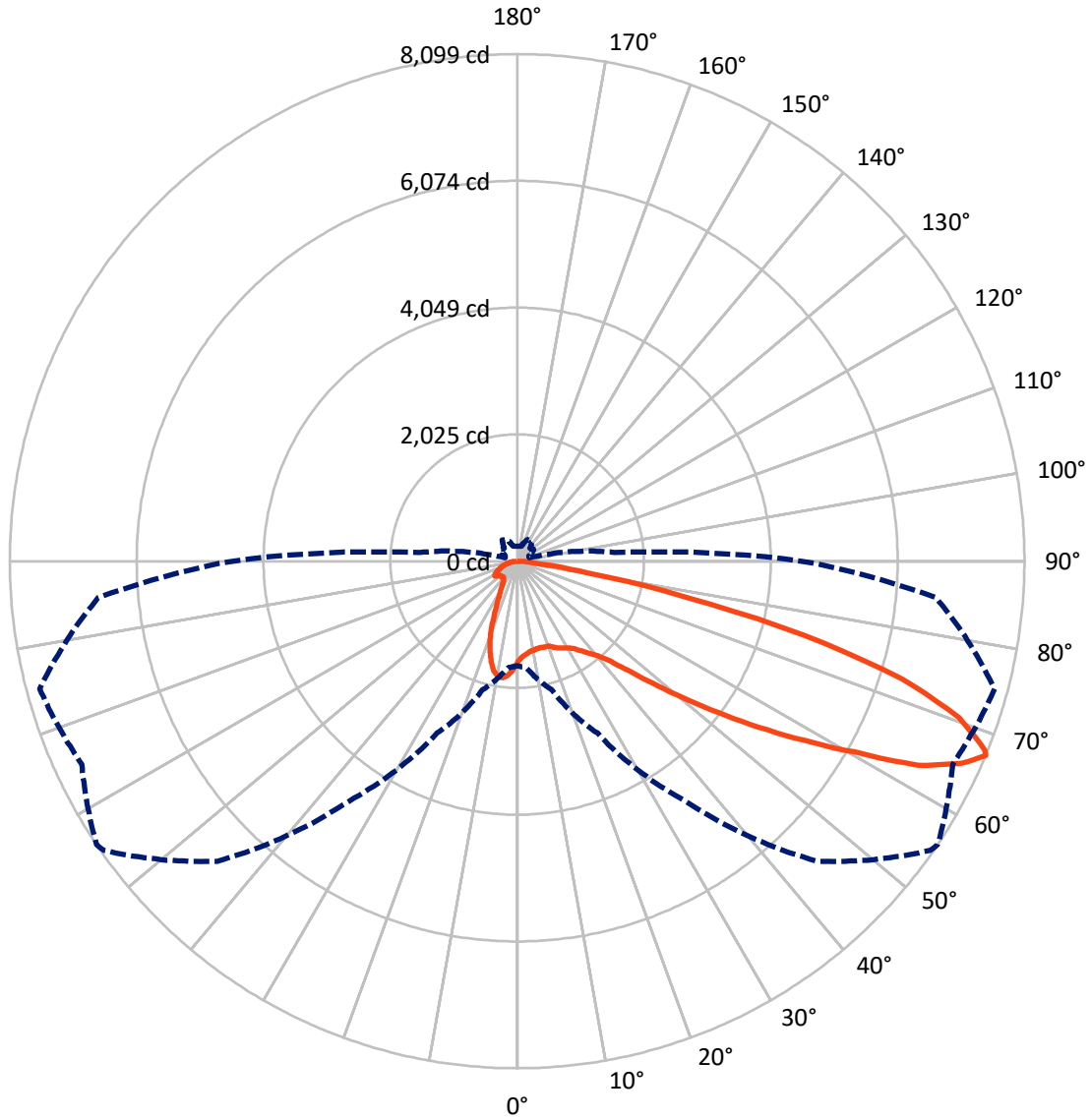
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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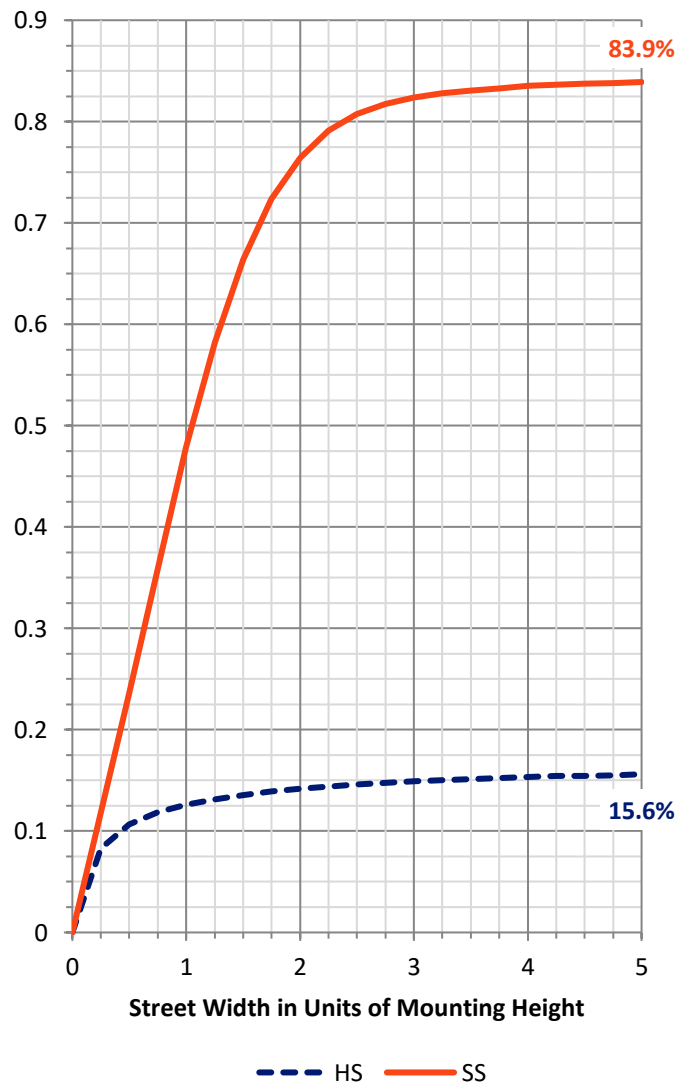
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.1	0.0	1628.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	8656.1	0.0	8656.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	10284.3	0.0	10284.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.5
10°-20°	420.6	4.1
20°-30°	659.6	6.4
30°-40°	941.5	9.2
40°-50°	1421.1	13.8
50°-60°	2262.1	22.0
60°-70°	2891.9	28.1
70°-80°	1410.0	13.7
80°-90°	123.3	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°	10284.3	100.0
0°-180°	10284.3	100.0

Coefficient of Utilization



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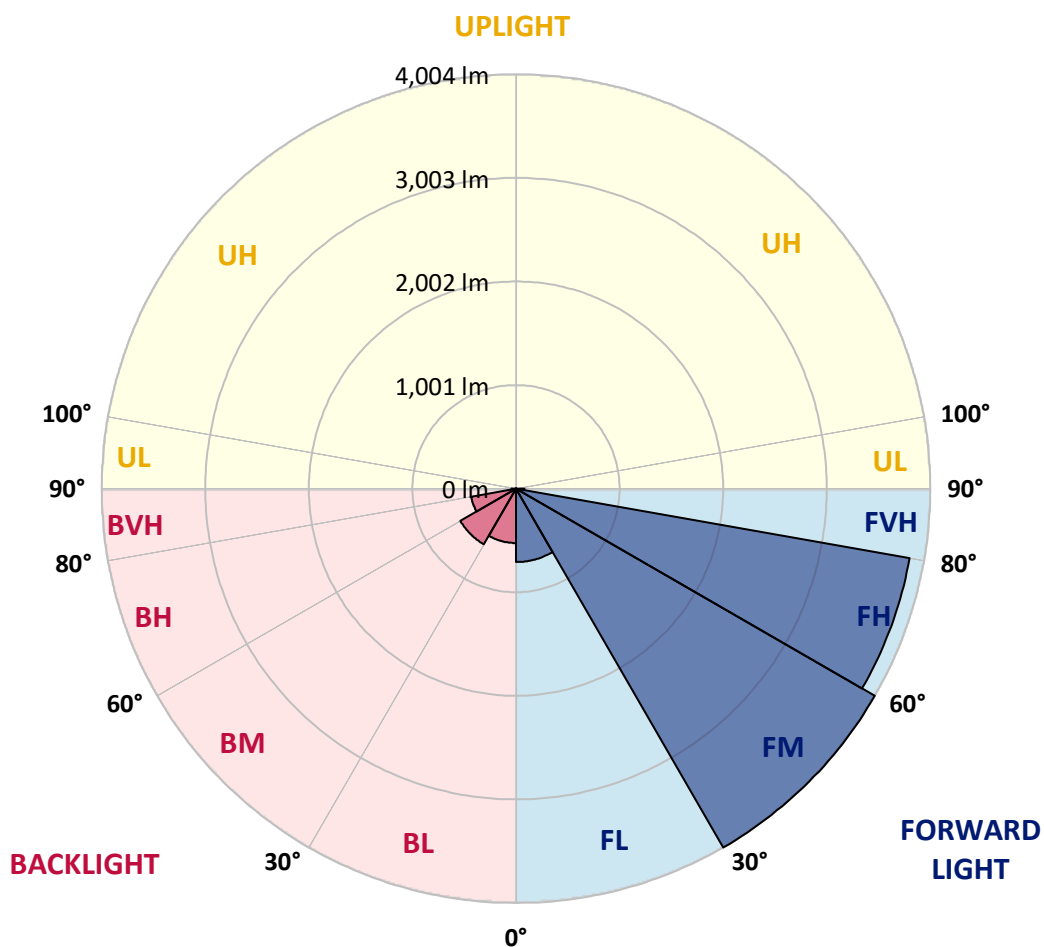
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.7	6.9			
FM (30°-60°)	4003.6	38.9			
FH (60°-80°)	3862.0	37.6			G2/5000
FVH (80°-90°)	81.9	0.8			G1/100
BL (0°-30°)	525.6	5.1	B2/1000		
BM (30°-60°)	621.1	6.0	B1/1000		
BH (60°-80°)	439.9	4.3	B1/500		G1/500
BVH (80°-90°)	41.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2
2.5°	1470.0	1463.9	1471.2	1463.9	1496.5	1515.8	1521.8	1530.3	1560.4	1589.3
5°	1408.5	1381.9	1410.9	1420.5	1422.9	1455.5	1489.3	1495.3	1511.0	1558.0
7.5°	1306.0	1336.1	1325.3	1354.2	1384.3	1416.9	1472.4	1456.7	1514.6	1559.2
10°	1284.3	1286.7	1298.7	1309.6	1336.1	1378.3	1455.5	1445.8	1504.9	1600.2
12.5°	1306.0	1306.0	1302.3	1293.9	1324.1	1365.1	1426.6	1431.4	1524.2	1612.3
15°	1381.9	1396.4	1357.8	1363.8	1351.8	1365.1	1419.3	1430.2	1531.5	1621.9
17.5°	1567.6	1562.8	1517.0	1453.1	1400.0	1391.6	1429.0	1441.0	1524.2	1649.6
20°	1748.5	1738.9	1659.3	1593.0	1488.1	1438.6	1444.6	1445.8	1536.3	1667.7
22.5°	1949.9	1975.2	1888.4	1753.3	1623.1	1500.1	1476.0	1495.3	1564.0	1677.4
25°	2265.8	2211.6	2136.8	1959.6	1749.7	1595.4	1527.8	1537.5	1590.6	1701.5
27.5°	2493.8	2472.1	2355.1	2211.6	1927.0	1670.1	1555.6	1573.7	1638.8	1700.3
30°	2713.2	2713.2	2642.1	2427.4	2113.9	1795.6	1614.7	1606.2	1615.9	1697.9
32.5°	2970.1	2935.1	2832.6	2690.3	2349.1	1910.1	1661.7	1664.1	1664.1	1742.5
35°	3105.1	3161.8	3093.1	2861.6	2528.7	2100.6	1775.1	1757.0	1743.7	1791.9
37.5°	3302.9	3336.7	3264.3	3128.1	2751.8	2255.0	1875.1	1860.7	1783.5	1830.5
40°	3422.3	3416.3	3413.8	3351.1	3047.3	2437.1	2022.3	1984.9	1881.2	1966.8
42.5°	3489.8	3477.8	3626.1	3587.5	3325.8	2704.8	2206.8	2186.3	2071.7	2209.2
45°	3565.8	3655.0	3776.8	3885.3	3650.2	3081.0	2519.1	2490.1	2387.6	2562.5
47.5°	3632.1	3741.8	3897.4	4013.2	3943.2	3489.8	2905.0	2912.2	2844.7	3024.3
50°	3743.0	3753.9	3964.9	4198.9	4253.1	3867.3	3423.5	3411.4	3381.3	3633.3
52.5°	3709.3	3741.8	4008.3	4307.4	4396.6	4266.4	3980.6	4016.8	3977.0	4294.1
55°	3159.4	3257.1	3981.8	4422.0	4736.7	4717.4	4696.9	4672.8	4670.4	5037.0
57.5°	2909.8	2989.4	3507.9	4548.6	5100.9	5243.2	5375.8	5402.3	5401.1	5843.7
60°	2745.8	2827.8	3316.2	4479.8	5410.8	5931.7	6186.2	6189.8	6182.5	6705.9
62.5°	2425.0	2504.6	2984.6	4103.6	5496.4	6567.2	7134.0	7181.0	6849.4	7448.7
65°	2039.1	2104.3	2527.5	3528.4	5268.5	6971.2	7846.7	7791.2	7411.3	7873.2
67°	1667.7	1711.1	2123.6	3029.2	4672.8	6777.0	8052.9	8098.7	7670.6	7891.3
67.5°	1561.6	1601.4	1990.9	2859.1	4446.1	6629.9	8060.1	8052.9	7675.4	7894.9
70°	1084.1	1101.0	1356.6	1966.8	3275.2	5601.3	7471.6	7488.5	7353.5	7466.8
72.5°	718.7	744.0	906.8	1239.6	1930.6	4075.9	6245.2	6426.1	6340.5	6122.2
75°	463.1	477.5	593.3	738.0	950.2	2321.3	4613.7	4734.3	4537.7	3786.5
77.5°	259.3	274.9	358.1	448.6	463.1	965.9	2591.4	2741.0	2322.5	1608.6
80°	161.6	182.1	270.1	266.5	220.7	354.5	1068.4	1144.4	928.5	553.5
82.5°	121.8	137.5	208.6	186.9	124.2	158.0	400.4	429.3	340.1	213.4
85°	83.2	104.9	150.7	115.8	65.1	76.0	159.2	171.2	155.6	103.7
87.5°	30.1	44.6	78.4	57.9	28.9	22.9	51.9	57.9	55.5	47.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1600.2	0°	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2	1600.2
1614.7	2.5°	1637.6	1654.5	1662.9	1712.3	1732.8	1729.2	1734.1	1741.3	1748.5	1758.2
1635.2	5°	1650.8	1702.7	1730.4	1788.3	1826.9	1810.0	1831.7	1825.7	1817.3	1816.1
1672.6	7.5°	1694.3	1760.6	1843.8	1859.5	1876.3	1834.1	1798.0	1748.5	1736.5	1694.3
1703.9	10°	1771.4	1825.7	1927.0	1933.0	1858.3	1749.7	1668.9	1566.4	1565.2	1503.7
1752.1	12.5°	1845.0	1906.5	1988.5	1953.5	1775.1	1626.7	1495.3	1383.1	1336.1	1304.8
1781.1	15°	1890.8	1992.1	2035.5	1884.8	1629.1	1429.0	1258.9	1138.3	1090.1	1067.2
1817.3	17.5°	1933.0	2074.1	2054.8	1764.2	1449.5	1225.2	1022.6	917.7	904.4	887.5
1875.1	20°	1990.9	2104.3	1986.1	1607.4	1245.7	962.3	833.3	782.6	794.7	801.9
1881.2	22.5°	2045.2	2119.9	1899.3	1436.2	984.0	762.1	698.2	709.1	727.1	751.3
1895.6	25°	2069.3	2145.3	1782.3	1199.8	748.9	641.5	627.1	645.1	675.3	676.5
1916.1	27.5°	2085.0	2127.2	1641.2	969.5	592.1	560.7	582.4	595.7	599.3	613.8
1959.6	30°	2112.7	2089.8	1462.7	693.4	496.8	498.0	525.8	525.8	525.8	536.6
2003.0	32.5°	2160.9	2064.5	1254.1	506.5	428.1	466.7	459.4	457.0	452.2	438.9
2058.4	35°	2191.1	1995.7	990.0	375.0	384.7	428.1	425.7	388.3	325.6	294.2
2199.5	37.5°	2253.8	1960.8	728.4	289.4	359.4	408.8	395.5	305.1	236.4	206.2
2374.4	40°	2388.8	1937.8	504.1	253.2	342.5	399.1	353.3	260.5	180.9	127.8
2644.5	42.5°	2554.1	1939.1	342.5	238.8	343.7	419.6	340.1	223.1	127.8	102.5
3005.1	45°	2775.9	1921.0	235.1	238.8	365.4	453.4	348.5	202.6	124.2	130.2
3457.3	47.5°	3014.7	1936.6	174.9	217.1	369.0	454.6	318.4	199.0	119.4	150.7
3949.3	50°	3293.3	1952.3	144.7	200.2	370.2	440.1	293.0	194.1	124.2	159.2
4513.6	52.5°	3580.3	2001.8	123.0	189.3	384.7	434.1	293.0	201.4	124.2	138.7
5232.3	55°	4008.3	2128.4	177.3	236.4	437.7	473.9	360.6	282.2	173.6	178.5
5920.9	57.5°	4481.0	2258.6	197.8	248.4	449.8	426.9	388.3	311.1	183.3	184.5
6456.3	60°	4792.2	2263.4	196.6	242.4	420.9	369.0	379.9	328.0	186.9	158.0
6787.9	62.5°	4916.4	2116.3	205.0	242.4	391.9	344.9	389.5	353.3	192.9	197.8
6882.0	65°	4775.3	1812.4	197.8	217.1	344.9	308.7	391.9	358.1	211.0	199.0
6713.1	67°	4554.6	1561.6	201.4	206.2	320.8	293.0	412.4	376.2	244.8	238.8
6625.1	67.5°	4491.9	1495.3	200.2	200.2	312.3	288.2	417.2	376.2	249.6	247.2
5847.3	70°	3958.9	1211.9	205.0	197.8	276.1	273.7	443.8	396.7	287.0	289.4
4295.3	72.5°	3013.5	918.9	203.8	197.8	240.0	261.7	447.4	410.0	312.3	289.4
2405.7	75°	1712.3	549.9	179.7	172.4	189.3	227.9	418.4	390.7	303.9	259.3
961.1	77.5°	707.9	283.4	165.2	155.6	156.8	185.7	348.5	364.2	289.4	220.7
320.8	80°	264.1	170.0	132.6	124.2	120.6	136.3	248.4	290.6	247.2	180.9
141.1	82.5°	137.5	106.1	90.4	90.4	82.0	86.8	133.9	192.9	186.9	124.2
56.7	85°	69.9	60.3	51.9	50.6	45.8	41.0	67.5	114.6	107.3	68.7
25.3	87.5°	37.4	33.8	21.7	20.5	16.9	10.9	12.1	22.9	37.4	30.1
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°
1600.2
1767.8
1826.9
1708.7
1501.3
1297.5
1062.4
896.0
793.5
738.0
688.6
627.1
548.7
431.7
308.7
205.0
124.2
100.1
132.6
167.6
184.5
142.3
188.1
178.5
162.8
200.2
195.4
235.1
242.4
267.7
256.9
231.5
208.6
165.2
97.7
56.7
21.7
0.0

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