

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: P477295

Luminaire Tested: **IFLD-S-SA2C-730-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477295  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-730-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

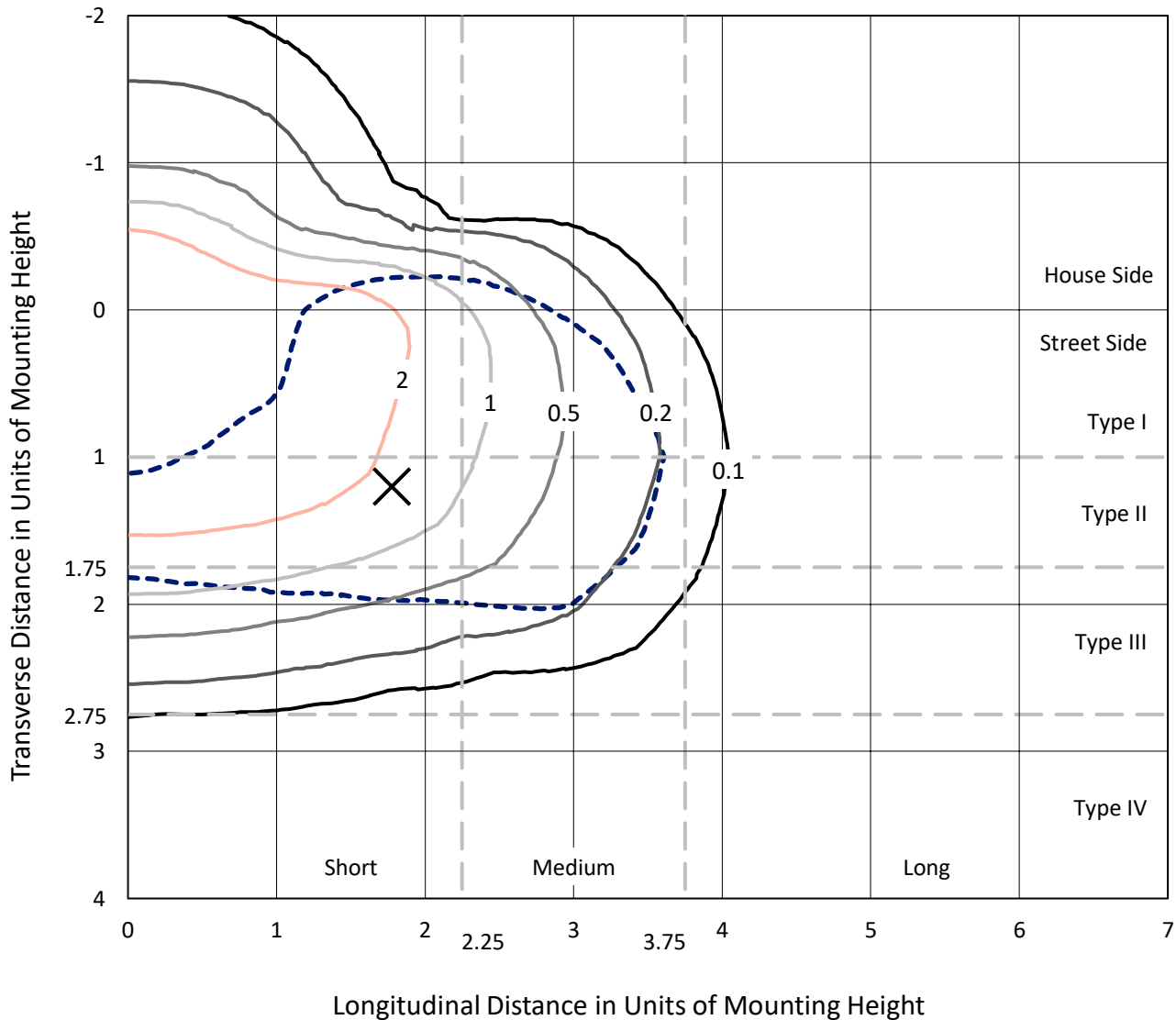
Lumens per Lamp: N/A  
Luminaire Lumens: 13182.4 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

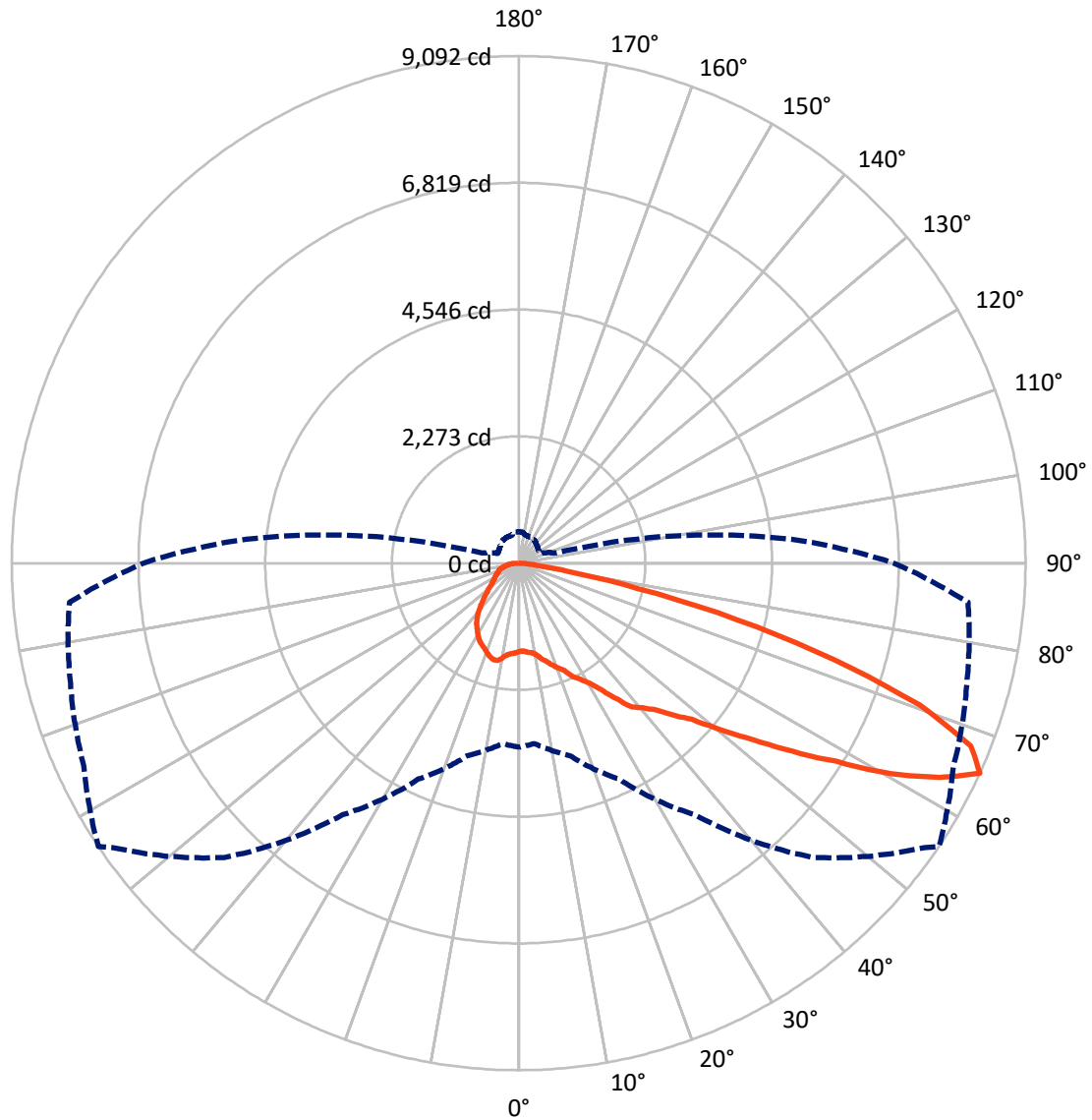
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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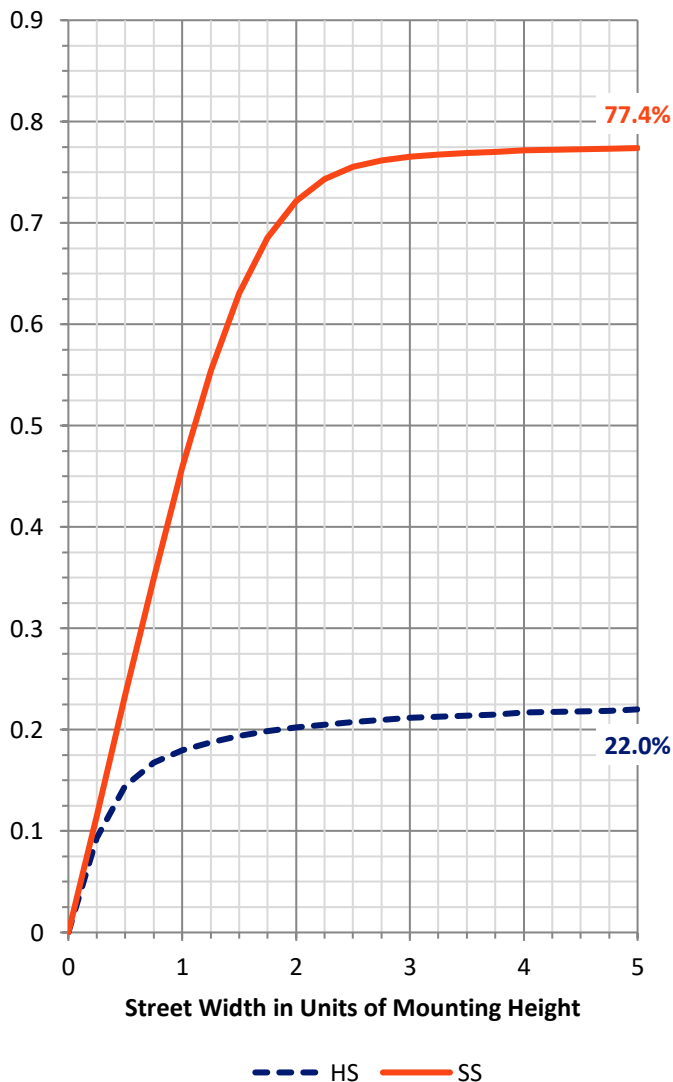
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2956.4	0.0	2956.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10226.0	0.0	10226.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13182.4	0.0	13182.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	1.2
10°-20°	509.1	3.9
20°-30°	906.6	6.9
30°-40°	1357.5	10.3
40°-50°	2011.4	15.3
50°-60°	3099.2	23.5
60°-70°	3508.7	26.6
70°-80°	1456.2	11.0
80°-90°	176.9	1.3
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°	13182.4	100.0
0°-180°	13182.4	100.0

**Coefficient of Utilization**

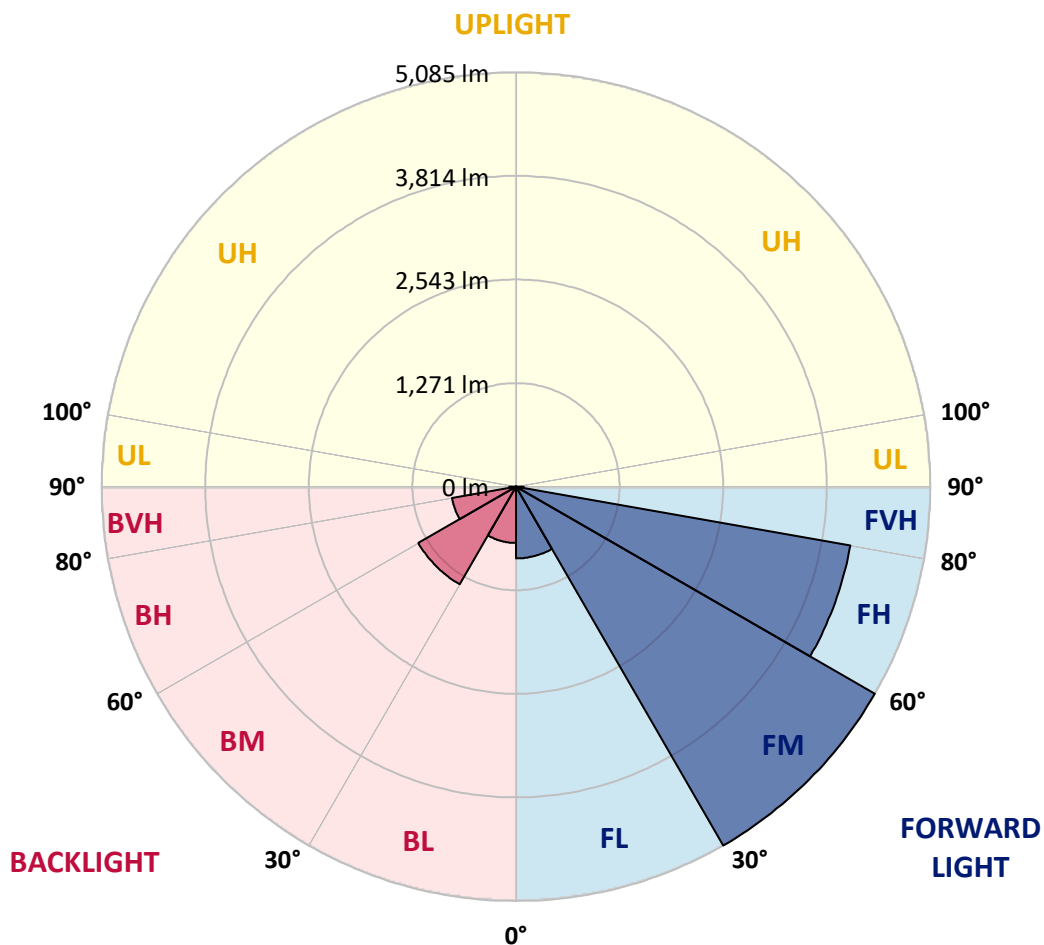


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.0	6.7			
FM (30°-60°)	5085.2	38.6			
FH (60°-80°)	4166.5	31.6			G2/5000
FVH (80°-90°)	93.3	0.7			G1/100
BL (0°-30°)	691.5	5.2	B2/1000		
BM (30°-60°)	1383.0	10.5	B2/2500		
BH (60°-80°)	798.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	83.6	0.6			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°	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3
2.5°	1540.9	1549.2	1543.6	1560.2	1574.0	1574.0	1585.0	1576.7	1587.8	1603.0
5°	1591.9	1558.8	1576.7	1585.0	1580.9	1587.8	1576.7	1604.3	1586.4	1615.4
7.5°	1604.3	1616.8	1631.9	1618.1	1630.5	1623.7	1625.0	1620.9	1611.2	1634.7
10°	1695.4	1677.5	1711.9	1691.2	1688.5	1685.7	1680.2	1659.5	1683.0	1684.3
12.5°	1800.2	1783.7	1782.3	1765.7	1787.8	1747.8	1756.1	1745.0	1749.2	1754.7
15°	1876.1	1869.2	1900.9	1881.6	1852.6	1834.7	1854.0	1823.7	1838.9	1836.1
17.5°	2026.5	2025.1	2001.6	1969.9	1953.3	1927.1	1923.0	1910.6	1921.6	1916.1
20°	2131.3	2146.5	2150.6	2113.4	2049.9	2020.9	2014.0	2004.4	2016.8	2012.7
22.5°	2291.3	2267.9	2285.8	2221.0	2197.5	2128.5	2103.7	2089.9	2149.2	2134.1
25°	2393.4	2418.2	2400.3	2378.2	2325.8	2240.3	2222.3	2252.7	2276.1	2259.6
27.5°	2623.8	2598.9	2582.4	2516.2	2481.7	2392.0	2371.3	2360.3	2365.8	2375.5
30°	2799.0	2812.8	2775.5	2728.6	2641.7	2550.7	2502.4	2492.7	2473.4	2456.9
32.5°	3048.7	3028.0	3005.9	2975.5	2901.1	2781.0	2734.1	2698.3	2640.3	2563.1
35°	3168.7	3228.0	3211.4	3130.0	3073.5	3028.0	3014.2	2959.0	2910.7	2789.3
37.5°	3368.7	3393.5	3370.1	3343.9	3317.7	3269.4	3252.8	3268.0	3172.8	2972.8
40°	3498.4	3550.8	3599.1	3526.0	3520.4	3530.1	3428.0	3410.1	3214.2	3109.4
42.5°	3763.2	3785.3	3795.0	3792.2	3823.9	3823.9	3629.4	3590.8	3451.5	3365.9
45°	4113.6	4131.6	4166.0	4190.9	4155.0	4172.9	3895.7	3880.5	3756.3	3739.8
47.5°	4417.1	4459.9	4537.1	4610.2	4657.1	4596.4	4293.0	4185.4	4153.6	4252.9
50°	4682.0	4630.9	4811.6	4886.1	5091.7	5192.4	4731.6	4688.9	4637.8	4828.2
52.5°	4708.2	4777.2	5032.4	5181.3	5604.8	5791.1	5269.6	5251.7	5189.6	5409.0
55°	4895.8	4887.5	5144.1	5466.9	5970.4	6283.5	5970.4	5959.4	5824.2	6032.5
57.5°	4864.1	4948.2	5151.0	5602.1	6300.1	6811.9	6782.9	6707.0	6518.1	6687.7
60°	4756.5	4778.5	5025.5	5597.9	6491.8	7354.0	7660.3	7675.4	7289.2	7424.4
62.5°	4146.7	4197.8	4510.9	5157.9	6355.3	7727.9	8516.9	8463.1	8154.1	7999.6
65°	3298.3	3247.3	3572.9	4272.3	5505.5	7463.0	8892.1	9092.2	8606.6	8323.8
67.5°	2022.3	2009.9	2323.0	2939.7	4119.1	6351.1	8592.8	8748.7	8481.1	8254.8
70°	1041.5	1009.8	1205.7	1640.2	2589.3	4659.9	7478.2	7631.3	7886.5	7403.7
72.5°	485.6	478.7	583.5	807.0	1318.8	2739.7	5791.1	5901.4	6439.4	6242.2
75°	285.6	289.7	349.0	422.1	642.8	1291.2	3843.2	4057.1	4640.6	4498.5
77.5°	213.8	213.8	248.3	293.8	375.2	499.4	1896.8	2179.6	2713.4	2440.3
80°	157.3	160.0	190.4	220.7	260.7	258.0	753.2	882.9	1244.3	1063.6
82.5°	122.8	126.9	147.6	164.2	183.5	155.9	309.0	332.5	511.8	406.9
85°	85.5	88.3	115.9	111.7	111.7	86.9	128.3	135.2	202.8	193.1
87.5°	20.7	23.5	56.6	62.1	46.9	26.2	40.0	45.5	73.1	84.1
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°
1582.3	0°	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3	1582.3
1609.9	2.5°	1589.2	1594.7	1618.1	1605.7	1612.6	1583.6	1607.1	1587.8	1604.3	1596.1
1622.3	5°	1633.3	1620.9	1634.7	1625.0	1625.0	1636.1	1652.6	1640.2	1665.0	1654.0
1631.9	7.5°	1651.2	1652.6	1660.9	1662.3	1655.4	1689.9	1691.2	1687.1	1710.6	1705.0
1698.1	10°	1695.4	1696.8	1711.9	1720.2	1713.3	1725.7	1711.9	1700.9	1699.5	1694.0
1750.6	12.5°	1765.7	1779.5	1776.8	1783.7	1785.1	1732.6	1700.9	1647.1	1640.2	1647.1
1827.8	15°	1830.6	1825.1	1827.8	1841.6	1783.7	1699.5	1643.0	1597.4	1600.2	1601.6
1928.5	17.5°	1907.8	1912.0	1916.1	1852.6	1746.4	1647.1	1597.4	1597.4	1583.6	1589.2
1998.9	20°	1996.1	1979.6	1943.7	1854.0	1681.6	1586.4	1571.2	1571.2	1554.7	1543.6
2074.7	22.5°	2065.1	2032.0	1978.2	1811.3	1623.7	1563.0	1525.7	1499.5	1480.2	1458.1
2158.9	25°	2109.2	2091.3	1986.5	1767.1	1580.9	1500.9	1445.7	1405.7	1380.9	1351.9
2225.1	27.5°	2176.8	2142.3	2009.9	1716.1	1534.0	1438.8	1353.3	1291.2	1244.3	1213.9
2325.8	30°	2267.9	2218.2	1993.4	1643.0	1462.3	1331.2	1230.5	1150.5	1096.7	1071.9
2421.0	32.5°	2342.4	2277.5	1979.6	1576.7	1382.2	1222.2	1088.4	1007.0	976.7	944.9
2581.0	35°	2484.4	2356.2	1969.9	1539.5	1310.5	1113.2	972.5	902.2	863.6	816.7
2676.2	37.5°	2593.4	2492.7	1946.5	1462.3	1218.1	1007.0	884.2	820.8	762.9	713.2
2896.9	40°	2764.5	2683.1	1947.8	1353.3	1109.1	916.0	815.3	749.1	675.9	633.2
3223.9	42.5°	3085.9	2870.7	1956.1	1266.4	986.3	841.5	753.2	674.6	601.5	565.6
3596.3	45°	3480.4	3128.7	1905.1	1187.7	860.8	771.1	678.7	600.1	553.2	527.0
4102.6	47.5°	3934.3	3381.1	1836.1	1040.1	756.0	696.6	609.7	564.2	529.7	514.5
4755.1	50°	4441.9	3742.5	1816.8	904.9	674.6	633.2	576.6	542.1	518.7	500.8
5490.3	52.5°	5095.8	4163.3	1778.2	765.6	604.2	582.1	564.2	540.8	520.1	504.9
6175.9	55°	5720.7	4629.5	1736.8	651.1	554.6	557.3	567.0	546.3	528.3	504.9
6944.3	57.5°	6424.3	5105.5	1583.6	567.0	517.3	544.9	564.2	540.8	522.8	504.9
7730.6	60°	6858.8	5373.1	1284.3	493.9	484.2	521.4	547.7	522.8	503.5	510.4
8092.0	62.5°	7035.4	5232.4	968.4	448.3	460.7	489.7	521.4	511.8	498.0	524.2
8087.9	65°	6734.6	4908.2	692.5	409.7	429.0	458.0	498.0	509.0	513.2	564.2
7428.5	67.5°	5992.5	4273.6	509.0	378.0	395.9	438.7	514.5	532.5	529.7	593.2
6233.9	70°	4795.1	3342.5	397.3	351.8	383.5	453.9	538.0	538.0	518.7	593.2
4755.1	72.5°	3488.7	2356.2	342.1	321.4	351.8	416.6	535.2	533.9	509.0	542.1
3028.0	75°	2112.0	1371.2	302.1	291.1	302.1	357.3	511.8	503.5	469.0	466.3
1456.7	77.5°	1052.5	689.7	246.9	258.0	263.5	299.3	449.7	462.1	415.2	404.2
575.2	80°	444.2	300.7	205.5	222.1	222.1	252.4	373.8	382.1	344.9	324.2
227.6	82.5°	202.8	172.4	175.2	193.1	180.7	195.9	296.6	306.2	280.0	245.5
96.6	85°	85.5	97.9	133.8	151.7	133.8	126.9	204.2	215.2	182.1	151.7
41.4	87.5°	38.6	53.8	84.1	110.4	67.6	59.3	109.0	113.1	91.0	67.6
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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<u>180°</u>
1582.3
1580.9
1638.8
1696.8
1694.0
1649.9
1620.9
1590.5
1527.1
1445.7
1357.4
1227.7
1085.7
943.6
812.5
714.6
637.3
568.3
532.5
511.8
503.5
503.5
503.5
503.5
504.9
517.3
564.2
597.3
580.8
522.8
460.7
397.3
317.3
240.0
153.1
63.5
0.0

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