

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: P477412

Luminaire Tested: **IFLD-S-SA2C-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

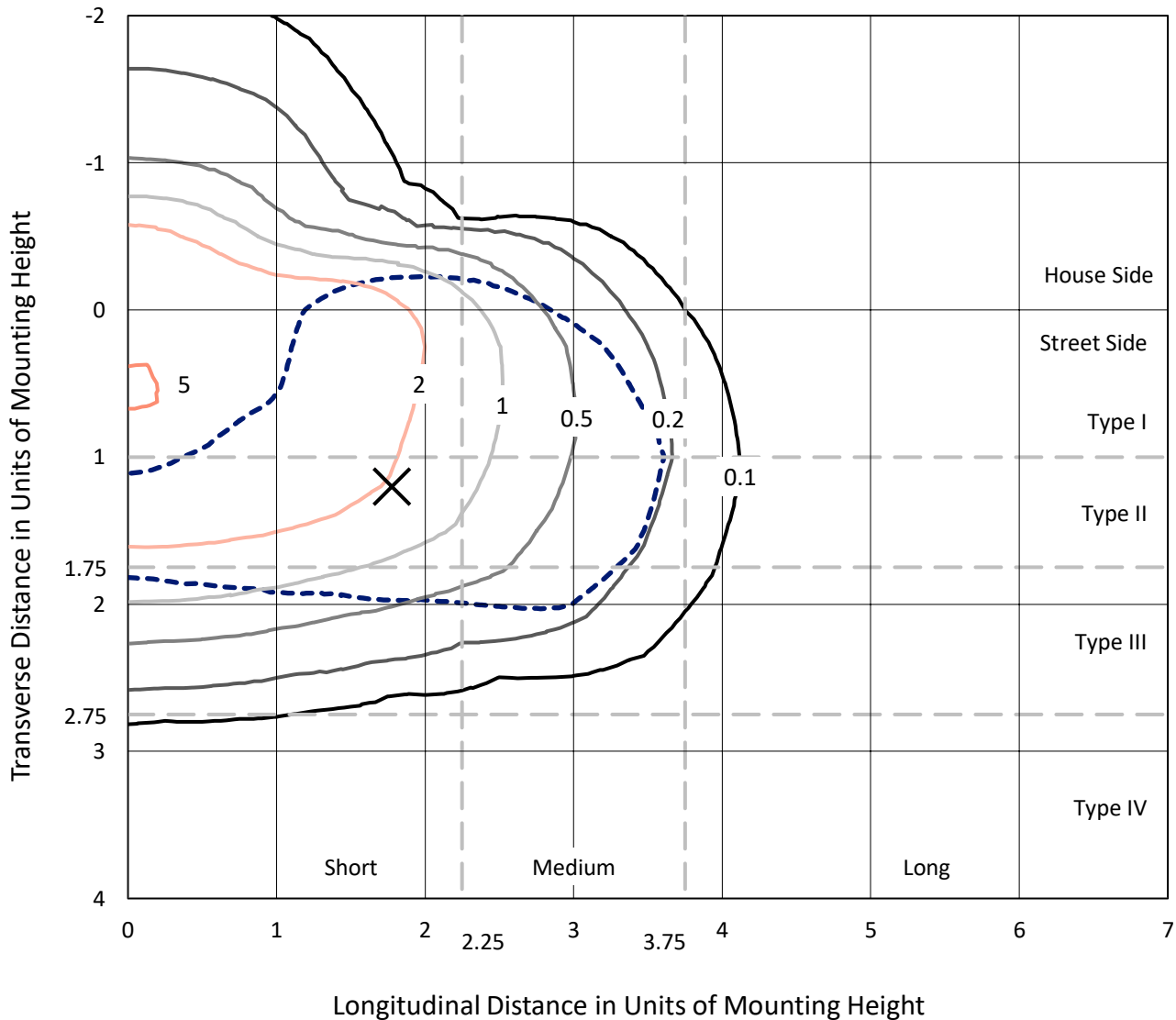
Lumens per Lamp: N/A
Luminaire Lumens: 14808.1 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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

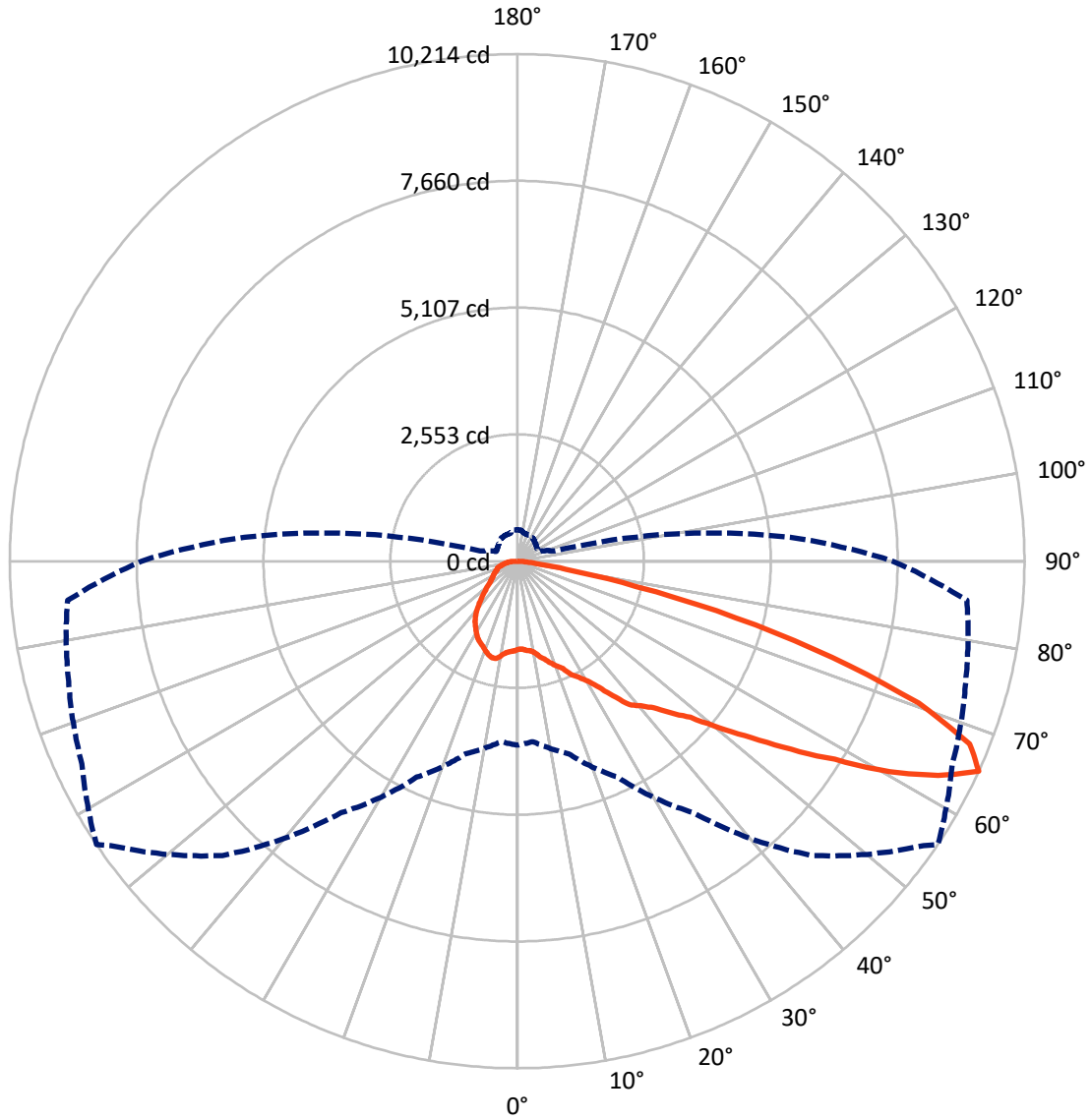
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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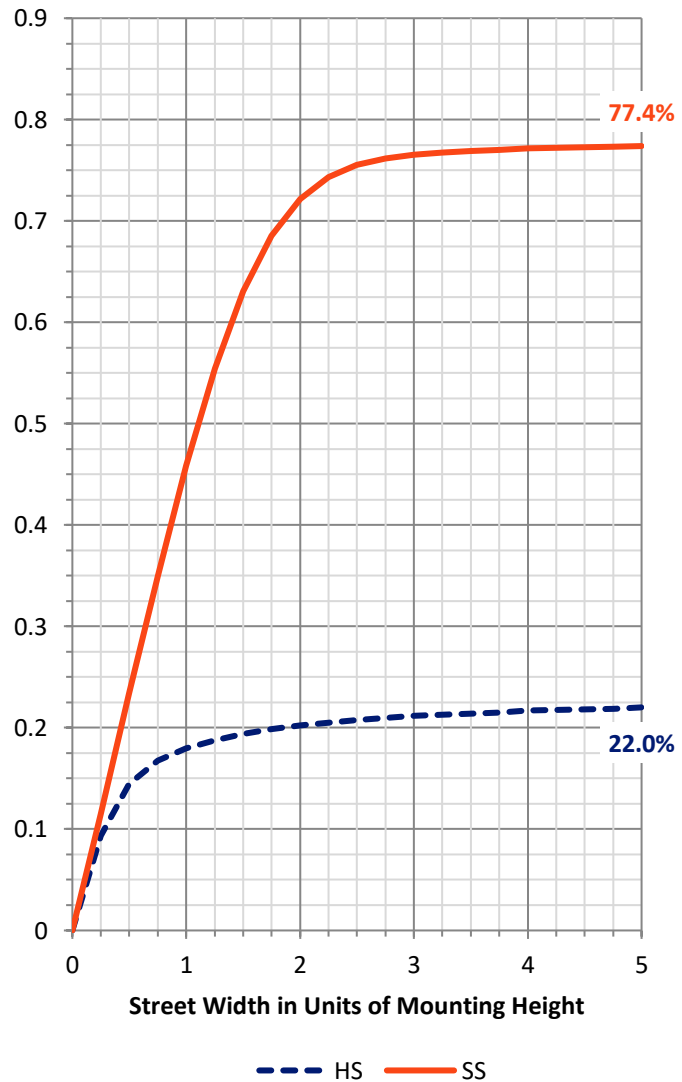
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3321.0	0.0	3321.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11487.2	0.0	11487.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	14808.1	0.0	14808.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.2
10°-20°	571.9	3.9
20°-30°	1018.4	6.9
30°-40°	1525.0	10.3
40°-50°	2259.4	15.3
50°-60°	3481.5	23.5
60°-70°	3941.4	26.6
70°-80°	1635.7	11.0
80°-90°	198.7	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°	14808.1	100.0
0°-180°	14808.1	100.0

Coefficient of Utilization

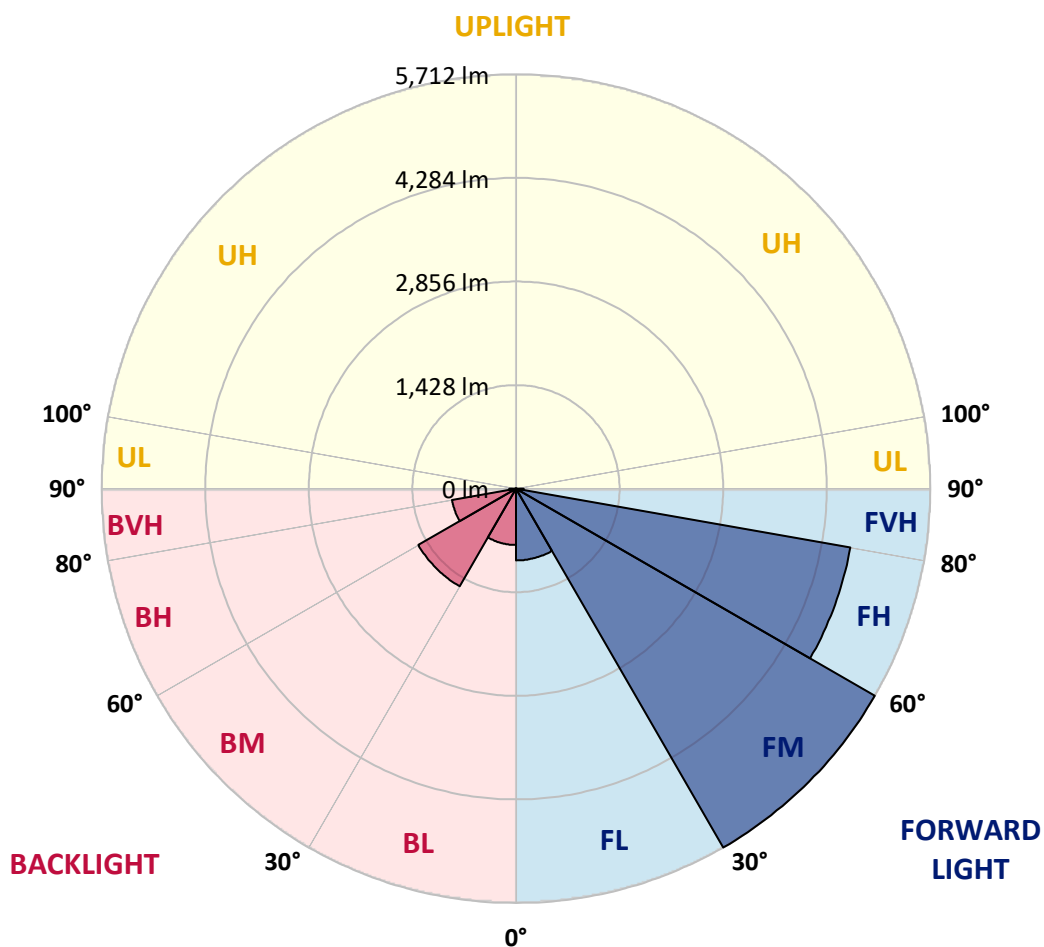


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.6	6.7			
FM (30°-60°)	5712.3	38.6			
FH (60°-80°)	4680.4	31.6			G2/5000
FVH (80°-90°)	104.8	0.7			G2/225
BL (0°-30°)	776.8	5.2	B2/1000		
BM (30°-60°)	1553.5	10.5	B2/2500		
BH (60°-80°)	896.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	93.9	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°	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4
2.5°	1730.9	1740.2	1734.0	1752.6	1768.1	1768.1	1780.5	1771.2	1783.6	1800.6
5°	1788.2	1751.1	1771.2	1780.5	1775.9	1783.6	1771.2	1802.2	1782.0	1814.6
7.5°	1802.2	1816.1	1833.2	1817.7	1831.6	1823.9	1825.4	1820.8	1809.9	1836.3
10°	1904.5	1884.3	1923.1	1899.8	1896.7	1893.6	1887.4	1864.2	1890.5	1892.1
12.5°	2022.2	2003.6	2002.1	1983.5	2008.3	1963.4	1972.7	1960.3	1964.9	1971.1
15°	2107.5	2099.7	2135.4	2113.7	2081.1	2061.0	2082.7	2048.6	2065.6	2062.5
17.5°	2276.4	2274.8	2248.5	2212.8	2194.2	2164.8	2160.2	2146.2	2158.6	2152.4
20°	2394.1	2411.2	2415.8	2374.0	2302.7	2270.2	2262.4	2251.6	2265.5	2260.9
22.5°	2573.9	2547.6	2567.7	2494.9	2468.5	2391.0	2363.2	2347.7	2414.3	2397.2
25°	2688.6	2716.5	2696.3	2671.5	2612.6	2516.6	2496.4	2530.5	2556.9	2538.3
27.5°	2947.4	2919.5	2900.9	2826.5	2787.7	2687.0	2663.8	2651.4	2657.6	2668.4
30°	3144.2	3159.7	3117.8	3065.1	2967.5	2865.2	2811.0	2800.1	2778.4	2759.9
32.5°	3424.6	3401.4	3376.6	3342.5	3258.8	3124.0	3071.3	3031.0	2966.0	2879.2
35°	3559.5	3626.1	3607.5	3516.1	3452.5	3401.4	3385.9	3323.9	3269.7	3133.3
37.5°	3784.1	3812.0	3785.7	3756.3	3726.8	3672.6	3654.0	3671.0	3564.1	3339.4
40°	3929.8	3988.7	4042.9	3960.8	3954.6	3965.4	3850.8	3830.6	3610.6	3492.8
42.5°	4227.3	4252.1	4263.0	4259.9	4295.5	4295.5	4077.0	4033.6	3877.1	3781.0
45°	4620.9	4641.1	4679.8	4707.7	4667.4	4687.6	4376.1	4359.0	4219.6	4201.0
47.5°	4961.8	5009.9	5096.7	5178.8	5231.5	5163.3	4822.4	4701.5	4665.9	4777.4
50°	5259.4	5202.0	5405.0	5488.7	5719.6	5832.7	5315.2	5267.1	5209.8	5423.6
52.5°	5288.8	5366.3	5653.0	5820.3	6296.1	6505.3	5919.5	5899.4	5829.6	6076.0
55°	5499.6	5490.3	5778.5	6141.1	6706.7	7058.5	6706.7	6694.3	6542.4	6776.4
57.5°	5463.9	5558.4	5786.2	6293.0	7077.1	7652.0	7619.4	7534.2	7321.9	7512.5
60°	5343.1	5367.8	5645.2	6288.3	7292.5	8261.0	8605.0	8622.0	8188.1	8340.0
62.5°	4658.1	4715.5	5067.2	5794.0	7139.0	8680.9	9567.3	9506.8	9159.7	8986.2
65°	3705.1	3647.8	4013.5	4799.1	6184.5	8383.4	9988.8	10213.5	9668.0	9350.3
67.5°	2271.7	2257.8	2609.5	3302.2	4627.1	7134.4	9652.5	9827.6	9527.0	9272.9
70°	1170.0	1134.3	1354.4	1842.5	2908.6	5234.6	8400.4	8572.4	8859.1	8316.7
72.5°	545.5	537.7	655.5	906.5	1481.4	3077.5	6505.3	6629.2	7233.6	7012.0
75°	320.8	325.4	392.1	474.2	722.1	1450.4	4317.2	4557.4	5212.9	5053.3
77.5°	240.2	240.2	278.9	330.1	421.5	561.0	2130.7	2448.4	3048.1	2741.3
80°	176.7	179.8	213.8	247.9	292.9	289.8	846.1	991.7	1397.7	1194.7
82.5°	137.9	142.6	165.8	184.4	206.1	175.1	347.1	373.5	574.9	457.1
85°	96.1	99.2	130.2	125.5	125.5	97.6	144.1	151.9	227.8	216.9
87.5°	23.2	26.3	63.5	69.7	52.7	29.4	44.9	51.1	82.1	94.5
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1777.4	0°	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4	1777.4
1808.4	2.5°	1785.1	1791.3	1817.7	1803.7	1811.5	1779.0	1805.3	1783.6	1802.2	1792.9
1822.3	5°	1834.7	1820.8	1836.3	1825.4	1825.4	1837.8	1856.4	1842.5	1870.4	1858.0
1833.2	7.5°	1854.9	1856.4	1865.7	1867.3	1859.5	1898.3	1899.8	1895.2	1921.5	1915.3
1907.6	10°	1904.5	1906.0	1923.1	1932.4	1924.6	1938.6	1923.1	1910.7	1909.1	1902.9
1966.5	12.5°	1983.5	1999.0	1995.9	2003.6	2005.2	1946.3	1910.7	1850.2	1842.5	1850.2
2053.2	15°	2056.3	2050.1	2053.2	2068.7	2003.6	1909.1	1845.6	1794.4	1797.5	1799.1
2166.4	17.5°	2143.1	2147.8	2152.4	2081.1	1961.8	1850.2	1794.4	1794.4	1779.0	1785.1
2245.4	20°	2242.3	2223.7	2183.4	2082.7	1889.0	1782.0	1765.0	1765.0	1746.4	1734.0
2330.6	22.5°	2319.8	2282.6	2222.1	2034.6	1823.9	1755.7	1713.9	1684.4	1662.7	1637.9
2425.1	25°	2369.4	2349.2	2231.4	1985.0	1775.9	1686.0	1624.0	1579.1	1551.2	1518.6
2499.5	27.5°	2445.3	2406.5	2257.8	1927.7	1723.2	1616.2	1520.2	1450.4	1397.7	1363.7
2612.6	30°	2547.6	2491.8	2239.2	1845.6	1642.6	1495.4	1382.3	1292.4	1231.9	1204.0
2719.6	32.5°	2631.2	2558.4	2223.7	1771.2	1552.7	1373.0	1222.6	1131.2	1097.1	1061.5
2899.3	35°	2790.8	2646.7	2212.8	1729.4	1472.1	1250.5	1092.5	1013.4	970.1	917.4
3006.2	37.5°	2913.3	2800.1	2186.5	1642.6	1368.3	1131.2	993.3	922.0	856.9	801.1
3254.2	40°	3105.4	3014.0	2188.0	1520.2	1245.9	1028.9	915.8	841.4	759.3	711.3
3621.4	42.5°	3466.5	3224.7	2197.3	1422.5	1108.0	945.3	846.1	757.8	675.6	635.3
4039.8	45°	3909.7	3514.5	2140.0	1334.2	967.0	866.2	762.4	674.1	621.4	592.0
4608.5	47.5°	4419.5	3798.1	2062.5	1168.4	849.2	782.6	684.9	633.8	595.0	578.0
5341.5	50°	4989.7	4204.1	2040.8	1016.5	757.8	711.3	647.7	609.0	582.7	562.5
6167.4	52.5°	5724.3	4676.7	1997.4	860.0	678.7	653.9	633.8	607.4	584.2	567.2
6937.6	55°	6426.2	5200.5	1951.0	731.4	622.9	626.0	636.9	613.6	593.5	567.2
7800.7	57.5°	7216.5	5735.1	1779.0	636.9	581.1	612.1	633.8	607.4	587.3	567.2
8684.0	60°	7704.7	6035.7	1442.7	554.8	543.9	585.8	615.2	587.3	565.6	573.4
9090.0	62.5°	7903.0	5877.7	1087.8	503.6	517.6	550.1	585.8	574.9	559.4	588.9
9085.4	65°	7565.2	5513.5	777.9	460.2	481.9	514.5	559.4	571.8	576.5	633.8
8344.6	67.5°	6731.5	4800.7	571.8	424.6	444.7	492.8	578.0	598.1	595.0	666.3
7002.7	70°	5386.4	3754.7	446.3	395.2	430.8	509.8	604.3	604.3	582.7	666.3
5341.5	72.5°	3919.0	2646.7	384.3	361.1	395.2	468.0	601.2	599.7	571.8	609.0
3401.4	75°	2372.5	1540.3	339.4	327.0	339.4	401.3	574.9	565.6	526.9	523.8
1636.4	77.5°	1182.4	774.8	277.4	289.8	296.0	336.3	505.2	519.1	466.4	454.0
646.2	80°	499.0	337.8	230.9	249.5	249.5	283.6	419.9	429.2	387.4	364.2
255.7	82.5°	227.8	193.7	196.8	216.9	203.0	220.0	333.2	344.0	314.6	275.8
108.5	85°	96.1	110.0	150.3	170.5	150.3	142.6	229.3	241.7	204.5	170.5
46.5	87.5°	43.4	60.4	94.5	124.0	75.9	66.6	122.4	127.1	102.3	75.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
1777.4
1775.9
1840.9
1906.0
1902.9
1853.3
1820.8
1786.7
1715.4
1624.0
1524.8
1379.2
1219.5
1059.9
912.7
802.7
715.9
638.4
598.1
574.9
565.6
565.6
565.6
565.6
567.2
581.1
633.8
671.0
652.4
587.3
517.6
446.3
356.4
269.6
172.0
71.3
0.0

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