

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: P477646

Luminaire Tested: **IFLD-S-SA2C-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477646
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

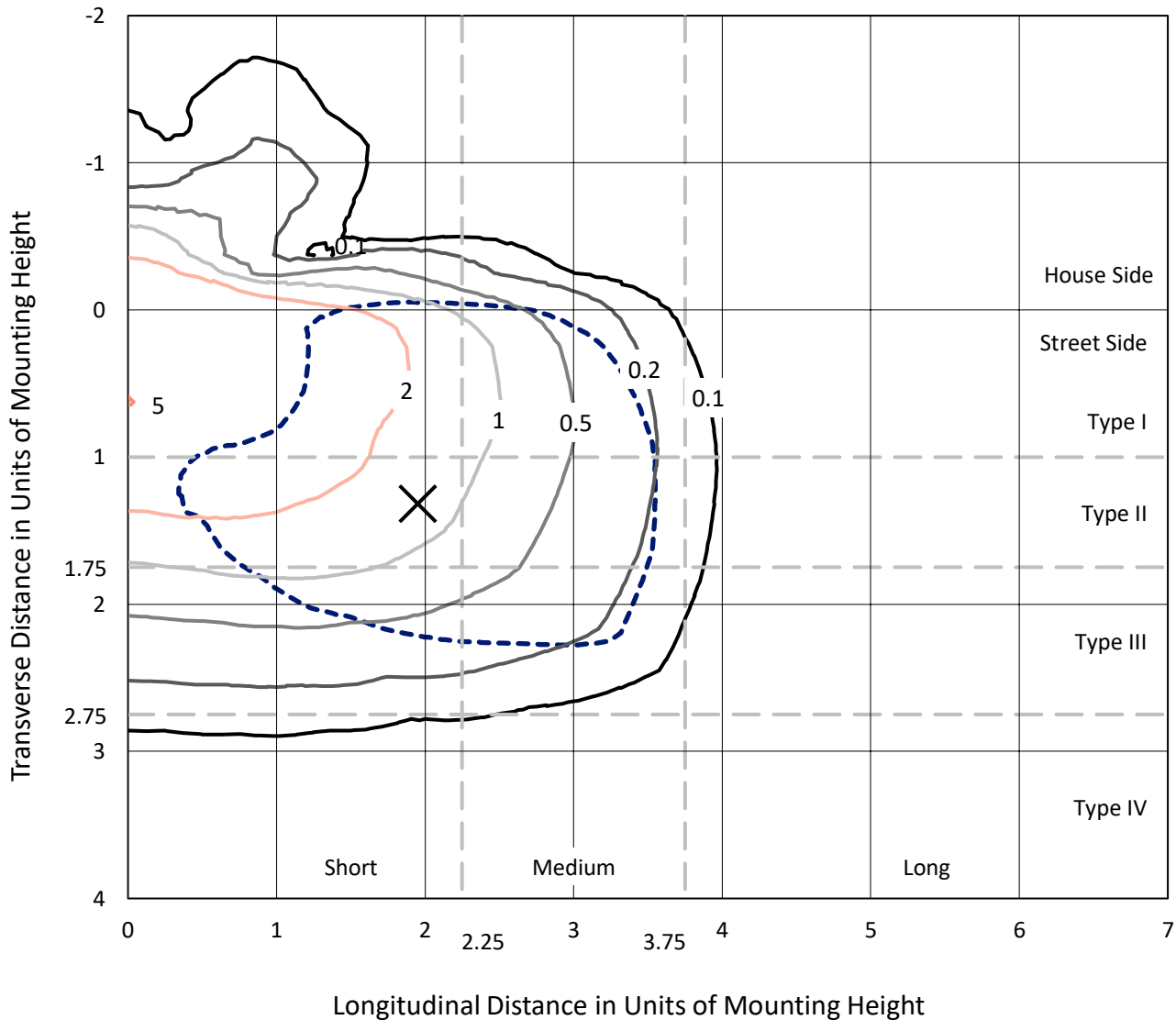
Lumens per Lamp: N/A
Luminaire Lumens: 11676.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

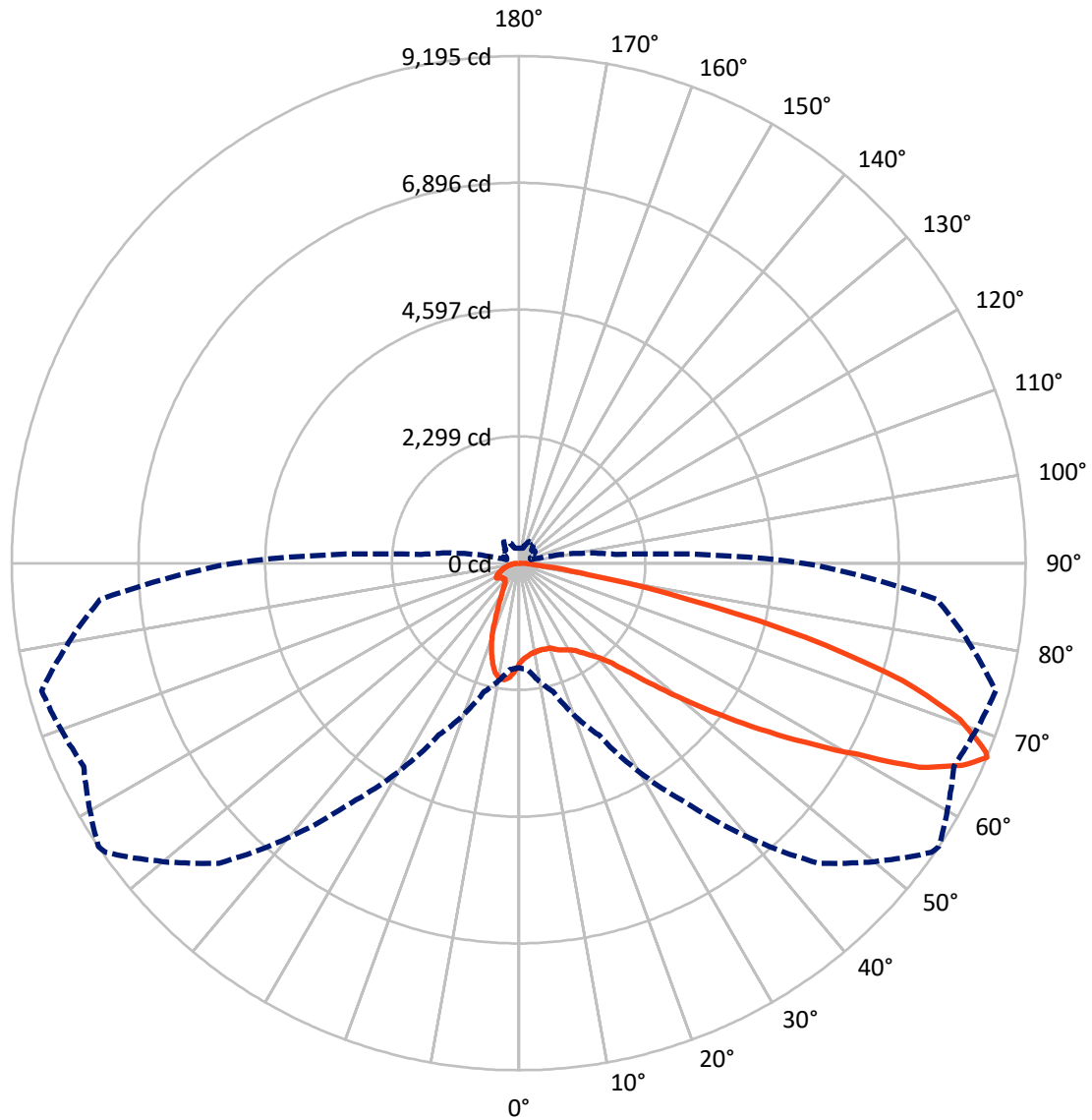
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1848.5	0.0	1848.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9827.8	0.0	9827.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	11676.2	0.0	11676.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	1.5
10°-20°	477.5	4.1
20°-30°	748.8	6.4
30°-40°	1069.0	9.2
40°-50°	1613.4	13.8
50°-60°	2568.3	22.0
60°-70°	3283.3	28.1
70°-80°	1600.8	13.7
80°-90°	140.0	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°	11676.2	100.0
0°-180°	11676.2	100.0

Coefficient of Utilization

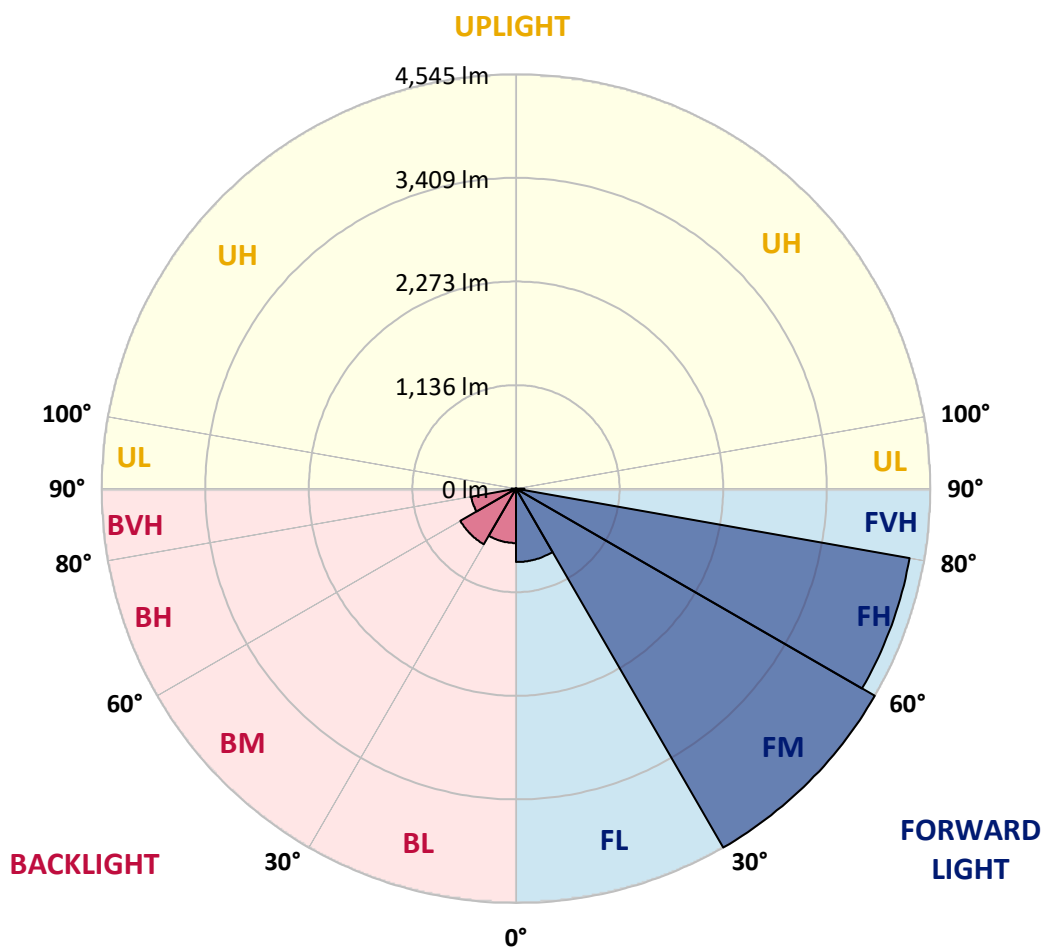


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.6	6.9			
FM (30°-60°)	4545.5	38.9			
FH (60°-80°)	4384.7	37.6			G2/5000
FVH (80°-90°)	93.0	0.8			G1/100
BL (0°-30°)	596.7	5.1	B2/1000		
BM (30°-60°)	705.2	6.0	B1/1000		
BH (60°-80°)	499.5	4.3	B1/500		G1/500
BVH (80°-90°)	47.0	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°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1668.9	1662.1	1670.3	1662.1	1699.0	1721.0	1727.8	1737.4	1771.6	1804.5
5°	1599.1	1569.0	1601.8	1612.8	1615.5	1652.5	1690.8	1697.7	1715.5	1768.9
7.5°	1482.7	1517.0	1504.6	1537.5	1571.7	1608.7	1671.7	1653.9	1719.6	1770.2
10°	1458.1	1460.8	1474.5	1486.8	1517.0	1564.9	1652.5	1641.5	1708.6	1816.8
12.5°	1482.7	1482.7	1478.6	1469.0	1503.3	1549.8	1619.6	1625.1	1730.5	1830.5
15°	1569.0	1585.4	1541.6	1548.4	1534.8	1549.8	1611.4	1623.7	1738.8	1841.4
17.5°	1779.8	1774.3	1722.3	1649.8	1589.5	1579.9	1622.4	1636.1	1730.5	1872.9
20°	1985.2	1974.2	1883.9	1808.6	1689.5	1633.3	1640.2	1641.5	1744.2	1893.5
22.5°	2213.8	2242.6	2144.0	1990.7	1842.8	1703.2	1675.8	1697.7	1775.7	1904.4
25°	2572.5	2510.9	2426.0	2224.8	1986.6	1811.3	1734.6	1745.6	1805.8	1931.8
27.5°	2831.3	2806.6	2673.8	2510.9	2187.8	1896.2	1766.1	1786.7	1860.6	1930.4
30°	3080.5	3080.5	2999.7	2756.0	2400.0	2038.6	1833.2	1823.6	1834.6	1927.7
32.5°	3372.1	3332.4	3216.0	3054.5	2667.0	2168.6	1886.6	1889.4	1889.4	1978.3
35°	3525.4	3589.8	3511.7	3248.9	2871.0	2385.0	2015.3	1994.8	1979.7	2034.5
37.5°	3750.0	3788.3	3706.1	3551.4	3124.3	2560.2	2128.9	2112.5	2024.9	2078.3
40°	3885.5	3878.7	3875.9	3804.7	3459.7	2766.9	2296.0	2253.5	2135.8	2233.0
42.5°	3962.2	3948.5	4116.9	4073.1	3776.0	3070.9	2505.4	2482.2	2352.1	2508.2
45°	4048.4	4149.7	4288.0	4411.2	4144.3	3498.0	2860.0	2827.2	2710.8	2909.3
47.5°	4123.7	4248.3	4424.9	4556.4	4476.9	3962.2	3298.2	3306.4	3229.7	3433.7
50°	4249.7	4262.0	4501.6	4767.2	4828.8	4390.7	3886.9	3873.2	3838.9	4125.1
52.5°	4211.3	4248.3	4550.9	4890.4	4991.7	4843.9	4519.4	4560.5	4515.3	4875.4
55°	3587.0	3697.9	4520.8	5020.5	5377.8	5355.9	5332.6	5305.2	5302.5	5718.7
57.5°	3303.6	3394.0	3982.7	5164.2	5791.3	5952.8	6103.4	6133.6	6132.2	6634.6
60°	3117.4	3210.5	3765.0	5086.2	6143.1	6734.6	7023.5	7027.6	7019.4	7613.5
62.5°	2753.3	2843.6	3388.5	4659.0	6240.3	7456.1	8099.6	8153.0	7776.5	8456.9
65°	2315.1	2389.1	2869.6	4006.0	5981.6	7914.7	8908.7	8845.7	8414.5	8938.8
67°	1893.5	1942.7	2411.0	3439.2	5305.2	7694.3	9142.8	9194.9	8708.8	8959.4
67.5°	1773.0	1818.2	2260.4	3246.1	5047.9	7527.3	9151.0	9142.8	8714.3	8963.5
70°	1230.8	1250.0	1540.2	2233.0	3718.5	6359.5	8482.9	8502.1	8348.8	8477.4
72.5°	816.0	844.7	1029.6	1407.4	2191.9	4627.5	7090.6	7295.9	7198.7	6950.9
75°	525.7	542.2	673.6	837.9	1078.8	2635.5	5238.2	5375.1	5151.9	4299.0
77.5°	294.4	312.2	406.6	509.3	525.7	1096.6	2942.2	3112.0	2636.9	1826.4
80°	183.5	206.7	306.7	302.6	250.5	402.5	1213.0	1299.3	1054.2	628.4
82.5°	138.3	156.1	236.9	212.2	141.0	179.4	454.5	487.4	386.1	242.3
85°	94.5	119.1	171.1	131.4	73.9	86.3	180.7	194.4	176.6	117.7
87.5°	34.2	50.7	89.0	65.7	32.9	26.0	58.9	65.7	63.0	53.4
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°
1816.8	0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
1833.2	2.5°	1859.2	1878.4	1888.0	1944.1	1967.4	1963.3	1968.8	1977.0	1985.2	1996.1
1856.5	5°	1874.3	1933.2	1964.7	2030.4	2074.2	2055.0	2079.7	2072.8	2063.2	2061.9
1898.9	7.5°	1923.6	1998.9	2093.3	2111.1	2130.3	2082.4	2041.3	1985.2	1971.5	1923.6
1934.5	10°	2011.2	2072.8	2187.8	2194.7	2109.8	1986.6	1894.8	1778.5	1777.1	1707.3
1989.3	12.5°	2094.7	2164.5	2257.6	2217.9	2015.3	1846.9	1697.7	1570.4	1517.0	1481.4
2022.2	15°	2146.7	2261.7	2311.0	2139.9	1849.6	1622.4	1429.3	1292.4	1237.7	1211.7
2063.2	17.5°	2194.7	2354.8	2332.9	2003.0	1645.7	1391.0	1161.0	1041.9	1026.8	1007.7
2128.9	20°	2260.4	2389.1	2254.9	1825.0	1414.3	1092.5	946.0	888.5	902.2	910.4
2135.8	22.5°	2322.0	2406.9	2156.3	1630.6	1117.2	865.3	792.7	805.0	825.6	852.9
2152.2	25°	2349.4	2435.6	2023.5	1362.3	850.2	728.4	711.9	732.5	766.7	768.1
2175.5	27.5°	2367.2	2415.1	1863.3	1100.8	672.2	636.6	661.3	676.3	680.4	696.9
2224.8	30°	2398.7	2372.6	1660.7	787.2	564.1	565.4	596.9	596.9	596.9	609.2
2274.1	32.5°	2453.4	2343.9	1423.9	575.0	486.0	529.8	521.6	518.9	513.4	498.4
2337.0	35°	2487.6	2265.9	1124.0	425.8	436.7	486.0	483.3	440.8	369.7	334.1
2497.2	37.5°	2558.8	2226.2	826.9	328.6	408.0	464.1	449.1	346.4	268.3	234.1
2695.8	40°	2712.2	2200.1	572.3	287.5	388.8	453.2	401.1	295.7	205.4	145.1
3002.4	42.5°	2899.7	2201.5	388.8	271.1	390.2	476.4	386.1	253.3	145.1	116.4
3411.8	45°	3151.7	2181.0	267.0	271.1	414.8	514.8	395.7	230.0	141.0	147.9
3925.2	47.5°	3422.7	2198.8	198.5	246.4	418.9	516.1	361.4	225.9	135.5	171.1
4483.8	50°	3739.0	2216.6	164.3	227.3	420.3	499.7	332.7	220.4	141.0	180.7
5124.5	52.5°	4064.8	2272.7	139.6	214.9	436.7	492.9	332.7	228.6	141.0	157.4
5940.5	55°	4550.9	2416.5	201.3	268.3	497.0	538.1	409.4	320.4	197.1	202.6
6722.3	57.5°	5087.6	2564.3	224.5	282.0	510.7	484.7	440.8	353.2	208.1	209.5
7330.1	60°	5440.8	2569.8	223.2	275.2	477.8	418.9	431.3	372.4	212.2	179.4
7706.6	62.5°	5581.8	2402.8	232.7	275.2	445.0	391.6	442.2	401.1	219.1	224.5
7813.4	65°	5421.6	2057.8	224.5	246.4	391.6	350.5	445.0	406.6	239.6	225.9
7621.8	67°	5171.1	1773.0	228.6	234.1	364.2	332.7	468.2	427.2	277.9	271.1
7521.8	67.5°	5099.9	1697.7	227.3	227.3	354.6	327.2	473.7	427.2	283.4	280.7
6638.8	70°	4494.7	1375.9	232.7	224.5	313.5	310.8	503.8	450.4	325.8	328.6
4876.7	72.5°	3421.4	1043.3	231.4	224.5	272.5	297.1	507.9	465.5	354.6	328.6
2731.3	75°	1944.1	624.3	204.0	195.8	214.9	258.8	475.1	443.6	345.0	294.4
1091.2	77.5°	803.7	321.7	187.6	176.6	178.0	210.8	395.7	413.5	328.6	250.5
364.2	80°	299.8	193.0	150.6	141.0	136.9	154.7	282.0	330.0	280.7	205.4
160.2	82.5°	156.1	120.5	102.7	102.7	93.1	98.6	152.0	219.1	212.2	141.0
64.3	85°	79.4	68.5	58.9	57.5	52.0	46.5	76.7	130.1	121.8	78.0
28.8	87.5°	42.4	38.3	24.6	23.3	19.2	12.3	13.7	26.0	42.4	34.2
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>
1816.8
2007.1
2074.2
1940.0
1704.5
1473.1
1206.2
1017.2
900.9
837.9
781.8
711.9
622.9
490.1
350.5
232.7
141.0
113.6
150.6
190.3
209.5
161.6
213.6
202.6
184.8
227.3
221.8
267.0
275.2
303.9
291.6
262.9
236.9
187.6
110.9
64.3
24.6
0.0

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