

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: P477260

Luminaire Tested: **IFLD-S-SA3B-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

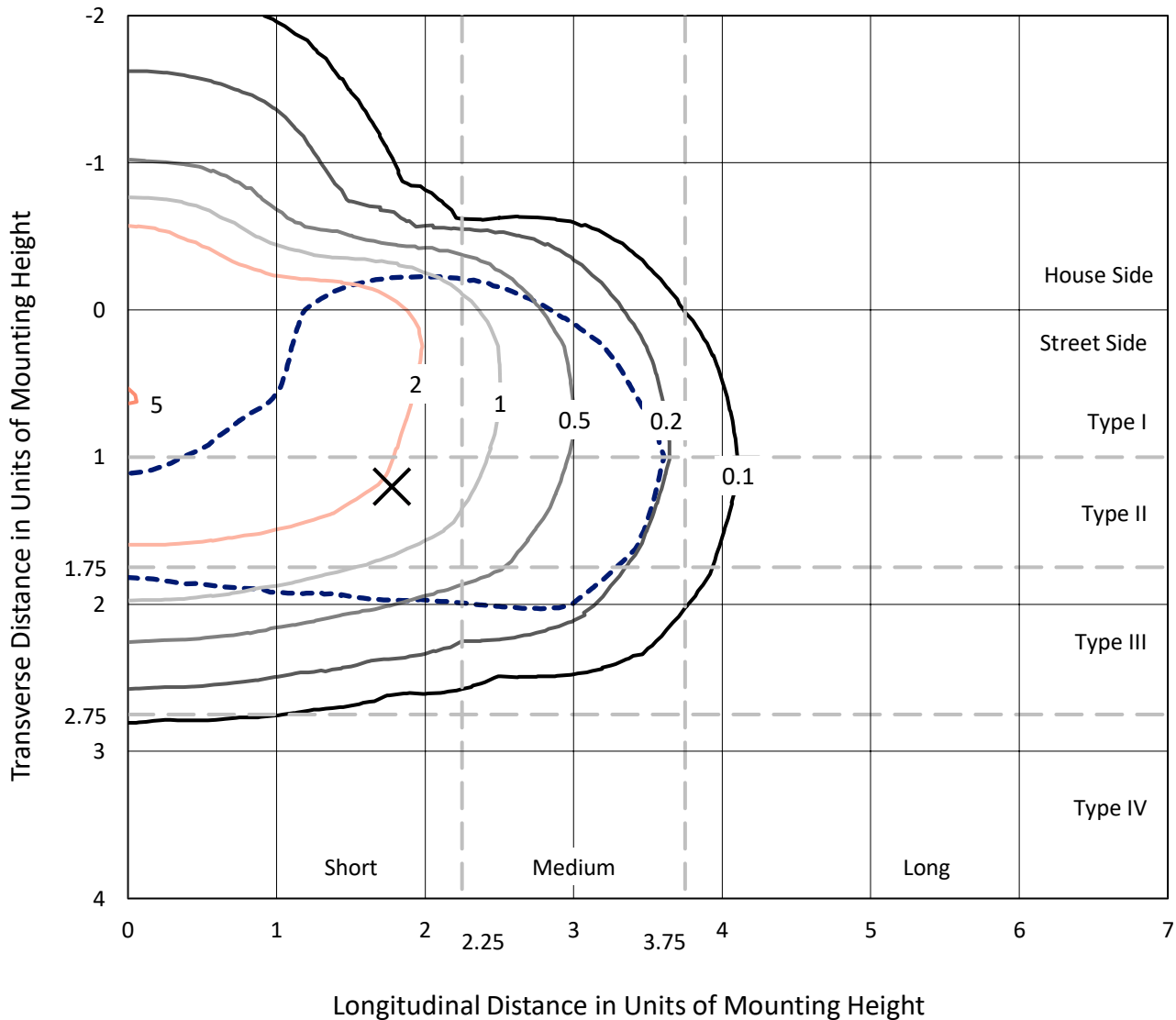
Lumens per Lamp: N/A
Luminaire Lumens: 14493.9 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

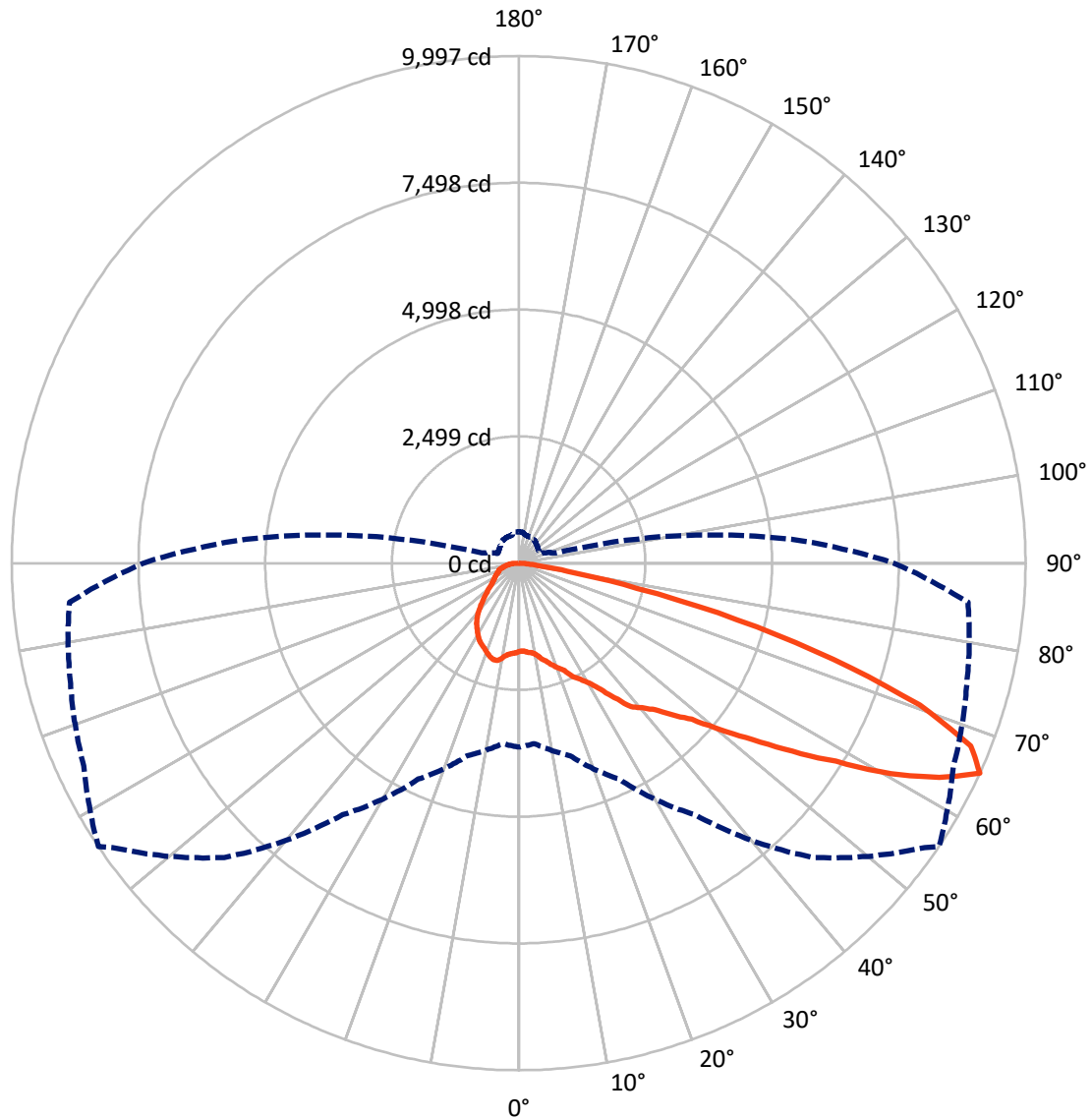
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	3250.5	0.0	3250.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11243.4	0.0	11243.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	14493.9	0.0	14493.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	1.2
10°-20°	559.8	3.9
20°-30°	996.8	6.9
30°-40°	1492.6	10.3
40°-50°	2211.5	15.3
50°-60°	3407.6	23.5
60°-70°	3857.8	26.6
70°-80°	1601.0	11.0
80°-90°	194.5	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°	14493.9	100.0
0°-180°	14493.9	100.0

Coefficient of Utilization

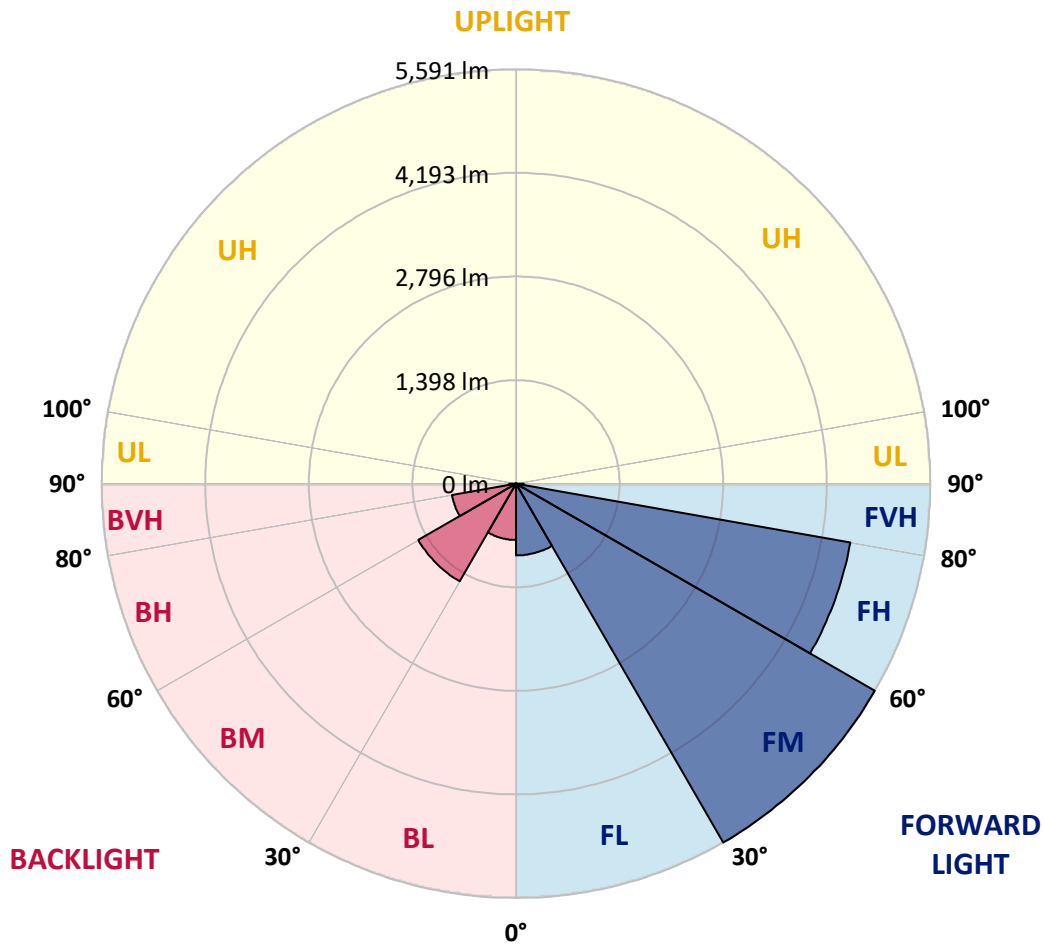


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.6	6.7			
FM (30°-60°)	5591.1	38.6			
FH (60°-80°)	4581.1	31.6			G2/5000
FVH (80°-90°)	102.6	0.7			G2/225
BL (0°-30°)	760.3	5.2	B2/1000		
BM (30°-60°)	1520.5	10.5	B2/2500		
BH (60°-80°)	877.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	91.9	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°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1694.2	1703.3	1697.2	1715.4	1730.6	1730.6	1742.7	1733.6	1745.8	1762.4
5°	1750.3	1713.9	1733.6	1742.7	1738.2	1745.8	1733.6	1764.0	1744.2	1776.1
7.5°	1764.0	1777.6	1794.3	1779.1	1792.8	1785.2	1786.7	1782.2	1771.5	1797.3
10°	1864.1	1844.3	1882.3	1859.5	1856.5	1853.4	1847.4	1824.6	1850.4	1851.9
12.5°	1979.3	1961.1	1959.6	1941.4	1965.7	1921.7	1930.8	1918.7	1923.2	1929.3
15°	2062.7	2055.2	2090.0	2068.8	2037.0	2017.2	2038.5	2005.1	2021.8	2018.8
17.5°	2228.1	2226.6	2200.8	2165.9	2147.7	2118.9	2114.3	2100.7	2112.8	2106.7
20°	2343.3	2360.0	2364.6	2323.6	2253.9	2222.0	2214.4	2203.8	2217.5	2212.9
22.5°	2519.3	2493.5	2513.2	2441.9	2416.1	2340.3	2313.0	2297.8	2363.1	2346.4
25°	2631.5	2658.8	2639.1	2614.8	2557.2	2463.2	2443.4	2476.8	2502.6	2484.4
27.5°	2884.8	2857.5	2839.3	2766.5	2728.6	2630.0	2607.3	2595.1	2601.2	2611.8
30°	3077.4	3092.6	3051.7	3000.1	2904.5	2804.4	2751.3	2740.7	2719.5	2701.3
32.5°	3352.0	3329.2	3304.9	3271.6	3189.7	3057.7	3006.1	2966.7	2903.0	2818.1
35°	3483.9	3549.1	3530.9	3441.4	3379.3	3329.2	3314.0	3253.4	3200.3	3066.8
37.5°	3703.8	3731.1	3705.4	3676.5	3647.7	3594.6	3576.4	3593.1	3488.5	3268.5
40°	3846.4	3904.1	3957.1	3876.7	3870.7	3881.3	3769.1	3749.3	3534.0	3418.7
42.5°	4137.6	4161.9	4172.5	4169.5	4204.4	4204.4	3990.5	3948.0	3794.8	3700.8
45°	4522.9	4542.6	4580.5	4607.8	4568.4	4588.1	4283.2	4266.5	4130.0	4111.8
47.5°	4856.6	4903.6	4988.5	5068.9	5120.5	5053.7	4720.0	4601.7	4566.9	4676.1
50°	5147.8	5091.6	5290.3	5372.2	5598.2	5709.0	5202.4	5155.3	5099.2	5308.5
52.5°	5176.6	5252.4	5533.0	5696.8	6162.5	6367.2	5793.9	5774.2	5705.9	5947.1
55°	5382.9	5373.8	5655.9	6010.8	6564.4	6908.7	6564.4	6552.3	6403.6	6632.6
57.5°	5348.0	5440.5	5663.5	6159.4	6926.9	7489.6	7457.7	7374.3	7166.5	7353.1
60°	5229.7	5253.9	5525.4	6154.9	7137.7	8085.7	8422.4	8439.1	8014.4	8163.0
62.5°	4559.3	4615.4	4959.7	5671.0	6987.6	8496.7	9364.3	9305.1	8965.4	8795.5
65°	3626.5	3570.4	3928.3	4697.3	6053.3	8205.5	9776.8	9996.7	9462.8	9151.9
67.5°	2223.5	2209.9	2554.2	3232.1	4528.9	6983.0	9447.7	9619.1	9324.8	9076.1
70°	1145.1	1110.2	1325.6	1803.4	2846.9	5123.5	8222.2	8390.5	8671.1	8140.3
72.5°	533.9	526.3	641.6	887.3	1450.0	3012.2	6367.2	6488.6	7080.1	6863.2
75°	314.0	318.5	383.7	464.1	706.8	1419.7	4225.6	4460.7	5102.3	4946.0
77.5°	235.1	235.1	273.0	323.1	412.5	549.1	2085.5	2396.4	2983.4	2683.1
80°	172.9	175.9	209.3	242.7	286.7	283.6	828.1	970.7	1368.1	1169.4
82.5°	135.0	139.5	162.3	180.5	201.7	171.4	339.7	365.5	562.7	447.4
85°	94.0	97.1	127.4	122.9	122.9	95.6	141.1	148.6	223.0	212.3
87.5°	22.8	25.8	62.2	68.3	51.6	28.8	44.0	50.1	80.4	92.5
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°
1739.7	0°	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7	1739.7
1770.0	2.5°	1747.3	1753.3	1779.1	1765.5	1773.1	1741.2	1767.0	1745.8	1764.0	1754.9
1783.7	5°	1795.8	1782.2	1797.3	1786.7	1786.7	1798.8	1817.0	1803.4	1830.7	1818.6
1794.3	7.5°	1815.5	1817.0	1826.1	1827.7	1820.1	1858.0	1859.5	1855.0	1880.7	1874.7
1867.1	10°	1864.1	1865.6	1882.3	1891.4	1883.8	1897.4	1882.3	1870.1	1868.6	1862.5
1924.7	12.5°	1941.4	1956.6	1953.5	1961.1	1962.6	1905.0	1870.1	1811.0	1803.4	1811.0
2009.7	15°	2012.7	2006.6	2009.7	2024.8	1961.1	1868.6	1806.4	1756.4	1759.4	1760.9
2120.4	17.5°	2097.6	2102.2	2106.7	2037.0	1920.2	1811.0	1756.4	1756.4	1741.2	1747.3
2197.7	20°	2194.7	2176.5	2137.1	2038.5	1848.9	1744.2	1727.6	1727.6	1709.3	1697.2
2281.2	22.5°	2270.5	2234.1	2175.0	1991.5	1785.2	1718.4	1677.5	1648.7	1627.4	1603.2
2373.7	25°	2319.1	2299.4	2184.1	1942.9	1738.2	1650.2	1589.5	1545.5	1518.2	1486.4
2446.5	27.5°	2393.4	2355.5	2209.9	1886.8	1686.6	1581.9	1487.9	1419.7	1368.1	1334.7
2557.2	30°	2493.5	2438.9	2191.7	1806.4	1607.7	1463.6	1352.9	1264.9	1205.8	1178.5
2661.9	32.5°	2575.4	2504.1	2176.5	1733.6	1519.8	1343.8	1196.7	1107.2	1073.8	1039.0
2837.8	35°	2731.6	2590.6	2165.9	1692.7	1440.9	1224.0	1069.3	991.9	949.5	897.9
2942.4	37.5°	2851.4	2740.7	2140.1	1607.7	1339.3	1107.2	972.2	902.5	838.7	784.1
3185.1	40°	3039.5	2950.0	2141.6	1487.9	1219.4	1007.1	896.4	823.6	743.2	696.2
3544.6	42.5°	3392.9	3156.3	2150.7	1392.4	1084.5	925.2	828.1	741.7	661.3	621.9
3954.1	45°	3826.7	3439.9	2094.6	1305.9	946.4	847.8	746.2	659.8	608.2	579.4
4510.7	47.5°	4325.7	3717.5	2018.8	1143.6	831.2	765.9	670.4	620.3	582.4	565.7
5228.2	50°	4883.9	4114.9	1997.5	995.0	741.7	696.2	634.0	596.1	570.3	550.6
6036.6	52.5°	5602.8	4577.5	1955.1	841.8	664.3	640.1	620.3	594.6	571.8	555.1
6790.4	55°	6289.9	5090.1	1909.6	715.9	609.7	612.8	623.4	600.6	580.9	555.1
7635.2	57.5°	7063.4	5613.4	1741.2	623.4	568.8	599.1	620.3	594.6	574.8	555.1
8499.7	60°	7541.2	5907.6	1412.1	543.0	532.4	573.3	602.1	574.8	553.6	561.2
8897.1	62.5°	7735.3	5752.9	1064.7	492.9	506.6	538.4	573.3	562.7	547.5	576.4
8892.6	65°	7404.7	5396.5	761.4	450.5	471.7	503.6	547.5	559.7	564.2	620.3
8167.6	67.5°	6588.7	4698.8	559.7	415.6	435.3	482.3	565.7	585.5	582.4	652.2
6854.1	70°	5272.1	3675.0	436.8	386.8	421.6	499.0	591.5	591.5	570.3	652.2
5228.2	72.5°	3835.8	2590.6	376.1	353.4	386.8	458.1	588.5	587.0	559.7	596.1
3329.2	75°	2322.1	1507.6	332.2	320.0	332.2	392.8	562.7	553.6	515.7	512.7
1601.7	77.5°	1157.3	758.4	271.5	283.6	289.7	329.1	494.5	508.1	456.5	444.4
632.5	80°	488.4	330.6	226.0	244.2	244.2	277.6	411.0	420.1	379.2	356.4
250.3	82.5°	223.0	189.6	192.6	212.3	198.7	215.4	326.1	336.7	307.9	270.0
106.2	85°	94.0	107.7	147.1	166.8	147.1	139.5	224.5	236.6	200.2	166.8
45.5	87.5°	42.5	59.2	92.5	121.3	74.3	65.2	119.8	124.4	100.1	74.3
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>
1739.7
1738.2
1801.9
1865.6
1862.5
1814.0
1782.2
1748.8
1679.0
1589.5
1492.5
1349.9
1193.7
1037.4
893.4
785.7
700.7
624.9
585.5
562.7
553.6
553.6
553.6
553.6
555.1
568.8
620.3
656.7
638.5
574.8
506.6
436.8
348.8
263.9
168.4
69.8
0.0

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