

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: P477241

Luminaire Tested: **IFLD-M-SA4B-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477241
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

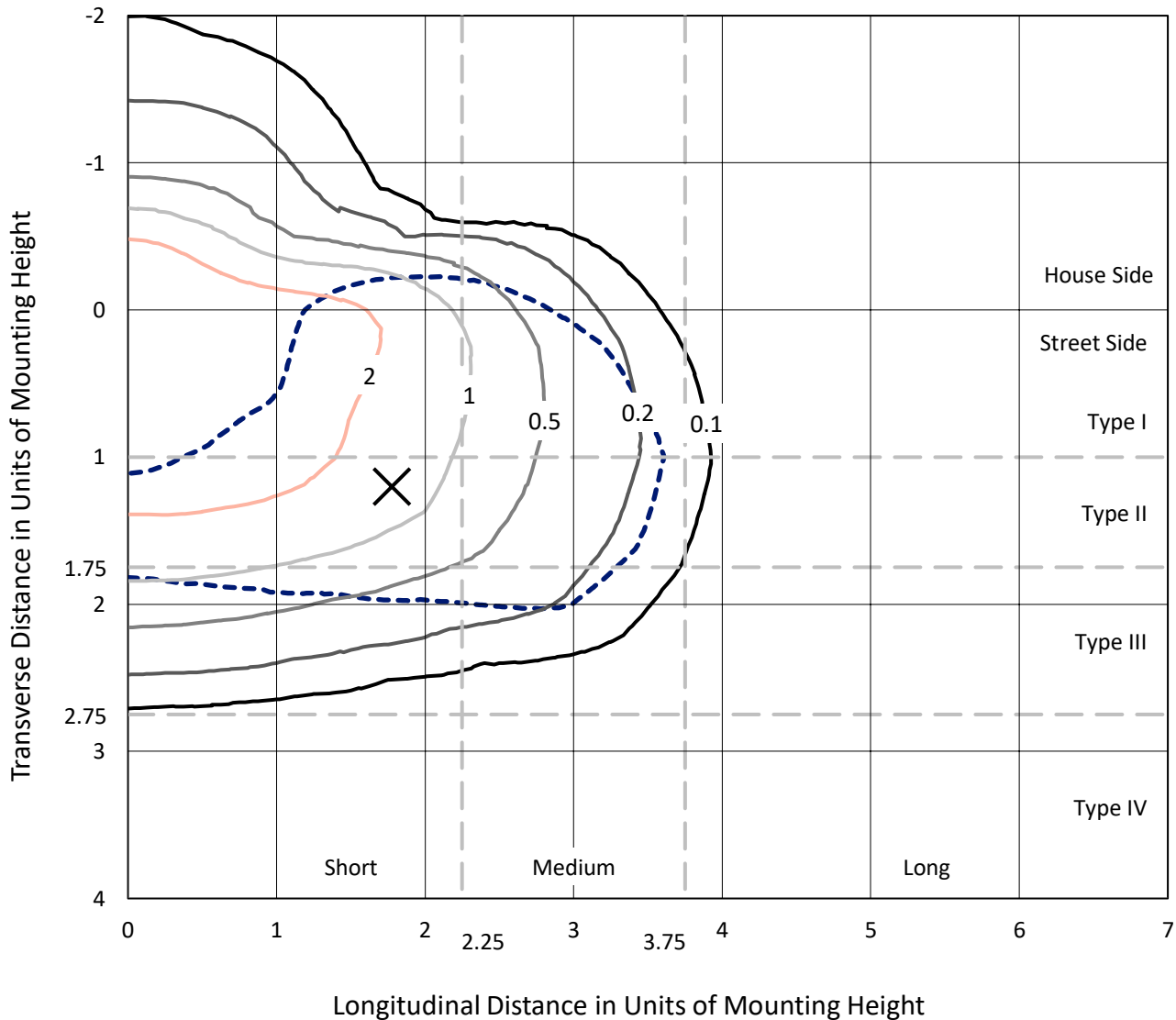
Lumens per Lamp: N/A
Luminaire Lumens: 17135.1 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

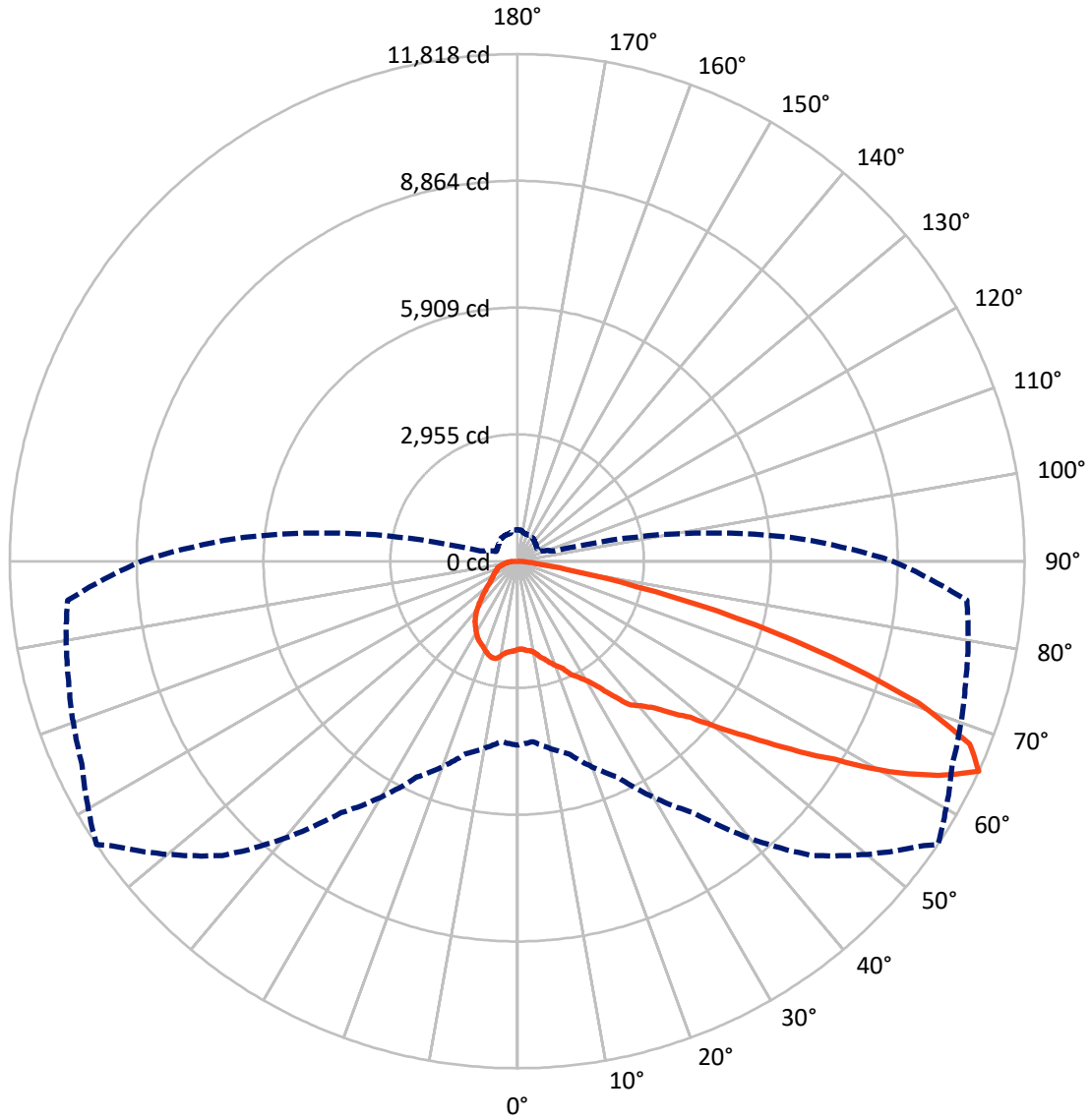
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3842.9	0.0	3842.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13292.3	0.0	13292.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	17135.1	0.0	17135.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.2
10°-20°	661.8	3.9
20°-30°	1178.4	6.9
30°-40°	1764.6	10.3
40°-50°	2614.5	15.3
50°-60°	4028.5	23.5
60°-70°	4560.8	26.6
70°-80°	1892.8	11.0
80°-90°	229.9	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°	17135.1	100.0
0°-180°	17135.1	100.0

Coefficient of Utilization

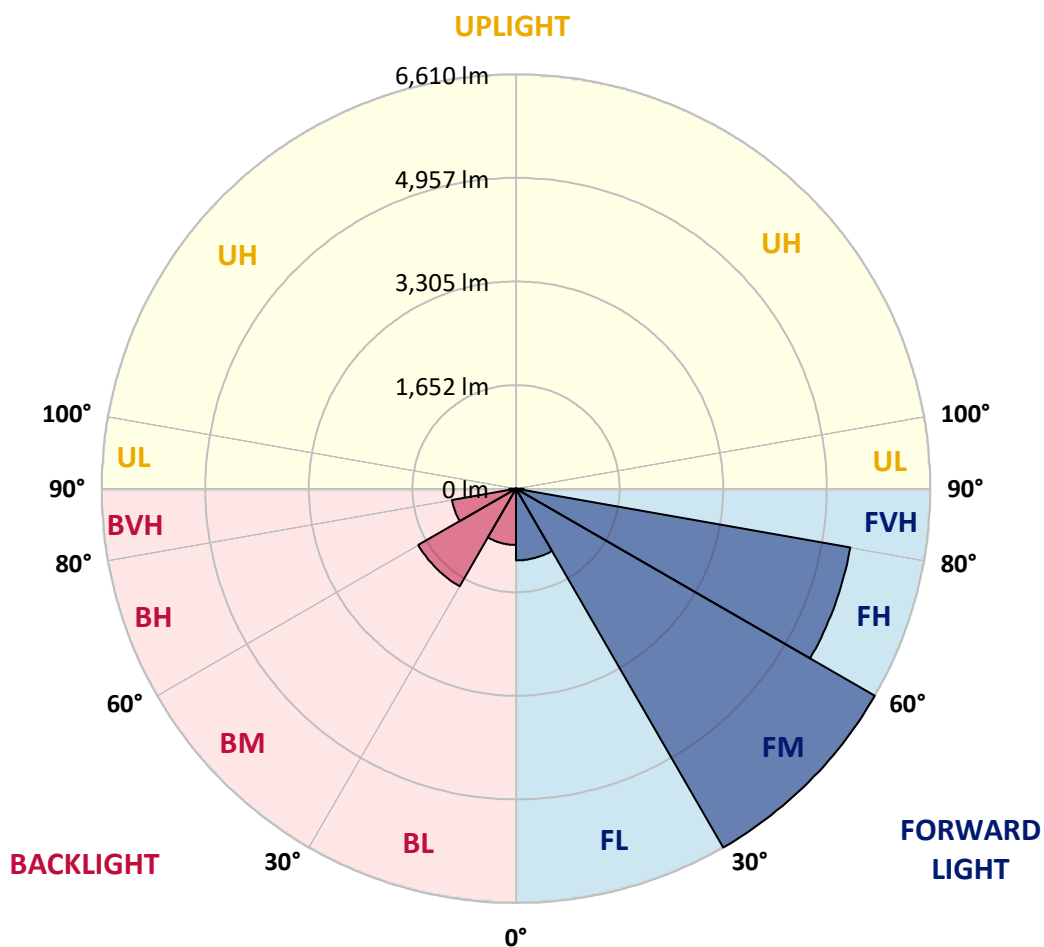


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.1	6.7			
FM (30°-60°)	6610.0	38.6			
FH (60°-80°)	5415.9	31.6			G3/7500
FVH (80°-90°)	121.3	0.7			G2/225
BL (0°-30°)	898.9	5.2	B2/1000		
BM (30°-60°)	1797.6	10.5	B2/2500		
BH (60°-80°)	1037.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	108.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7
2.5°	2002.9	2013.7	2006.5	2028.0	2045.9	2045.9	2060.3	2049.5	2063.9	2083.6
5°	2069.3	2026.2	2049.5	2060.3	2054.9	2063.9	2049.5	2085.4	2062.1	2099.7
7.5°	2085.4	2101.5	2121.3	2103.3	2119.5	2110.5	2112.3	2106.9	2094.4	2124.8
10°	2203.7	2180.4	2225.3	2198.4	2194.8	2191.2	2184.0	2157.1	2187.6	2189.4
12.5°	2340.0	2318.5	2316.7	2295.2	2323.9	2271.9	2282.6	2268.3	2273.7	2280.8
15°	2438.6	2429.7	2470.9	2445.8	2408.2	2384.8	2409.9	2370.5	2390.2	2386.6
17.5°	2634.1	2632.3	2601.8	2560.6	2539.1	2505.0	2499.6	2483.5	2497.8	2490.6
20°	2770.4	2790.1	2795.5	2747.1	2664.6	2626.9	2617.9	2605.4	2621.5	2616.2
22.5°	2978.4	2947.9	2971.2	2886.9	2856.4	2766.8	2734.5	2716.6	2793.7	2773.9
25°	3111.1	3143.3	3120.0	3091.3	3023.2	2912.0	2888.7	2928.2	2958.6	2937.1
27.5°	3410.5	3378.2	3356.7	3270.6	3225.8	3109.3	3082.4	3068.0	3075.2	3087.7
30°	3638.2	3656.2	3607.7	3546.8	3433.8	3315.5	3252.7	3240.2	3215.1	3193.5
32.5°	3962.8	3935.9	3907.2	3867.7	3770.9	3614.9	3554.0	3507.3	3432.0	3331.6
35°	4118.8	4195.9	4174.4	4068.6	3995.1	3935.9	3918.0	3846.2	3783.5	3625.7
37.5°	4378.8	4411.1	4380.6	4346.5	4312.4	4249.7	4228.2	4247.9	4124.2	3864.2
40°	4547.3	4615.5	4678.2	4583.2	4576.0	4588.6	4455.9	4432.6	4178.0	4041.7
42.5°	4891.6	4920.3	4932.9	4929.3	4970.5	4970.5	4717.7	4667.5	4486.4	4375.2
45°	5347.1	5370.4	5415.2	5447.5	5400.9	5424.2	5063.8	5044.0	4882.7	4861.1
47.5°	5741.6	5797.1	5897.6	5992.6	6053.6	5974.7	5580.2	5440.3	5399.1	5528.2
50°	6085.8	6019.5	6254.4	6351.2	6618.4	6749.3	6150.4	6094.8	6028.5	6275.9
52.5°	6119.9	6209.6	6541.3	6734.9	7285.4	7527.5	6849.7	6826.4	6745.7	7030.8
55°	6363.8	6353.0	6686.5	7106.1	7760.6	8167.6	7760.6	7746.3	7570.5	7841.3
57.5°	6322.5	6431.9	6695.5	7281.8	8189.2	8854.4	8816.7	8718.1	8472.5	8693.0
60°	6182.7	6211.3	6532.3	7276.5	8438.4	9559.1	9957.2	9976.9	9474.8	9650.5
62.5°	5390.1	5456.4	5863.5	6704.5	8260.9	10045.0	11070.7	11000.8	10599.1	10398.3
65°	4287.3	4221.0	4644.2	5553.3	7156.3	9700.8	11558.4	11818.4	11187.2	10819.7
67.5°	2628.7	2612.6	3019.6	3821.1	5354.2	8255.5	11169.3	11371.9	11024.1	10730.0
70°	1353.8	1312.6	1567.2	2132.0	3365.7	6057.1	9720.5	9919.5	10251.2	9623.6
72.5°	631.2	622.2	758.5	1049.0	1714.2	3561.1	7527.5	7670.9	8370.3	8113.8
75°	371.2	376.6	453.7	548.7	835.6	1678.4	4995.6	5273.6	6032.0	5847.3
77.5°	277.9	277.9	322.8	381.9	487.7	649.1	2465.5	2833.1	3527.1	3172.0
80°	204.4	208.0	247.4	286.9	338.9	335.3	979.0	1147.6	1617.4	1382.5
82.5°	159.6	165.0	191.9	213.4	238.5	202.6	401.7	432.1	665.2	529.0
85°	111.2	114.8	150.6	145.2	145.2	113.0	166.8	175.7	263.6	251.0
87.5°	26.9	30.5	73.5	80.7	61.0	34.1	52.0	59.2	95.0	109.4
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°
2056.7	0°	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7	2056.7
2092.6	2.5°	2065.7	2072.8	2103.3	2087.2	2096.2	2058.5	2089.0	2063.9	2085.4	2074.6
2108.7	5°	2123.0	2106.9	2124.8	2112.3	2112.3	2126.6	2148.2	2132.0	2164.3	2149.9
2121.3	7.5°	2146.4	2148.2	2158.9	2160.7	2151.7	2196.6	2198.4	2193.0	2223.5	2216.3
2207.3	10°	2203.7	2205.5	2225.3	2236.0	2227.0	2243.2	2225.3	2210.9	2209.1	2201.9
2275.5	12.5°	2295.2	2313.1	2309.5	2318.5	2320.3	2252.2	2210.9	2141.0	2132.0	2141.0
2375.9	15°	2379.5	2372.3	2375.9	2393.8	2318.5	2209.1	2135.6	2076.4	2080.0	2081.8
2506.8	17.5°	2479.9	2485.3	2490.6	2408.2	2270.1	2141.0	2076.4	2076.4	2058.5	2065.7
2598.2	20°	2594.6	2573.1	2526.5	2409.9	2185.8	2062.1	2042.4	2042.4	2020.8	2006.5
2696.8	22.5°	2684.3	2641.3	2571.3	2354.4	2110.5	2031.6	1983.2	1949.1	1924.0	1895.3
2806.2	25°	2741.7	2718.4	2582.1	2297.0	2054.9	1950.9	1879.2	1827.2	1794.9	1757.3
2892.3	27.5°	2829.5	2784.7	2612.6	2230.6	1993.9	1870.2	1759.0	1678.4	1617.4	1577.9
3023.2	30°	2947.9	2883.3	2591.1	2135.6	1900.7	1730.4	1599.5	1495.5	1425.5	1393.3
3146.9	32.5°	3044.7	2960.4	2573.1	2049.5	1796.7	1588.7	1414.8	1309.0	1269.5	1228.3
3354.9	35°	3229.4	3062.6	2560.6	2001.1	1703.5	1447.0	1264.1	1172.7	1122.5	1061.5
3478.6	37.5°	3371.1	3240.2	2530.1	1900.7	1583.3	1309.0	1149.4	1066.9	991.6	927.0
3765.5	40°	3593.4	3487.6	2531.9	1759.0	1441.7	1190.6	1059.7	973.7	878.6	823.0
4190.5	42.5°	4011.2	3731.5	2542.6	1646.1	1282.1	1093.8	979.0	876.8	781.8	735.2
4674.7	45°	4524.0	4066.8	2476.3	1543.9	1118.9	1002.4	882.2	780.0	719.0	685.0
5332.7	47.5°	5114.0	4394.9	2386.6	1352.0	982.6	905.5	792.6	733.4	688.6	668.8
6180.9	50°	5773.8	4864.7	2361.5	1176.3	876.8	823.0	749.5	704.7	674.2	650.9
7136.6	52.5°	6623.8	5411.6	2311.3	995.2	785.4	756.7	733.4	702.9	676.0	656.3
8027.8	55°	7436.0	6017.7	2257.5	846.4	720.8	724.4	737.0	710.1	686.8	656.3
9026.5	57.5°	8350.5	6636.3	2058.5	737.0	672.4	708.3	733.4	702.9	679.6	656.3
10048.6	60°	8915.4	6984.2	1669.4	641.9	629.4	677.8	711.9	679.6	654.5	663.5
10518.4	62.5°	9144.9	6801.3	1258.8	582.8	598.9	636.6	677.8	665.2	647.3	681.4
10513.0	65°	8754.0	6379.9	900.1	532.6	557.7	595.3	647.3	661.7	667.0	733.4
9655.9	67.5°	7789.3	5555.1	661.7	491.3	514.6	570.2	668.8	692.1	688.6	771.0
8103.1	70°	6232.9	4344.7	516.4	457.2	498.5	589.9	699.3	699.3	674.2	771.0
6180.9	72.5°	4534.8	3062.6	444.7	417.8	457.2	541.5	695.7	693.9	661.7	704.7
3935.9	75°	2745.3	1782.4	392.7	378.3	392.7	464.4	665.2	654.5	609.7	606.1
1893.5	77.5°	1368.1	896.6	321.0	335.3	342.5	389.1	584.6	600.7	539.7	525.4
747.7	80°	577.4	390.9	267.2	288.7	288.7	328.1	485.9	496.7	448.3	421.4
295.9	82.5°	263.6	224.1	227.7	251.0	234.9	254.6	385.5	398.1	364.0	319.2
125.5	85°	111.2	127.3	173.9	197.2	173.9	165.0	265.4	279.7	236.7	197.2
53.8	87.5°	50.2	69.9	109.4	143.4	87.9	77.1	141.7	147.0	118.3	87.9
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



180°
2056.7
2054.9
2130.2
2205.5
2201.9
2144.6
2106.9
2067.5
1985.0
1879.2
1764.4
1595.9
1411.2
1226.5
1056.1
928.8
828.4
738.8
692.1
665.2
654.5
654.5
654.5
654.5
656.3
672.4
733.4
776.4
754.9
679.6
598.9
516.4
412.4
312.0
199.0
82.5
0.0

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