

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: P477297

Luminaire Tested: **IFLD-S-SA2E-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477297
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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

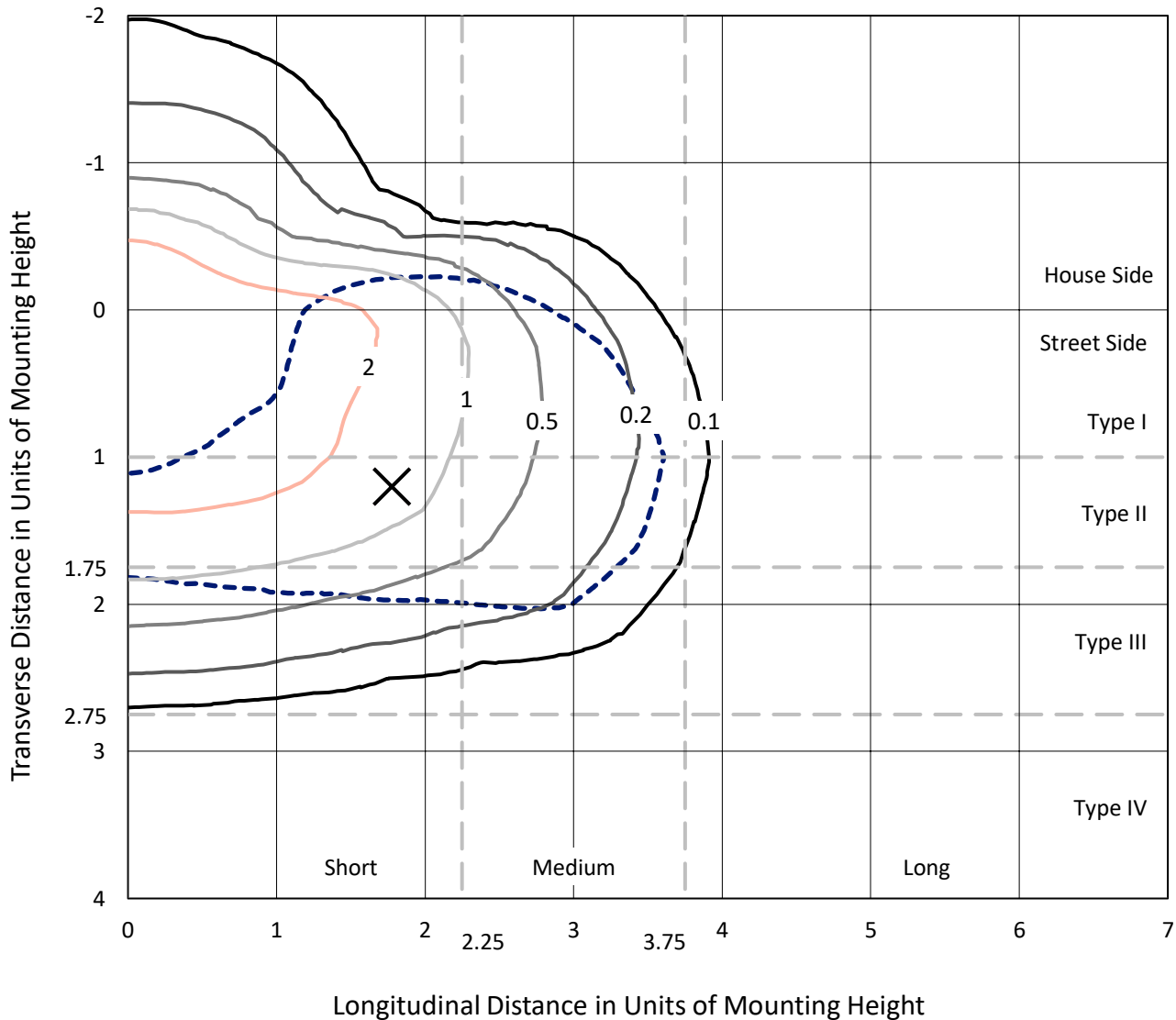
Lumens per Lamp: N/A
Luminaire Lumens: 16786.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

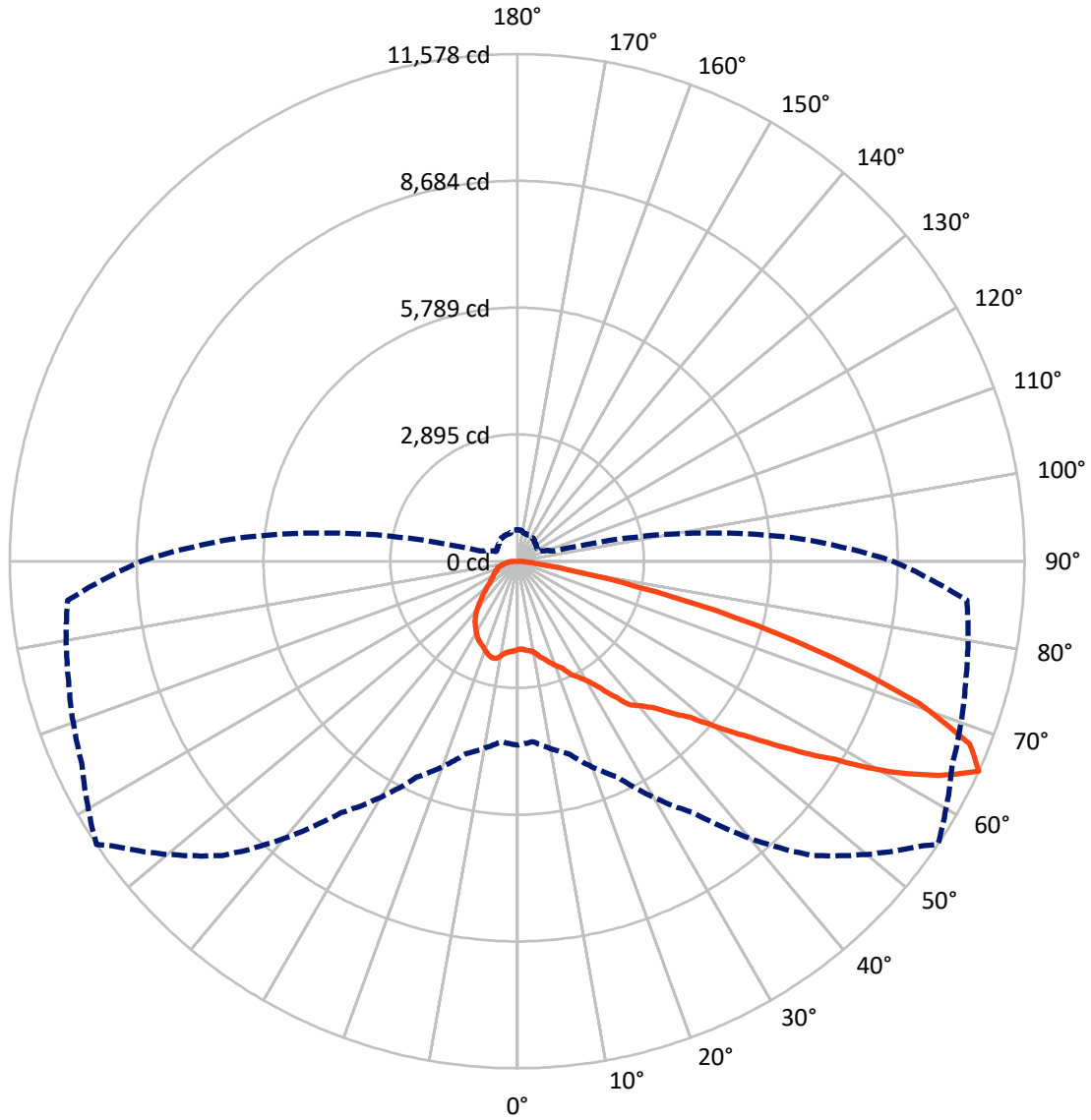
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3764.7	0.0	3764.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13021.8	0.0	13021.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	16786.5	0.0	16786.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.2
10°-20°	648.3	3.9
20°-30°	1154.4	6.9
30°-40°	1728.7	10.3
40°-50°	2561.3	15.3
50°-60°	3946.6	23.5
60°-70°	4468.0	26.6
70°-80°	1854.3	11.0
80°-90°	225.3	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°	16786.5	100.0
0°-180°	16786.5	100.0

Coefficient of Utilization

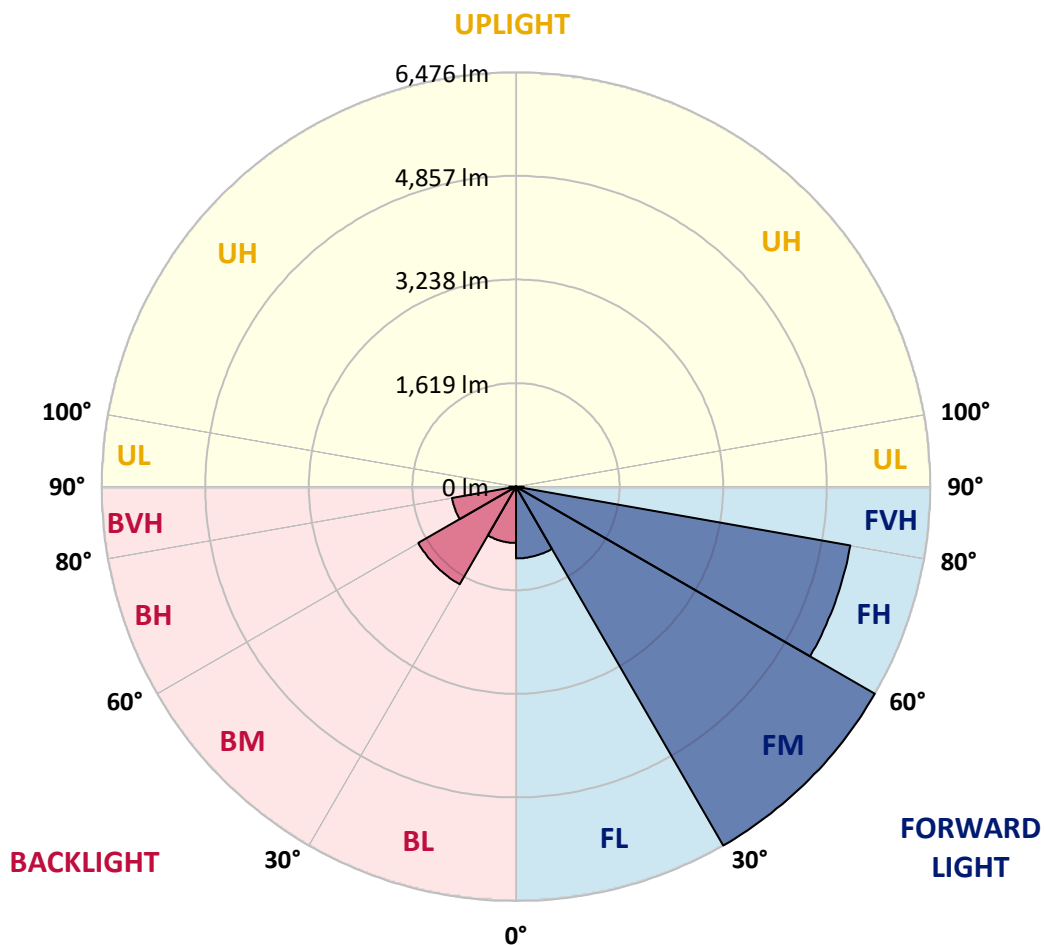


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.8	6.7			
FM (30°-60°)	6475.5	38.6			
FH (60°-80°)	5305.7	31.6			G3/7500
FVH (80°-90°)	118.8	0.7			G2/225
BL (0°-30°)	880.6	5.2	B2/1000		
BM (30°-60°)	1761.0	10.5	B2/2500		
BH (60°-80°)	1016.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	106.4	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°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	1962.2	1972.7	1965.7	1986.8	2004.3	2004.3	2018.4	2007.8	2021.9	2041.2
5°	2027.2	1985.0	2007.8	2018.4	2013.1	2021.9	2007.8	2043.0	2020.1	2057.0
7.5°	2043.0	2058.8	2078.1	2060.5	2076.3	2067.6	2069.3	2064.0	2051.8	2081.6
10°	2158.9	2136.1	2180.0	2153.6	2150.1	2146.6	2139.6	2113.2	2143.1	2144.9
12.5°	2292.4	2271.3	2269.6	2248.5	2276.6	2225.7	2236.2	2222.1	2227.4	2234.4
15°	2389.0	2380.2	2420.6	2396.1	2359.2	2336.3	2360.9	2322.3	2341.6	2338.1
17.5°	2580.5	2578.7	2548.9	2508.5	2487.4	2454.0	2448.8	2432.9	2447.0	2440.0
20°	2714.0	2733.3	2738.6	2691.2	2610.4	2573.5	2564.7	2552.4	2568.2	2562.9
22.5°	2917.8	2887.9	2910.7	2828.2	2798.3	2710.5	2678.9	2661.3	2736.8	2717.5
25°	3047.8	3079.4	3056.5	3028.4	2961.7	2852.8	2829.9	2868.6	2898.4	2877.4
27.5°	3341.1	3309.5	3288.4	3204.1	3160.2	3046.0	3019.7	3005.6	3012.6	3024.9
30°	3564.2	3581.8	3534.4	3474.6	3364.0	3248.0	3186.5	3174.2	3149.6	3128.6
32.5°	3882.2	3855.8	3827.7	3789.1	3694.2	3541.4	3481.7	3436.0	3362.2	3263.8
35°	4035.0	4110.5	4089.4	3985.8	3913.8	3855.8	3838.3	3768.0	3706.5	3551.9
37.5°	4289.7	4321.3	4291.5	4258.1	4224.7	4163.2	4142.1	4161.5	4040.3	3785.6
40°	4454.8	4521.6	4583.1	4490.0	4482.9	4495.2	4365.2	4342.4	4093.0	3959.5
42.5°	4792.1	4820.2	4832.5	4829.0	4869.4	4869.4	4621.7	4572.5	4395.1	4286.2
45°	5238.3	5261.1	5305.0	5336.7	5291.0	5313.8	4960.7	4941.4	4783.3	4762.2
47.5°	5624.7	5679.2	5777.6	5870.7	5930.4	5853.1	5466.7	5329.6	5289.2	5415.7
50°	5962.0	5897.0	6127.1	6222.0	6483.7	6612.0	6025.3	5970.8	5905.8	6148.2
52.5°	5995.4	6083.2	6408.2	6597.9	7137.2	7374.4	6710.4	6687.5	6608.5	6887.8
55°	6234.3	6223.8	6550.5	6961.5	7602.7	8001.5	7602.7	7588.7	7416.5	7681.8
57.5°	6193.9	6301.1	6559.3	7133.7	8022.6	8674.3	8637.4	8540.8	8300.1	8516.2
60°	6056.9	6085.0	6399.4	7128.4	8266.7	9364.6	9754.6	9773.9	9282.1	9454.2
62.5°	5280.4	5345.4	5744.2	6568.1	8092.8	9840.7	10845.5	10777.0	10383.5	10186.7
65°	4200.1	4135.1	4549.7	5440.3	7010.7	9503.4	11323.3	11578.0	10959.7	10599.5
67.5°	2575.2	2559.4	2958.2	3743.4	5245.3	8087.6	10942.1	11140.6	10799.8	10511.7
70°	1326.3	1285.9	1535.3	2088.6	3297.2	5933.9	9522.7	9717.7	10042.7	9427.9
72.5°	618.3	609.6	743.1	1027.6	1679.3	3488.7	7374.4	7514.9	8200.0	7948.8
75°	363.6	368.9	444.4	537.5	818.6	1644.2	4894.0	5166.3	5909.3	5728.4
77.5°	272.3	272.3	316.2	374.2	477.8	635.9	2415.4	2775.5	3455.3	3107.5
80°	200.3	203.8	242.4	281.1	332.0	328.5	959.1	1124.2	1584.5	1354.4
82.5°	156.3	161.6	188.0	209.0	233.6	198.5	393.5	423.3	651.7	518.2
85°	108.9	112.4	147.6	142.3	142.3	110.7	163.4	172.2	258.2	245.9
87.5°	26.3	29.9	72.0	79.0	59.7	33.4	50.9	58.0	93.1	107.2
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°
2014.9	0°	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9	2014.9
2050.0	2.5°	2023.6	2030.7	2060.5	2044.7	2053.5	2016.6	2046.5	2021.9	2043.0	2032.4
2065.8	5°	2079.9	2064.0	2081.6	2069.3	2069.3	2083.4	2104.5	2088.6	2120.3	2106.2
2078.1	7.5°	2102.7	2104.5	2115.0	2116.7	2108.0	2151.9	2153.6	2148.4	2178.2	2171.2
2162.4	10°	2158.9	2160.7	2180.0	2190.5	2181.7	2197.6	2180.0	2165.9	2164.2	2157.1
2229.2	12.5°	2248.5	2266.1	2262.5	2271.3	2273.1	2206.3	2165.9	2097.4	2088.6	2097.4
2327.5	15°	2331.1	2324.0	2327.5	2345.1	2271.3	2164.2	2092.2	2034.2	2037.7	2039.5
2455.8	17.5°	2429.4	2434.7	2440.0	2359.2	2223.9	2097.4	2034.2	2034.2	2016.6	2023.6
2545.4	20°	2541.9	2520.8	2475.1	2360.9	2141.3	2020.1	2000.8	2000.8	1979.7	1965.7
2642.0	22.5°	2629.7	2587.5	2519.0	2306.5	2067.6	1990.3	1942.8	1909.5	1884.9	1856.8
2749.1	25°	2685.9	2663.1	2529.6	2250.3	2013.1	1911.2	1841.0	1790.0	1758.4	1721.5
2833.5	27.5°	2772.0	2728.1	2559.4	2185.3	1953.4	1832.2	1723.3	1644.2	1584.5	1545.8
2961.7	30°	2887.9	2824.7	2538.3	2092.2	1862.0	1695.2	1566.9	1465.0	1396.5	1364.9
3082.9	32.5°	2982.8	2900.2	2520.8	2007.8	1760.1	1556.4	1386.0	1282.3	1243.7	1203.3
3286.7	35°	3163.7	3000.3	2508.5	1960.4	1668.8	1417.6	1238.4	1148.8	1099.7	1039.9
3407.9	37.5°	3302.5	3174.2	2478.6	1862.0	1551.1	1282.3	1126.0	1045.2	971.4	908.2
3688.9	40°	3520.3	3416.7	2480.4	1723.3	1412.3	1166.4	1038.2	953.9	860.8	806.3
4105.3	42.5°	3929.6	3655.6	2490.9	1612.6	1256.0	1071.5	959.1	859.0	765.9	720.2
4579.6	45°	4432.0	3984.1	2425.9	1512.5	1096.1	982.0	864.3	764.1	704.4	671.0
5224.2	47.5°	5009.9	4305.5	2338.1	1324.5	962.6	887.1	776.4	718.5	674.5	655.2
6055.1	50°	5656.4	4765.8	2313.5	1152.4	859.0	806.3	734.3	690.4	660.5	637.7
6991.4	52.5°	6489.0	5301.5	2264.3	974.9	769.4	741.3	718.5	688.6	662.3	642.9
7864.5	55°	7284.8	5895.3	2211.6	829.1	706.2	709.7	722.0	695.6	672.8	642.9
8842.9	57.5°	8180.7	6501.3	2016.6	722.0	658.7	693.9	718.5	688.6	665.8	642.9
9844.2	60°	8734.0	6842.1	1635.4	628.9	616.6	664.0	697.4	665.8	641.2	650.0
10304.4	62.5°	8958.8	6662.9	1233.2	570.9	586.7	623.6	664.0	651.7	634.1	667.5
10299.2	65°	8575.9	6250.1	881.8	521.7	546.3	583.2	634.1	648.2	653.5	718.5
9459.5	67.5°	7630.8	5442.1	648.2	481.3	504.2	558.6	655.2	678.1	674.5	755.4
7938.2	70°	6106.1	4256.3	505.9	447.9	488.3	577.9	685.1	685.1	660.5	755.4
6055.1	72.5°	4442.5	3000.3	435.6	409.3	447.9	530.5	681.6	679.8	648.2	690.4
3855.8	75°	2689.4	1746.1	384.7	370.7	384.7	455.0	651.7	641.2	597.3	593.7
1855.0	77.5°	1340.3	878.3	314.4	328.5	335.5	381.2	572.7	588.5	528.7	514.7
732.5	80°	565.6	382.9	261.7	282.8	282.8	321.5	476.0	486.6	439.2	412.8
289.8	82.5°	258.2	219.6	223.1	245.9	230.1	249.4	377.7	390.0	356.6	312.7
123.0	85°	108.9	124.7	170.4	193.2	170.4	161.6	260.0	274.0	231.9	193.2
52.7	87.5°	49.2	68.5	107.2	140.5	86.1	75.5	138.8	144.0	115.9	86.1
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>
2014.9
2013.1
2086.9
2160.7
2157.1
2100.9
2064.0
2025.4
1944.6
1841.0
1728.5
1563.4
1382.5
1201.5
1034.7
909.9
811.6
723.7
678.1
651.7
641.2
641.2
641.2
641.2
642.9
658.7
718.5
760.6
739.5
665.8
586.7
505.9
404.0
305.7
195.0
80.8
0.0

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