

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: P477793

Luminaire Tested: **IFLD-L-SA7C-740-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

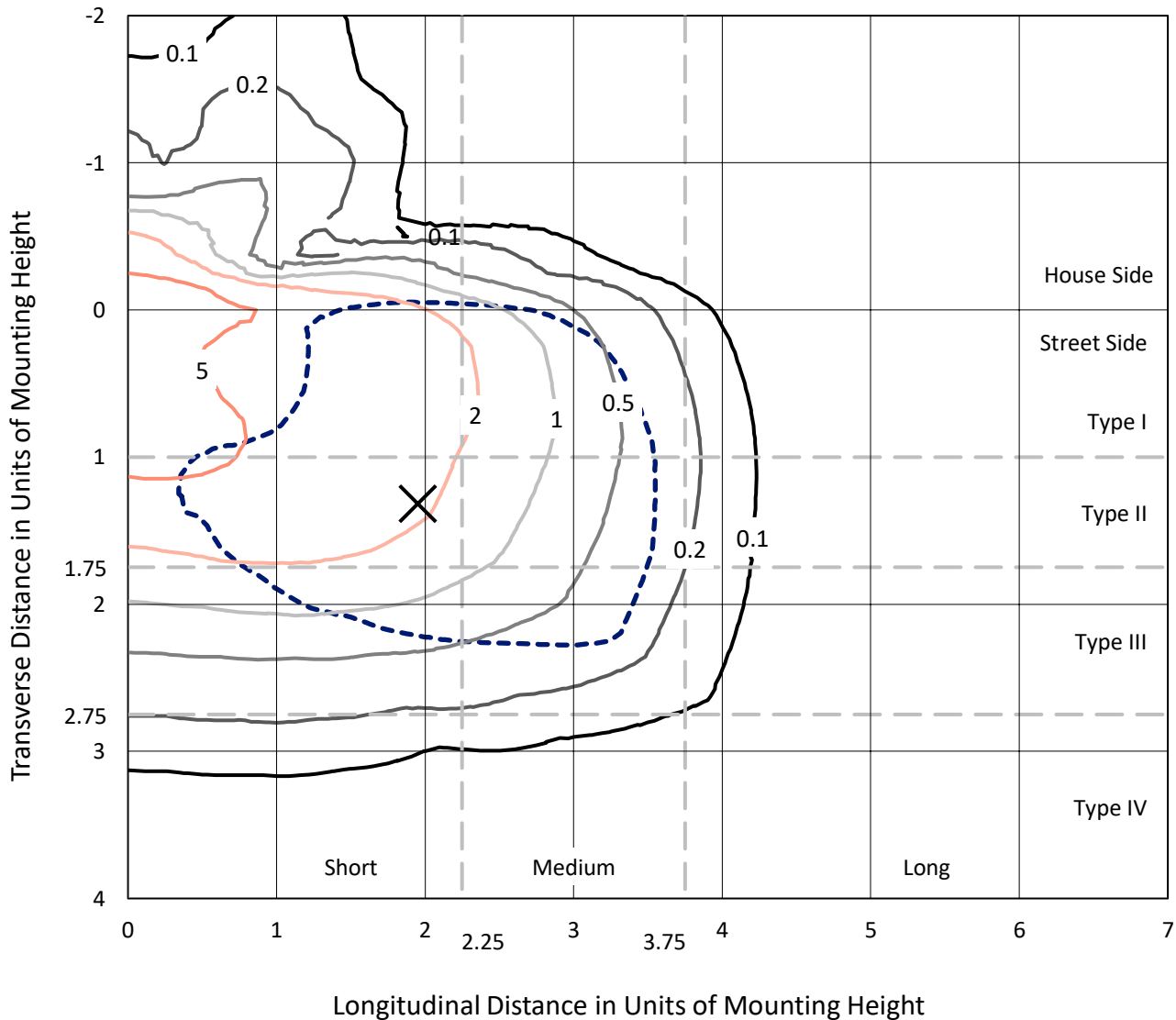
Lumens per Lamp: N/A
Luminaire Lumens: 43546.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

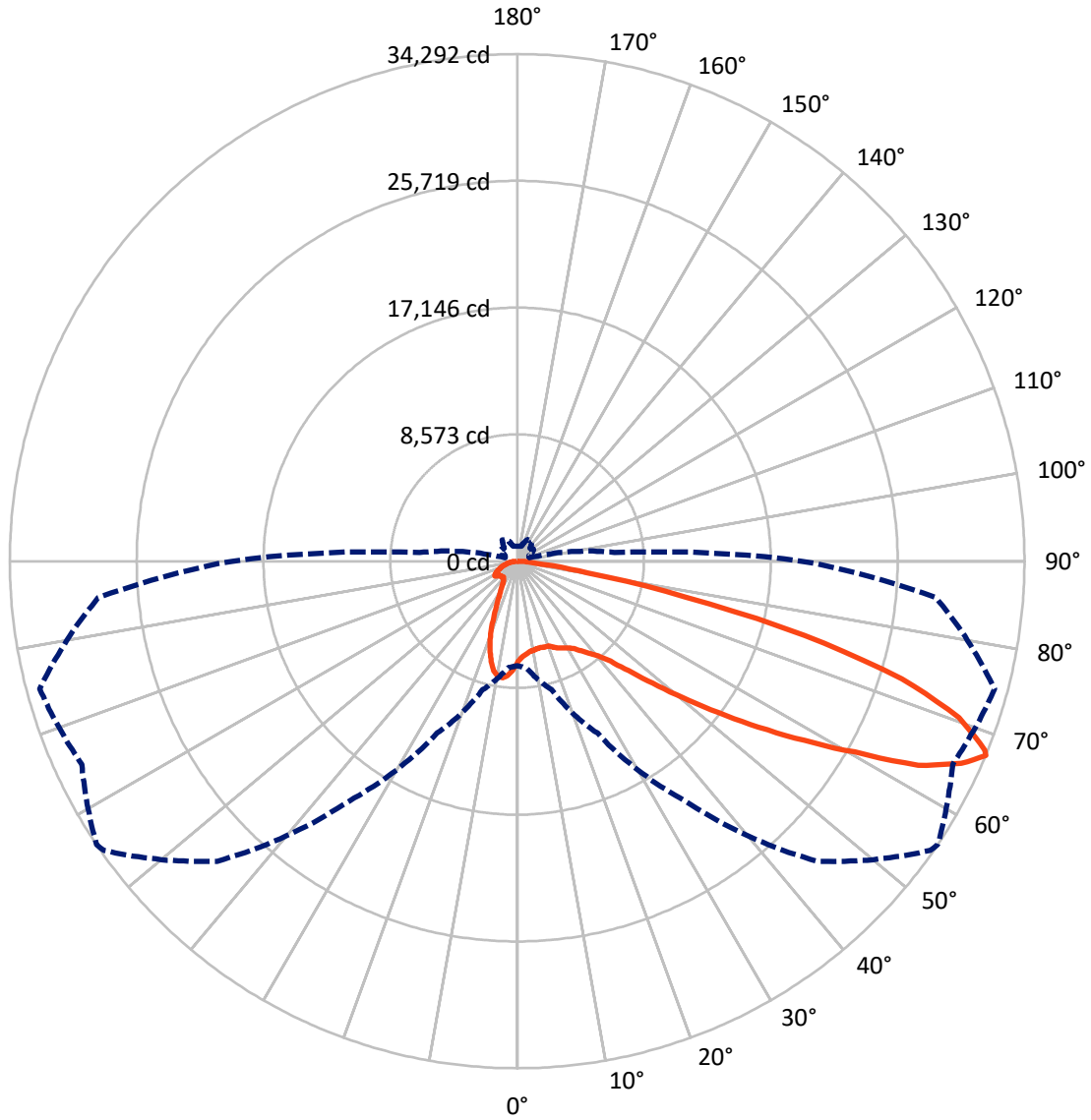
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	6893.8	0.0	6893.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	36652.3	0.0	36652.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	43546.1	0.0	43546.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.8	1.5
10°-20°	1780.8	4.1
20°-30°	2792.8	6.4
30°-40°	3986.7	9.2
40°-50°	6017.1	13.8
50°-60°	9578.3	22.0
60°-70°	12245.0	28.1
70°-80°	5970.3	13.7
80°-90°	522.3	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°	43546.1	100.0
0°-180°	43546.1	100.0

Coefficient of Utilization

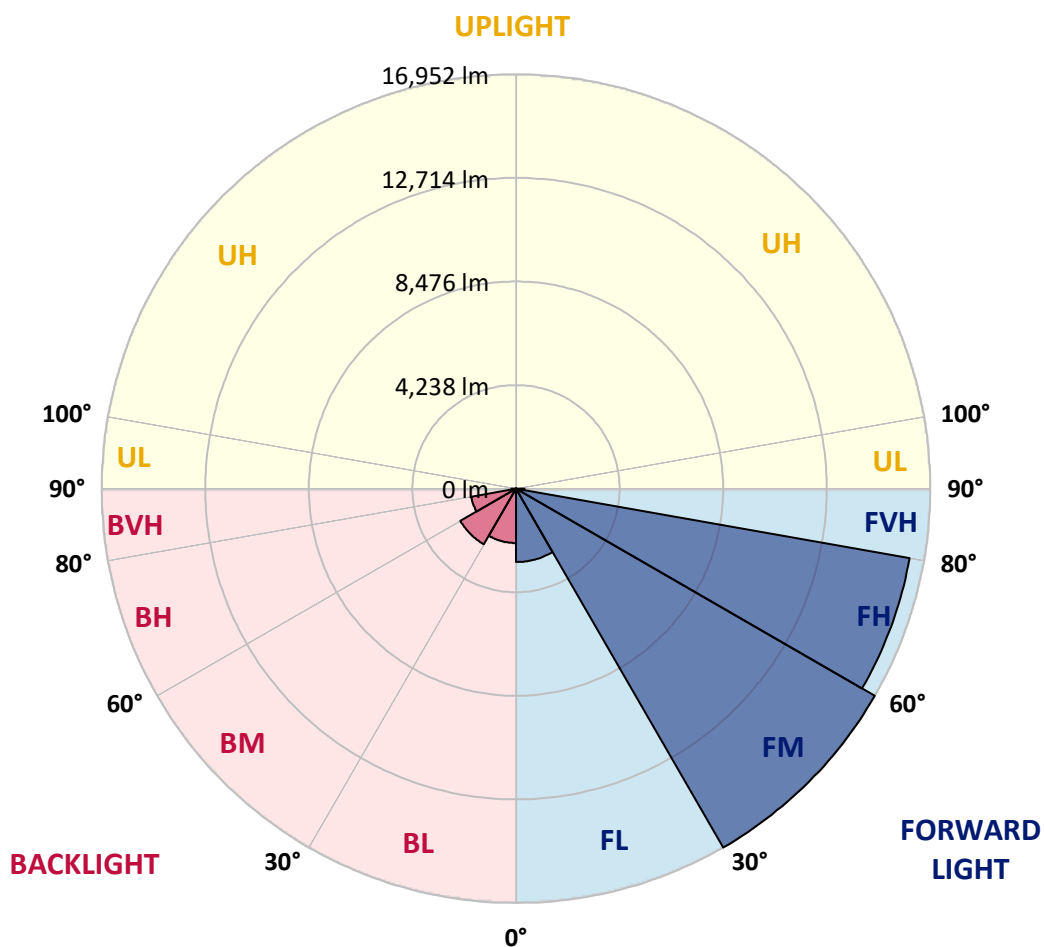


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3000.8	6.9			
FM (30°-60°)	16952.1	38.9			
FH (60°-80°)	16352.5	37.6			G5
FVH (80°-90°)	346.9	0.8			G3/500
BL (0°-30°)	2225.5	5.1	B3/2500		
BM (30°-60°)	2630.0	6.0	B3/5000		
BH (60°-80°)	1862.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	175.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7
2.5°	6224.2	6198.7	6229.3	6198.7	6336.5	6418.2	6443.8	6479.5	6607.2	6729.7
5°	5963.8	5851.5	5974.0	6014.9	6025.1	6162.9	6305.9	6331.4	6397.8	6596.9
7.5°	5529.8	5657.4	5611.5	5734.0	5861.7	5999.5	6234.4	6168.0	6413.1	6602.0
10°	5437.9	5448.1	5499.2	5545.1	5657.4	5836.1	6162.9	6122.1	6372.3	6775.7
12.5°	5529.8	5529.8	5514.5	5478.7	5606.4	5780.0	6040.4	6060.8	6454.0	6826.7
15°	5851.5	5912.7	5749.3	5774.9	5723.8	5780.0	6009.8	6055.7	6484.6	6867.6
17.5°	6637.8	6617.4	6423.3	6152.7	5928.1	5892.3	6050.6	6101.7	6454.0	6985.0
20°	7403.7	7362.8	7025.8	6745.0	6300.8	6091.4	6117.0	6122.1	6505.0	7061.6
22.5°	8256.4	8363.6	7996.0	7424.1	6872.7	6351.9	6249.7	6331.4	6622.5	7102.4
25°	9594.2	9364.4	9047.8	8297.2	7408.8	6755.2	6469.3	6510.1	6734.8	7204.6
27.5°	10559.2	10467.3	9972.0	9364.4	8159.4	7071.8	6586.7	6663.3	6939.0	7199.4
30°	11488.5	11488.5	11187.2	10278.4	8950.8	7602.8	6836.9	6801.2	6842.0	7189.2
32.5°	12576.1	12428.0	11994.0	11391.5	9946.5	8087.9	7036.1	7046.3	7046.3	7378.2
35°	13147.9	13387.9	13096.9	12116.5	10707.3	8894.6	7516.0	7439.4	7383.3	7587.5
37.5°	13985.3	14128.3	13821.9	13244.9	11651.9	9548.2	7939.8	7878.5	7551.8	7750.9
40°	14490.8	14465.3	14455.1	14189.6	12902.8	10319.2	8562.7	8404.5	7965.3	8327.9
42.5°	14776.7	14725.7	15353.7	15190.3	14082.3	11452.7	9344.0	9257.2	8772.1	9354.2
45°	15098.4	15476.3	15992.0	16451.5	15455.8	13045.8	10666.4	10543.9	10109.9	10850.2
47.5°	15379.2	15843.9	16502.6	16992.7	16696.6	14776.7	12300.3	12331.0	12045.0	12805.8
50°	15849.0	15895.0	16788.5	17779.1	18008.8	16374.9	14495.9	14444.9	14317.2	15384.4
52.5°	15706.0	15843.9	16972.3	18238.6	18616.4	18065.0	16854.9	17008.1	16839.6	18182.4
55°	13377.7	13791.3	16860.0	18723.7	20056.3	19974.6	19887.8	19785.7	19775.5	21327.7
57.5°	12320.8	12657.8	14853.3	19259.8	21598.3	22200.9	22762.5	22874.8	22869.7	24743.6
60°	11626.3	11973.6	14041.5	18968.8	22910.6	25116.4	26193.7	26209.1	26178.4	28394.4
62.5°	10268.2	10605.1	12637.3	17375.7	23273.1	27807.2	30207.1	30406.2	29002.0	31539.7
65°	8634.2	8910.0	10702.2	14940.1	22308.1	29517.7	33224.7	32989.8	31381.4	33337.0
67°	7061.6	7245.4	8991.7	12826.3	19785.7	28695.7	34097.8	34291.8	32479.2	33413.6
67.5°	6612.3	6780.8	8430.0	12106.3	18825.8	28072.7	34128.5	34097.8	32499.6	33428.9
70°	4590.3	4661.8	5744.2	8327.9	13867.9	23717.3	31636.7	31708.2	31136.3	31616.3
72.5°	3043.2	3150.4	3839.7	5249.0	8174.7	17258.3	26443.9	27209.8	26847.3	25923.1
75°	1960.7	2022.0	2512.1	3124.9	4023.5	9829.0	19535.5	20046.1	19213.8	16032.8
77.5°	1097.8	1164.2	1516.5	1899.4	1960.7	4089.9	10972.8	11605.9	9834.1	6811.4
80°	684.2	771.0	1143.7	1128.4	934.4	1501.2	4523.9	4845.6	3931.6	2343.7
82.5°	515.7	582.1	883.3	791.4	525.9	668.9	1695.2	1817.7	1439.9	903.8
85°	352.3	444.2	638.2	490.2	275.7	321.7	674.0	725.1	658.7	439.1
87.5°	127.6	188.9	331.9	245.1	122.5	97.0	219.6	245.1	234.9	199.1
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°
6775.7	0°	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7	6775.7
6836.9	2.5°	6933.9	7005.4	7041.2	7250.5	7337.3	7322.0	7342.4	7373.1	7403.7	7444.5
6923.7	5°	6990.1	7209.7	7327.1	7572.2	7735.6	7664.1	7756.0	7730.5	7694.7	7689.6
7082.0	7.5°	7173.9	7454.7	7807.1	7873.4	7944.9	7766.2	7613.0	7403.7	7352.6	7173.9
7214.8	10°	7500.7	7730.5	8159.4	8184.9	7868.3	7408.8	7066.7	6632.7	6627.6	6367.2
7419.0	12.5°	7812.2	8072.6	8419.8	8271.7	7516.0	6888.0	6331.4	5856.6	5657.4	5524.7
7541.6	15°	8006.2	8435.1	8618.9	7980.7	6898.2	6050.6	5330.7	4820.1	4615.8	4518.8
7694.7	17.5°	8184.9	8782.3	8700.6	7470.1	6137.4	5187.7	4329.9	3885.7	3829.5	3758.0
7939.8	20°	8430.0	8910.0	8409.6	6806.3	5274.5	4074.6	3528.2	3313.8	3364.8	3395.5
7965.3	22.5°	8659.8	8976.3	8041.9	6081.2	4166.5	3227.0	2956.4	3002.3	3078.9	3181.0
8026.6	25°	8761.9	9083.6	7546.7	5080.5	3170.8	2716.4	2655.1	2731.7	2859.4	2864.5
8113.4	27.5°	8828.3	9007.0	6949.3	4105.2	2507.0	2374.3	2466.2	2522.4	2537.7	2599.0
8297.2	30°	8945.7	8848.7	6193.6	2935.9	2103.7	2108.8	2226.2	2226.2	2226.2	2272.2
8481.1	32.5°	9149.9	8741.5	5310.2	2144.5	1812.6	1976.0	1945.4	1935.2	1914.7	1858.6
8715.9	35°	9277.6	8450.4	4192.0	1588.0	1628.8	1812.6	1802.4	1644.1	1378.6	1245.9
9313.3	37.5°	9543.1	8302.3	3084.0	1225.4	1521.6	1730.9	1674.8	1291.8	1000.8	873.1
10053.7	40°	10115.0	8205.3	2134.3	1072.3	1450.1	1690.1	1496.1	1102.9	765.9	541.2
11197.4	42.5°	10814.5	8210.4	1450.1	1011.0	1455.2	1776.9	1439.9	944.6	541.2	434.0
12724.1	45°	11754.0	8133.8	995.7	1011.0	1547.1	1919.9	1475.6	857.8	525.9	551.4
14638.9	47.5°	12765.0	8200.2	740.4	919.1	1562.4	1925.0	1348.0	842.5	505.5	638.2
16722.1	50°	13944.5	8266.6	612.7	847.6	1567.5	1863.7	1240.8	822.1	525.9	674.0
19111.7	52.5°	15159.7	8475.9	520.8	801.6	1628.8	1838.2	1240.8	852.7	525.9	587.2
22154.9	55°	16972.3	9012.1	750.6	1000.8	1853.5	2006.7	1526.7	1194.8	735.3	755.7
25070.4	57.5°	18973.9	9563.5	837.4	1051.8	1904.5	1807.5	1644.1	1317.3	776.1	781.2
27337.5	60°	20291.2	9583.9	832.3	1026.3	1782.0	1562.4	1608.4	1388.8	791.4	668.9
28741.6	62.5°	20817.1	8961.0	868.0	1026.3	1659.4	1460.3	1649.2	1496.1	817.0	837.4
29139.9	65°	20219.7	7674.3	837.4	919.1	1460.3	1307.1	1659.4	1516.5	893.5	842.5
28425.1	67°	19285.3	6612.3	852.7	873.1	1358.2	1240.8	1746.2	1593.1	1036.5	1011.0
28052.3	67.5°	19019.8	6331.4	847.6	847.6	1322.5	1220.3	1766.7	1593.1	1056.9	1046.7
24759.0	70°	16763.0	5131.5	868.0	837.4	1169.3	1159.1	1879.0	1679.9	1215.2	1225.4
18187.5	72.5°	12759.9	3890.8	862.9	837.4	1016.1	1108.0	1894.3	1736.0	1322.5	1225.4
10186.5	75°	7250.5	2328.3	760.8	730.2	801.6	965.0	1771.8	1654.3	1286.7	1097.8
4069.5	77.5°	2997.2	1199.9	699.5	658.7	663.8	786.3	1475.6	1542.0	1225.4	934.4
1358.2	80°	1118.2	719.9	561.7	525.9	510.6	577.0	1051.8	1230.5	1046.7	765.9
597.4	82.5°	582.1	449.3	382.9	382.9	347.2	367.6	566.8	817.0	791.4	525.9
240.0	85°	296.1	255.3	219.6	214.5	194.0	173.6	285.9	485.1	454.4	291.0
107.2	87.5°	158.3	143.0	91.9	86.8	71.5	46.0	51.1	97.0	158.3	127.6
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>
6775.7
7485.4
7735.6
7235.2
6357.0
5494.0
4498.4
3793.8
3359.7
3124.9
2915.5
2655.1
2323.2
1827.9
1307.1
868.0
525.9
423.8
561.7
709.7
781.2
602.5
796.5
755.7
689.3
847.6
827.2
995.7
1026.3
1133.5
1087.6
980.4
883.3
699.5
413.6
240.0
91.9
0.0

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