

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: P477682

Luminaire Tested: **IFLD-L-SA8D-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477682
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

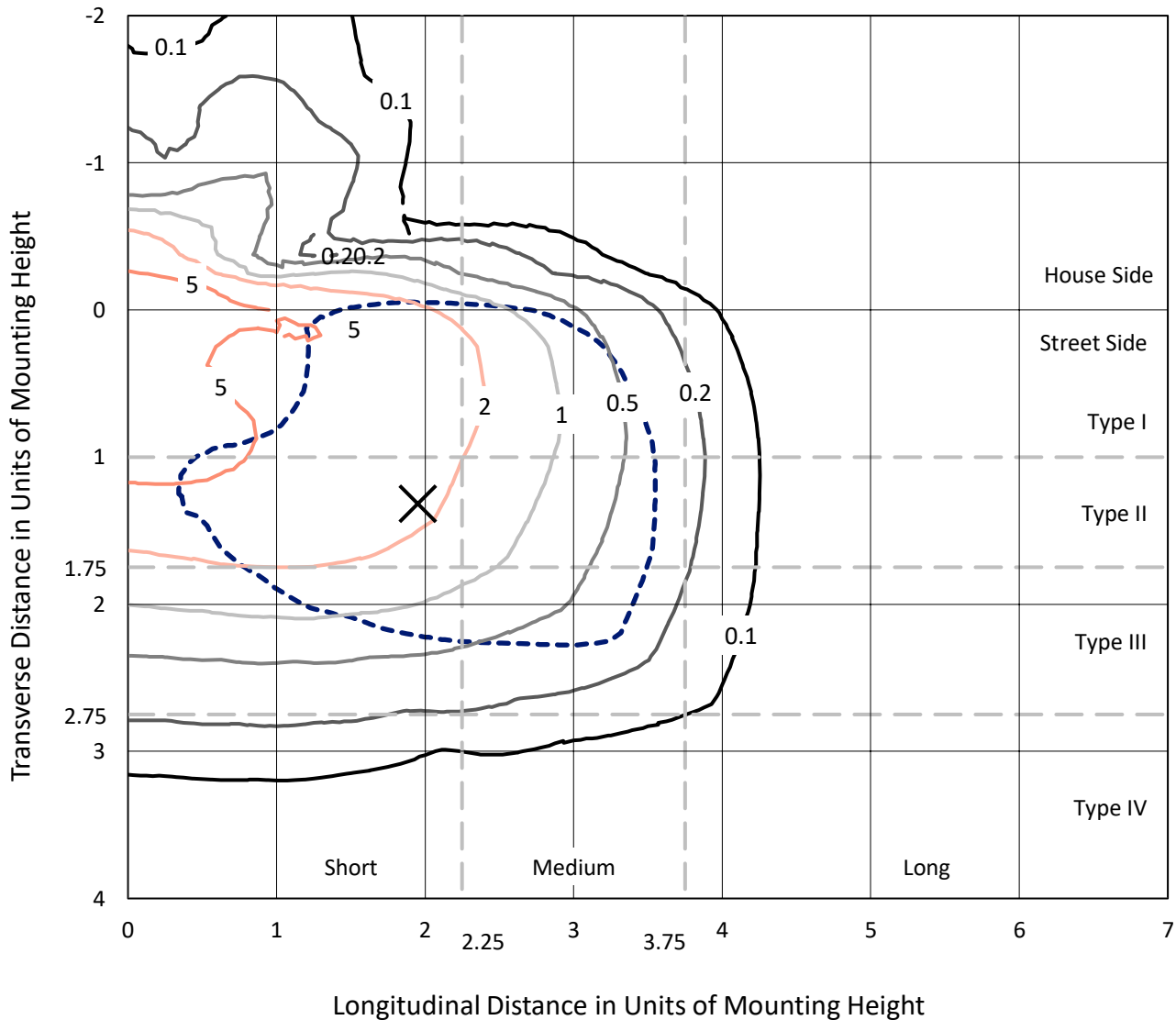
Lumens per Lamp: N/A
Luminaire Lumens: 45796.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

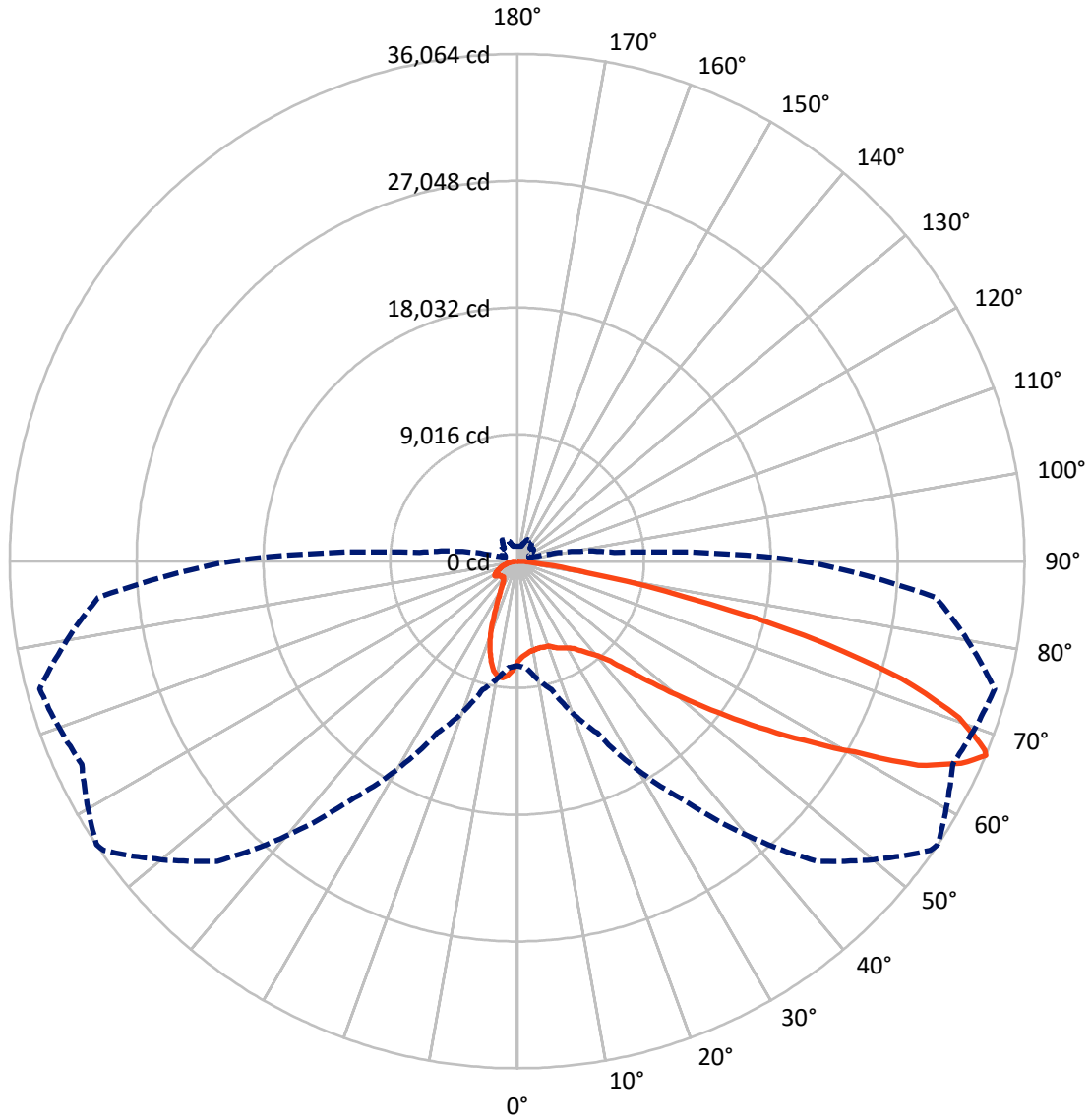
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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	7250.1	0.0	7250.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	38546.4	0.0	38546.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	45796.4	0.0	45796.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.5	1.5
10°-20°	1872.8	4.1
20°-30°	2937.1	6.4
30°-40°	4192.8	9.2
40°-50°	6328.1	13.8
50°-60°	10073.2	22.0
60°-70°	12877.8	28.1
70°-80°	6278.8	13.7
80°-90°	549.3	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°	45796.4	100.0
0°-180°	45796.4	100.0

Coefficient of Utilization

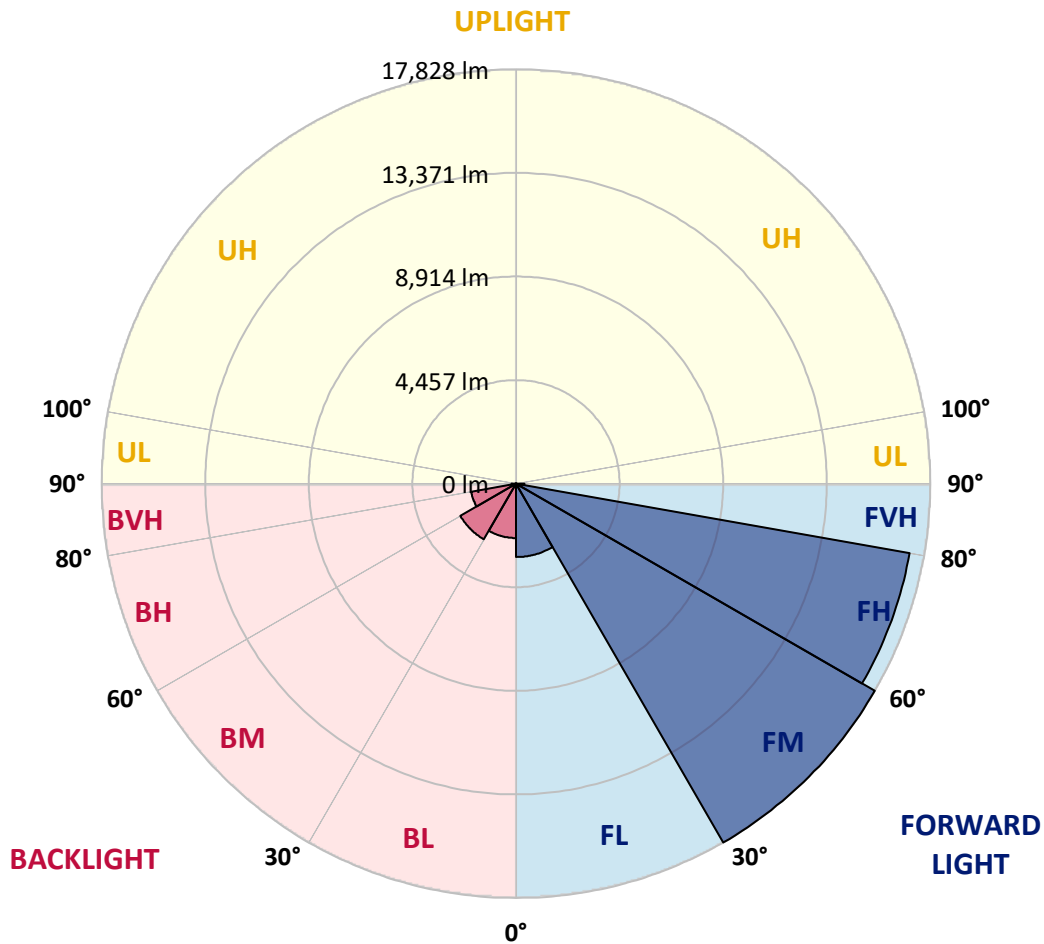


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3155.9	6.9			
FM (30°-60°)	17828.1	38.9			
FH (60°-80°)	17197.6	37.6			G5
FVH (80°-90°)	364.8	0.8			G3/500
BL (0°-30°)	2340.5	5.1	B3/2500		
BM (30°-60°)	2766.0	6.0	B3/5000		
BH (60°-80°)	1959.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	184.5	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°	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8
2.5°	6545.9	6519.0	6551.2	6519.0	6664.0	6749.9	6776.8	6814.3	6948.6	7077.5
5°	6272.0	6153.9	6282.7	6325.7	6336.4	6481.4	6631.8	6658.6	6728.4	6937.9
7.5°	5815.6	5949.8	5901.5	6030.3	6164.6	6309.6	6556.6	6486.8	6744.5	6943.2
10°	5718.9	5729.6	5783.3	5831.7	5949.8	6137.7	6481.4	6438.5	6701.6	7125.8
12.5°	5815.6	5815.6	5799.4	5761.9	5896.1	6078.7	6352.5	6374.0	6787.5	7179.5
15°	6153.9	6218.3	6046.5	6073.3	6019.6	6078.7	6320.3	6368.7	6819.7	7222.5
17.5°	6980.8	6959.3	6755.3	6470.7	6234.4	6196.8	6363.3	6417.0	6787.5	7346.0
20°	7786.3	7743.3	7388.9	7093.6	6626.4	6406.2	6433.1	6438.5	6841.2	7426.5
22.5°	8683.1	8795.8	8409.2	7807.8	7227.8	6680.1	6572.7	6658.6	6964.7	7469.5
25°	10090.0	9848.3	9515.4	8726.0	7791.7	7104.3	6803.6	6846.6	7082.8	7576.9
27.5°	11104.9	11008.2	10487.3	9848.3	8581.0	7437.3	6927.1	7007.7	7297.6	7571.5
30°	12082.2	12082.2	11765.4	10809.5	9413.4	7995.7	7190.2	7152.6	7195.6	7560.8
32.5°	13226.0	13070.2	12613.8	11980.2	10460.5	8505.9	7399.7	7410.4	7410.4	7759.4
35°	13827.4	14079.8	13773.7	12742.7	11260.6	9354.3	7904.4	7823.9	7764.8	7979.6
37.5°	14708.0	14858.4	14536.2	13929.4	12254.0	10041.6	8350.1	8285.7	7942.0	8151.4
40°	15239.7	15212.8	15202.1	14922.8	13569.6	10852.5	9005.2	8838.8	8377.0	8758.2
42.5°	15540.4	15486.7	16147.2	15975.3	14810.1	12044.6	9826.8	9735.6	9225.4	9837.6
45°	15878.7	16276.0	16818.4	17301.7	16254.6	13720.0	11217.6	11088.8	10632.3	11410.9
47.5°	16174.0	16662.7	17355.4	17870.9	17559.4	15540.4	12936.0	12968.2	12667.5	13467.6
50°	16668.0	16716.4	17656.1	18697.8	18939.5	17221.1	15245.0	15191.3	15057.1	16179.4
52.5°	16517.7	16662.7	17849.4	19181.1	19578.5	18998.6	17725.9	17887.0	17709.8	19122.1
55°	14069.0	14504.0	17731.3	19691.3	21092.8	21006.9	20915.6	20808.2	20797.5	22429.9
57.5°	12957.5	13311.9	15620.9	20255.1	22714.5	23348.1	23938.8	24057.0	24051.6	26022.3
60°	12227.2	12592.3	14767.1	19949.0	24094.5	26414.3	27547.4	27563.5	27531.3	29861.8
62.5°	10798.8	11153.2	13290.4	18273.6	24475.8	29244.2	31768.1	31977.5	30500.8	33169.6
65°	9080.4	9370.4	11255.2	15712.2	23460.9	31043.1	34941.7	34694.6	33003.1	35059.8
67°	7426.5	7619.8	9456.3	13489.1	20808.2	30178.6	35859.9	36064.0	34157.7	35140.3
67.5°	6954.0	7131.2	8865.6	12731.9	19798.7	29523.5	35892.1	35859.9	34179.1	35156.5
70°	4827.5	4902.7	6041.1	8758.2	14584.5	24943.0	33271.6	33346.8	32745.4	33250.2
72.5°	3200.4	3313.2	4038.1	5520.2	8597.1	18150.1	27810.5	28616.0	28234.7	27262.8
75°	2062.0	2126.5	2642.0	3286.4	4231.4	10337.0	20545.1	21082.1	20206.8	16861.3
77.5°	1154.5	1224.3	1594.8	1997.6	2062.0	4301.3	11539.8	12205.7	10342.3	7163.4
80°	719.6	810.8	1202.8	1186.7	982.7	1578.7	4757.7	5096.0	4134.8	2464.8
82.5°	542.4	612.2	929.0	832.3	553.1	703.5	1782.8	1911.7	1514.3	950.5
85°	370.5	467.2	671.2	515.5	290.0	338.3	708.8	762.5	692.7	461.8
87.5°	134.2	198.7	349.0	257.8	128.9	102.0	230.9	257.8	247.0	209.4
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°
7125.8	0°	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8	7125.8
7190.2	2.5°	7292.3	7367.4	7405.0	7625.2	7716.5	7700.4	7721.9	7754.1	7786.3	7829.3
7281.5	5°	7351.3	7582.2	7705.7	7963.5	8135.3	8060.2	8156.8	8130.0	8092.4	8087.0
7448.0	7.5°	7544.6	7840.0	8210.5	8280.3	8355.5	8167.6	8006.5	7786.3	7732.6	7544.6
7587.6	10°	7888.3	8130.0	8581.0	8607.9	8274.9	7791.7	7431.9	6975.4	6970.1	6696.2
7802.4	12.5°	8215.9	8489.7	8854.9	8699.2	7904.4	7243.9	6658.6	6159.2	5949.8	5810.2
7931.3	15°	8419.9	8871.0	9064.3	8393.1	7254.7	6363.3	5606.1	5069.1	4854.4	4752.3
8092.4	17.5°	8607.9	9236.2	9150.2	7856.1	6454.6	5455.8	4553.6	4086.5	4027.4	3952.2
8350.1	20°	8865.6	9370.4	8844.2	7158.0	5547.1	4285.1	3710.6	3485.0	3538.7	3571.0
8377.0	22.5°	9107.3	9440.2	8457.5	6395.5	4381.8	3393.7	3109.1	3157.5	3238.0	3345.4
8441.4	25°	9214.7	9553.0	7936.6	5343.0	3334.7	2856.8	2792.3	2872.9	3007.1	3012.5
8532.7	27.5°	9284.5	9472.4	7308.4	4317.4	2636.6	2497.0	2593.6	2652.7	2668.8	2733.3
8726.0	30°	9408.0	9306.0	6513.6	3087.7	2212.4	2217.8	2341.3	2341.3	2341.3	2389.6
8919.3	32.5°	9622.8	9193.2	5584.7	2255.3	1906.3	2078.1	2045.9	2035.2	2013.7	1954.6
9166.3	35°	9757.0	8887.1	4408.7	1670.0	1713.0	1906.3	1895.6	1729.1	1449.9	1310.2
9794.6	37.5°	10036.3	8731.4	3243.4	1288.8	1600.2	1820.4	1761.3	1358.6	1052.5	918.2
10573.2	40°	10637.7	8629.4	2244.6	1127.7	1525.0	1777.4	1573.4	1159.9	805.5	569.2
11776.1	42.5°	11373.4	8634.7	1525.0	1063.2	1530.4	1868.7	1514.3	993.4	569.2	456.4
13381.7	45°	12361.4	8554.2	1047.1	1063.2	1627.1	2019.1	1551.9	902.1	553.1	579.9
15395.4	47.5°	13424.6	8624.0	778.6	966.6	1643.2	2024.4	1417.6	886.0	531.6	671.2
17586.3	50°	14665.1	8693.8	644.4	891.4	1648.5	1960.0	1304.9	864.5	553.1	708.8
20099.4	52.5°	15943.1	8914.0	547.7	843.1	1713.0	1933.1	1304.9	896.8	553.1	617.5
23299.8	55°	17849.4	9477.8	789.4	1052.5	1949.3	2110.4	1605.6	1256.5	773.3	794.7
26366.0	57.5°	19954.4	10057.7	880.7	1106.2	2003.0	1900.9	1729.1	1385.4	816.2	821.6
28750.2	60°	21339.8	10079.2	875.3	1079.3	1874.1	1643.2	1691.5	1460.6	832.3	703.5
30226.9	62.5°	21892.9	9424.1	912.9	1079.3	1745.2	1535.8	1734.5	1573.4	859.2	880.7
30645.8	65°	21264.6	8070.9	880.7	966.6	1535.8	1374.7	1745.2	1594.8	939.7	886.0
29894.0	67°	20281.9	6954.0	896.8	918.2	1428.4	1304.9	1836.5	1675.4	1090.1	1063.2
29502.0	67.5°	20002.7	6658.6	891.4	891.4	1390.8	1283.4	1858.0	1675.4	1111.6	1100.8
26038.4	70°	17629.2	5396.7	912.9	880.7	1229.7	1219.0	1976.1	1766.7	1278.0	1288.8
19127.4	72.5°	13419.3	4091.8	907.5	880.7	1068.6	1165.3	1992.2	1825.8	1390.8	1288.8
10712.9	75°	7625.2	2448.7	800.1	767.9	843.1	1014.9	1863.3	1739.8	1353.2	1154.5
4279.8	77.5°	3152.1	1261.9	735.7	692.7	698.1	827.0	1551.9	1621.7	1288.8	982.7
1428.4	80°	1176.0	757.1	590.7	553.1	537.0	606.8	1106.2	1294.1	1100.8	805.5
628.3	82.5°	612.2	472.5	402.7	402.7	365.2	386.6	596.1	859.2	832.3	553.1
252.4	85°	311.5	268.5	230.9	225.5	204.1	182.6	300.7	510.1	477.9	306.1
112.8	87.5°	166.5	150.4	96.7	91.3	75.2	48.3	53.7	102.0	166.5	134.2
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>
7125.8
7872.2
8135.3
7609.1
6685.5
5778.0
4730.8
3989.8
3533.4
3286.4
3066.2
2792.3
2443.3
1922.4
1374.7
912.9
553.1
445.7
590.7
746.4
821.6
633.6
837.7
794.7
724.9
891.4
869.9
<i>1047.1</i>
1079.3
1192.1
1143.8
1031.0
929.0
735.7
435.0
252.4
96.7
0.0

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