

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: P477325

Luminaire Tested: **IFLD-L-SA7C-730-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477325
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

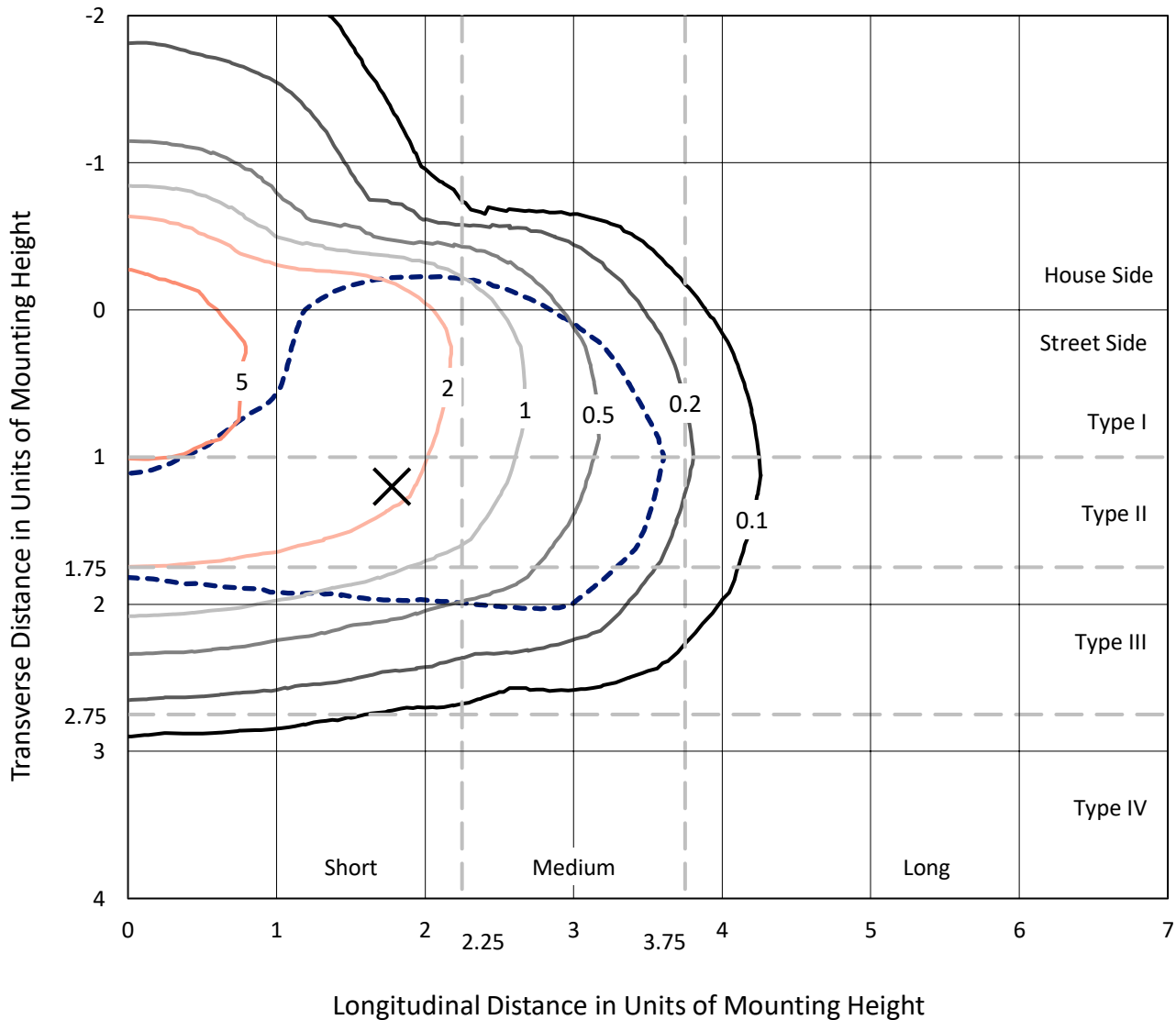
Lumens per Lamp: N/A
Luminaire Lumens: 41115.3 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

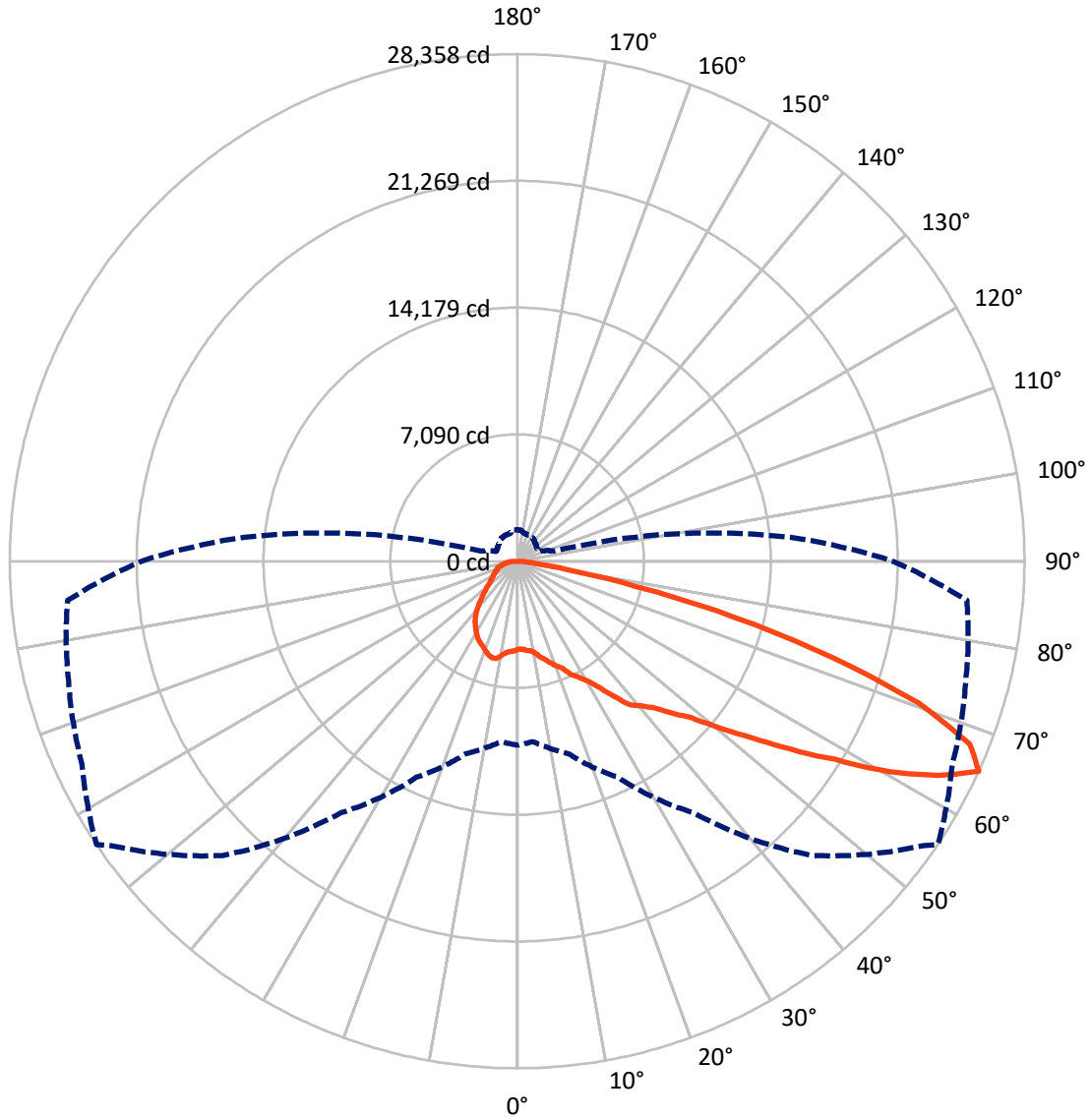
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	9220.8	0.0	9220.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	31894.5	0.0	31894.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	41115.3	0.0	41115.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.0	1.2
10°-20°	1588.0	3.9
20°-30°	2827.5	6.9
30°-40°	4234.1	10.3
40°-50°	6273.4	15.3
50°-60°	9666.4	23.5
60°-70°	10943.5	26.6
70°-80°	4541.7	11.0
80°-90°	551.8	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°	41115.3	100.0
0°-180°	41115.3	100.0

Coefficient of Utilization

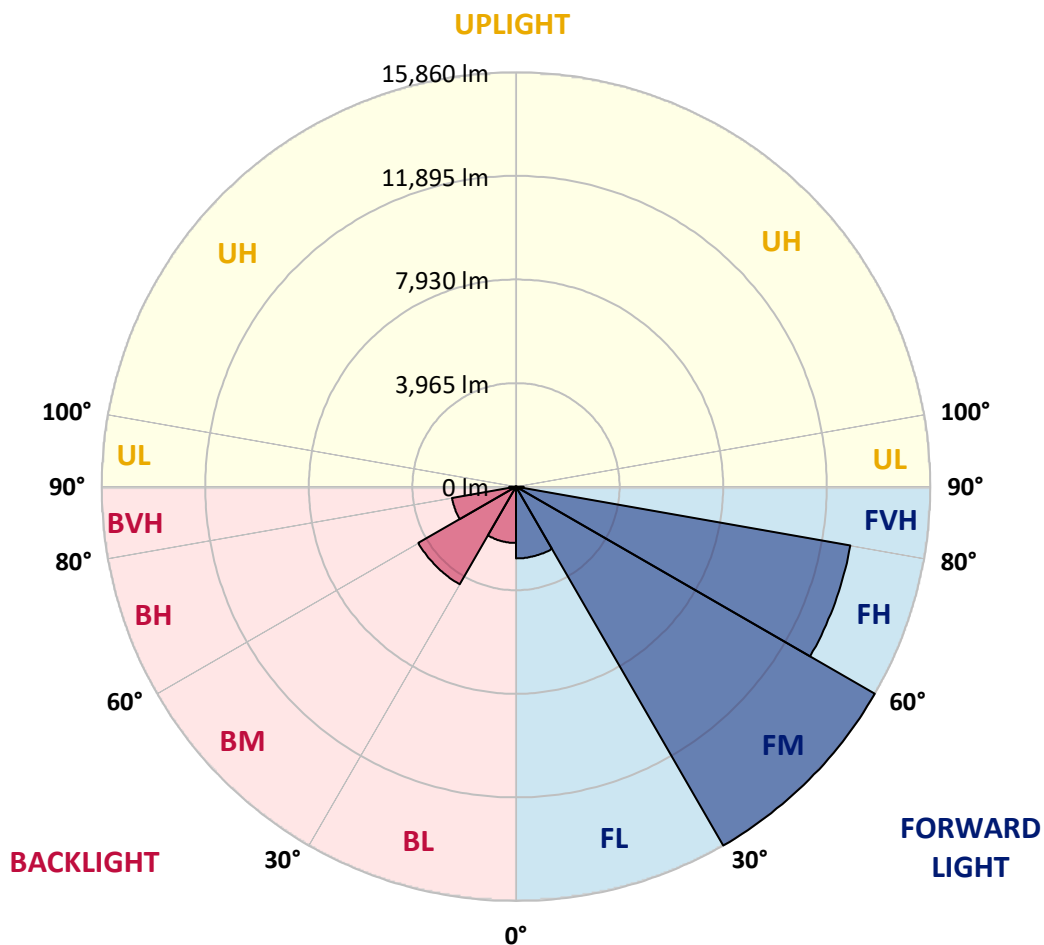


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.7	6.7			
FM (30°-60°)	15860.5	38.6			
FH (60°-80°)	12995.3	31.6			G5
FVH (80°-90°)	291.0	0.7			G3/500
BL (0°-30°)	2156.8	5.2	B3/2500		
BM (30°-60°)	4313.3	10.5	B3/5000		
BH (60°-80°)	2489.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	260.7	0.6			G3/500
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°	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0
2.5°	4805.9	4831.7	4814.5	4866.2	4909.2	4909.2	4943.6	4917.8	4952.2	4999.5
5°	4965.1	4861.9	4917.8	4943.6	4930.7	4952.2	4917.8	5003.9	4947.9	5038.3
7.5°	5003.9	5042.6	5089.9	5046.9	5085.6	5064.1	5068.4	5055.5	5025.4	5098.5
10°	5287.8	5231.9	5339.4	5274.9	5266.3	5257.7	5240.5	5176.0	5249.1	5253.4
12.5°	5614.8	5563.2	5558.9	5507.2	5576.1	5451.3	5477.1	5442.7	5455.6	5472.8
15°	5851.4	5829.9	5928.9	5868.7	5778.3	5722.4	5782.6	5688.0	5735.3	5726.7
17.5°	6320.4	6316.1	6243.0	6144.0	6092.4	6010.6	5997.7	5959.0	5993.4	5976.2
20°	6647.4	6694.7	6707.7	6591.5	6393.6	6303.2	6281.7	6251.6	6290.3	6277.4
22.5°	7146.5	7073.4	7129.3	6927.1	6853.9	6638.8	6561.4	6518.3	6703.4	6656.0
25°	7464.9	7542.3	7486.4	7417.6	7254.1	6987.3	6931.4	7026.0	7099.2	7047.6
27.5°	8183.4	8106.0	8054.3	7847.8	7740.3	7460.6	7396.1	7361.6	7378.9	7409.0
30°	8729.8	8772.9	8656.7	8510.4	8239.4	7955.4	7804.8	7774.7	7714.4	7662.8
32.5°	9508.6	9444.1	9375.2	9280.6	9048.2	8673.9	8527.6	8415.8	8235.1	7994.1
35°	9882.9	10067.9	10016.3	9762.5	9586.1	9444.1	9401.0	9228.9	9078.4	8699.7
37.5°	10506.8	10584.2	10511.1	10429.3	10347.6	10197.0	10145.4	10192.7	9895.8	9272.0
40°	10911.2	11074.7	11225.3	10997.3	10980.1	11010.2	10691.8	10635.9	10024.9	9697.9
42.5°	11737.3	11806.2	11836.3	11827.7	11926.6	11926.6	11320.0	11199.5	10764.9	10498.2
45°	12830.2	12886.1	12993.7	13071.1	12959.2	13015.2	12150.4	12103.0	11715.8	11664.2
47.5°	13776.7	13910.1	14151.0	14379.1	14525.4	14336.1	13389.5	13053.9	12954.9	13264.7
50°	14602.8	14443.6	15007.2	15239.6	15880.7	16194.7	14757.7	14624.3	14465.1	15058.9
52.5°	14684.6	14899.7	15695.7	16160.3	17481.2	18062.0	16435.7	16379.8	16186.1	16870.2
55°	15269.7	15243.9	16044.2	17051.0	18621.4	19598.1	18621.4	18587.0	18165.3	18815.0
57.5°	15170.7	15433.2	16065.7	17472.6	19649.7	21245.9	21155.6	20918.9	20329.5	20858.7
60°	14835.1	14904.0	15674.1	17459.7	20247.7	22936.8	23892.0	23939.3	22734.6	23156.3
62.5°	12933.4	13092.6	14069.3	16087.2	19821.8	24102.8	26563.9	26396.1	25432.3	24950.4
65°	10287.4	10128.2	11143.6	13325.0	17171.4	23276.7	27734.2	28358.0	26843.5	25961.5
67.5°	6307.5	6268.8	7245.5	9168.7	12847.4	19808.9	26800.5	27286.7	26452.0	25746.4
70°	3248.4	3149.5	3760.4	5115.7	8075.9	14534.0	23324.1	23801.6	24597.6	23091.7
72.5°	1514.5	1493.0	1820.0	2517.0	4113.2	8544.8	18062.0	18406.3	20084.2	19469.0
75°	890.6	903.5	1088.5	1316.6	2005.0	4027.2	11986.9	12653.8	14473.7	14030.6
77.5°	666.9	666.9	774.5	916.4	1170.3	1557.5	5916.0	6798.0	8463.1	7611.2
80°	490.5	499.1	593.8	688.4	813.2	804.6	2349.2	2753.6	3880.9	3317.3
82.5°	382.9	395.8	460.4	512.0	572.2	486.2	963.8	1036.9	1596.2	1269.2
85°	266.8	275.4	361.4	348.5	348.5	271.1	400.1	421.6	632.5	602.4
87.5°	64.5	73.1	176.4	193.6	146.3	81.7	124.8	142.0	228.0	262.5
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°
4935.0	0°	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0
5021.1	2.5°	4956.5	4973.7	5046.9	5008.2	5029.7	4939.3	5012.5	4952.2	5003.9	4978.0
5059.8	5°	5094.2	5055.5	5098.5	5068.4	5068.4	5102.8	5154.4	5115.7	5193.2	5158.7
5089.9	7.5°	5150.1	5154.4	5180.3	5184.6	5163.0	5270.6	5274.9	5262.0	5335.1	5317.9
5296.4	10°	5287.8	5292.1	5339.4	5365.3	5343.8	5382.5	5339.4	5305.0	5300.7	5283.5
5459.9	12.5°	5507.2	5550.3	5541.7	5563.2	5567.5	5404.0	5305.0	5137.2	5115.7	5137.2
5700.9	15°	5709.5	5692.3	5700.9	5743.9	5563.2	5300.7	5124.3	4982.3	4990.9	4995.2
6014.9	17.5°	5950.4	5963.3	5976.2	5778.3	5447.0	5137.2	4982.3	4982.3	4939.3	4956.5
6234.4	20°	6225.8	6174.1	6062.3	5782.6	5244.8	4947.9	4900.6	4900.6	4849.0	4814.5
6471.0	22.5°	6440.9	6337.6	6169.8	5649.2	5064.1	4874.8	4758.6	4676.9	4616.6	4547.8
6733.5	25°	6578.6	6522.6	6195.7	5511.5	4930.7	4681.2	4509.1	4384.3	4306.8	4216.5
6940.0	27.5°	6789.4	6681.8	6268.8	5352.4	4784.4	4487.5	4220.8	4027.2	3880.9	3786.2
7254.1	30°	7073.4	6918.5	6217.2	5124.3	4560.7	4151.9	3837.9	3588.3	3420.5	3343.1
7551.0	32.5°	7305.7	7103.5	6174.1	4917.8	4311.1	3812.0	3394.7	3140.9	3046.2	2947.2
8050.0	35°	7748.9	7348.7	6144.0	4801.6	4087.4	3472.1	3033.3	2813.9	2693.4	2547.1
8346.9	37.5°	8088.8	7774.7	6070.9	4560.7	3799.1	3140.9	2757.9	2560.0	2379.3	2224.4
9035.3	40°	8622.3	8368.4	6075.2	4220.8	3459.2	2856.9	2542.8	2336.3	2108.2	1974.9
10055.0	42.5°	9624.8	8953.6	6101.0	3949.7	3076.3	2624.5	2349.2	2103.9	1875.9	1764.0
11216.7	45°	10855.3	9758.2	5941.8	3704.5	2684.8	2405.1	2116.8	1871.6	1725.3	1643.6
12795.7	47.5°	12270.8	10545.5	5726.7	3244.1	2357.8	2172.8	1901.7	1759.7	1652.2	1604.8
14830.8	50°	13854.2	11672.8	5666.4	2822.5	2103.9	1974.9	1798.5	1690.9	1617.8	1561.8
17124.1	52.5°	15893.6	12985.1	5546.0	2387.9	1884.5	1815.7	1759.7	1686.6	1622.1	1574.7
19262.5	55°	17842.6	14439.3	5416.9	2030.8	1729.6	1738.2	1768.3	1703.8	1647.9	1574.7
21659.0	57.5°	20036.9	15923.7	4939.3	1768.3	1613.5	1699.5	1759.7	1686.6	1630.7	1574.7
24111.4	60°	21392.2	16758.4	4005.7	1540.3	1510.2	1626.4	1708.1	1630.7	1570.4	1591.9
25238.7	62.5°	21942.9	16319.5	3020.4	1398.3	1437.0	1527.4	1626.4	1596.2	1553.2	1635.0
25225.8	65°	21005.0	15308.4	2159.9	1277.9	1338.1	1428.4	1553.2	1587.6	1600.5	1759.7
23169.2	67.5°	18690.2	13329.3	1587.6	1178.9	1234.8	1368.2	1604.8	1660.8	1652.2	1850.1
19443.2	70°	14955.6	10425.0	1239.1	1097.1	1196.1	1415.5	1678.0	1678.0	1617.8	1850.1
14830.8	72.5°	10881.1	7348.7	1067.0	1002.5	1097.1	1299.4	1669.4	1665.1	1587.6	1690.9
9444.1	75°	6587.2	4276.7	942.3	907.8	942.3	1114.4	1596.2	1570.4	1462.9	1454.3
4543.5	77.5°	3282.8	2151.3	770.2	804.6	821.8	933.7	1402.6	1441.3	1295.1	1260.6
1794.2	80°	1385.4	938.0	641.1	692.7	692.7	787.4	1166.0	1191.8	1075.6	1011.1
709.9	82.5°	632.5	537.8	546.4	602.4	563.6	611.0	925.0	955.2	873.4	765.9
301.2	85°	266.8	305.5	417.3	473.3	417.3	395.8	636.8	671.2	567.9	473.3
129.1	87.5°	120.5	167.8	262.5	344.2	210.8	185.0	339.9	352.8	284.0	210.8
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>
4935.0
4930.7
5111.4
5292.1
5283.5
5145.8
5055.5
4960.8
4762.9
4509.1
4233.7
3829.3
3386.1
2942.9
2534.2
2228.7
1987.8
1772.6
1660.8
1596.2
1570.4
1570.4
1570.4
1570.4
1574.7
1613.5
1759.7
1863.0
1811.4
1630.7
1437.0
1239.1
989.6
748.6
477.6
197.9
0.0

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