

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: P477394

Luminaire Tested: **IFLD-S-SA6D-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477394
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

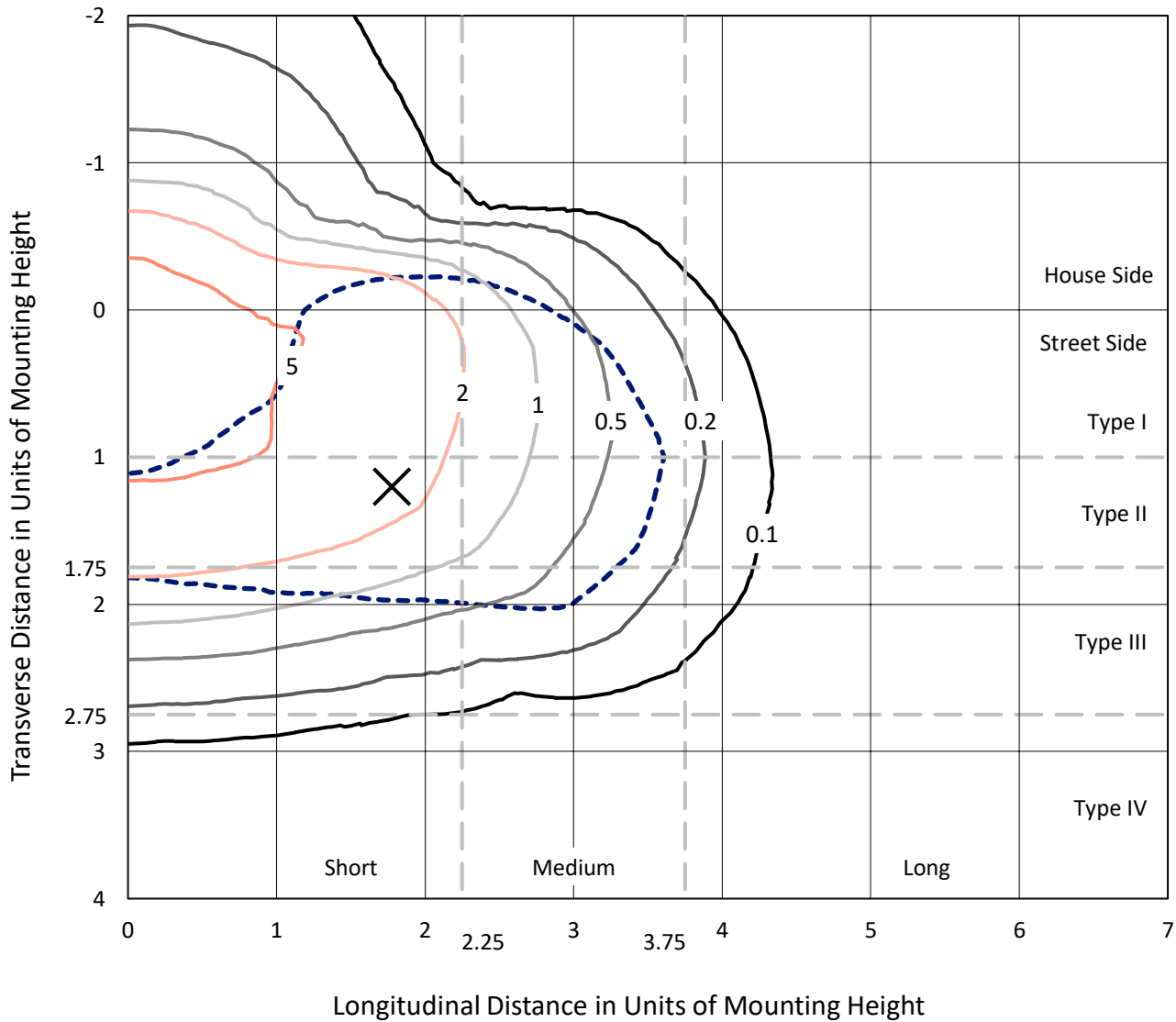
Lumens per Lamp: N/A
Luminaire Lumens: 46568.6 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): 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

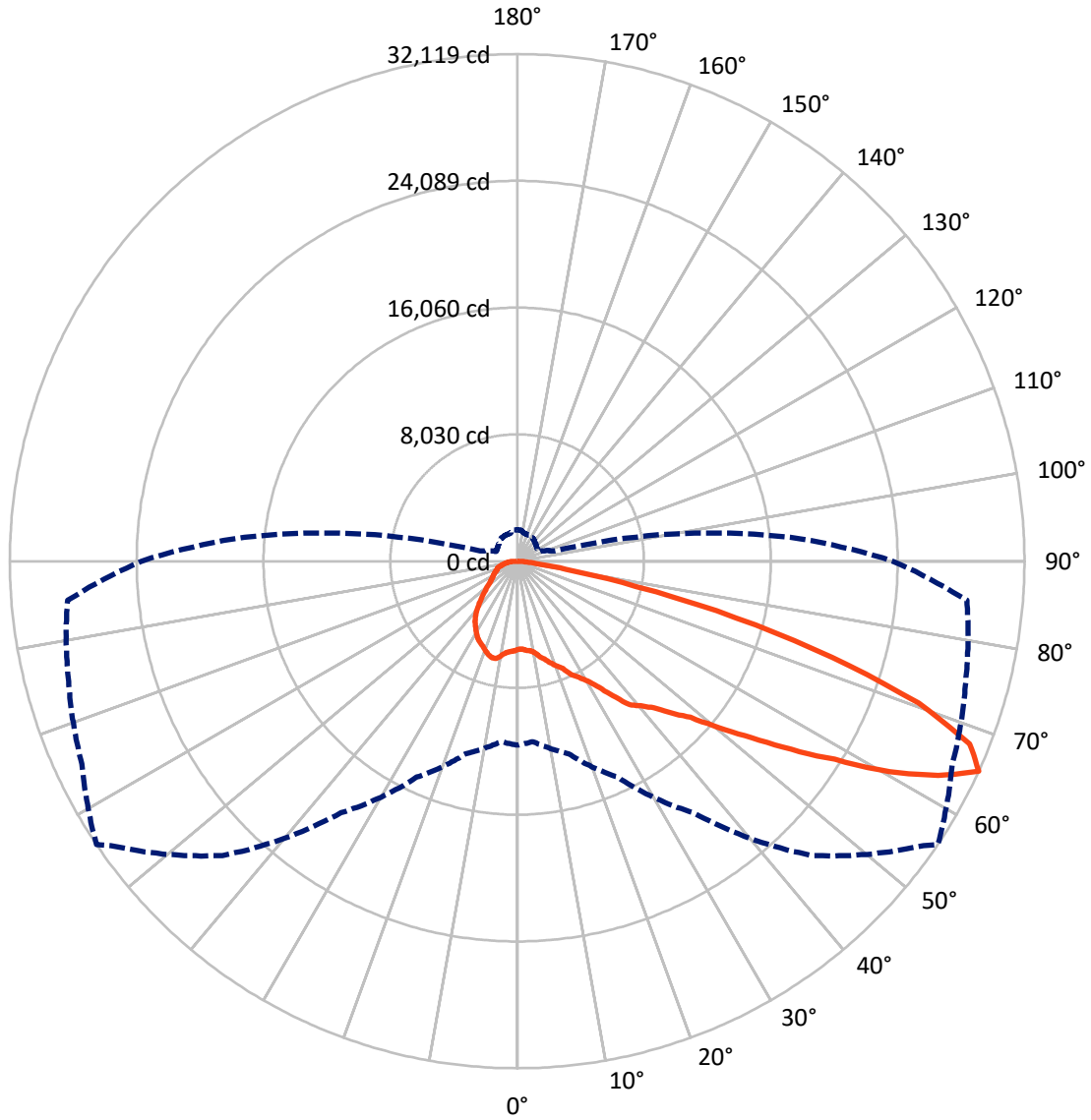
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	10443.8	0.0	10443.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	36124.8	0.0	36124.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	46568.6	0.0	46568.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.9	1.2
10°-20°	1798.6	3.9
20°-30°	3202.5	6.9
30°-40°	4795.7	10.3
40°-50°	7105.4	15.3
50°-60°	10948.5	23.5
60°-70°	12395.0	26.6
70°-80°	5144.1	11.0
80°-90°	624.9	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°	46568.6	100.0
0°-180°	46568.6	100.0

Coefficient of Utilization

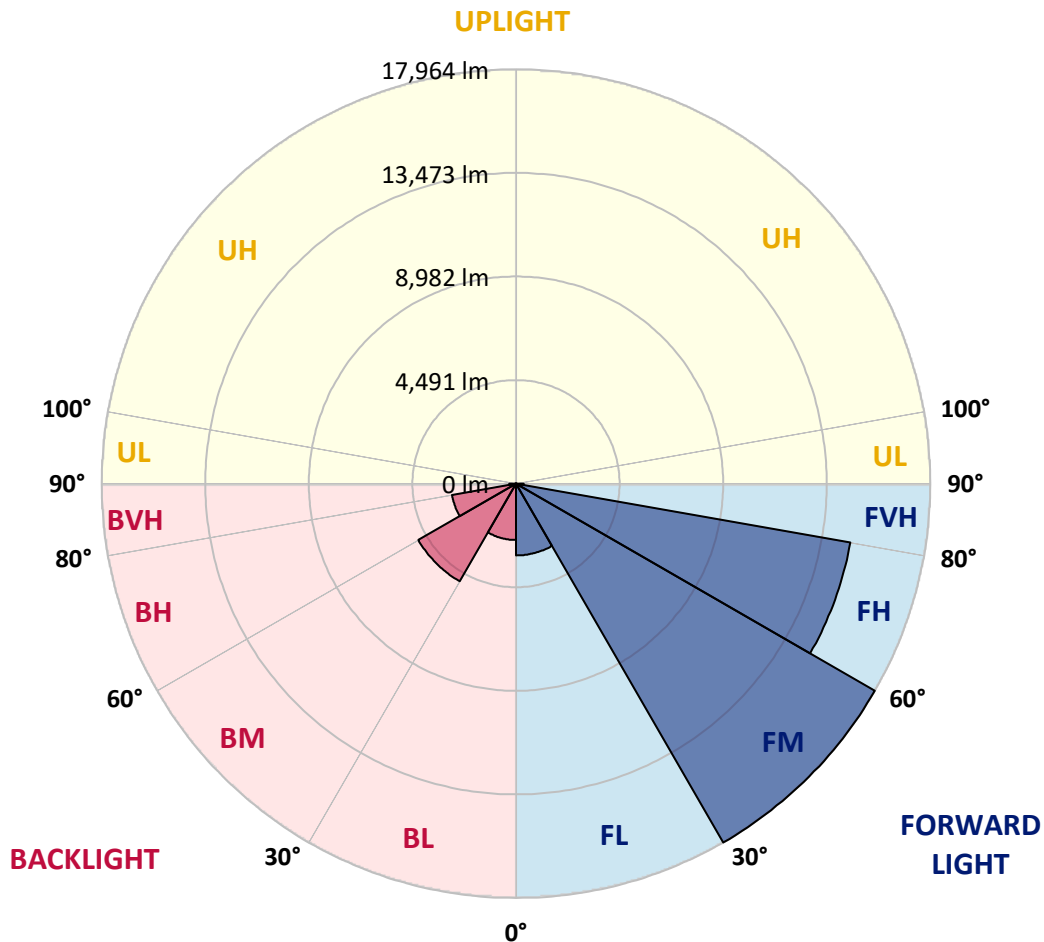


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3112.1	6.7			
FM (30°-60°)	17964.1	38.6			
FH (60°-80°)	14718.9	31.6			G5
FVH (80°-90°)	329.6	0.7			G3/500
BL (0°-30°)	2442.9	5.2	B3/2500		
BM (30°-60°)	4885.4	10.5	B3/5000		
BH (60°-80°)	2820.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	295.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6
2.5°	5443.4	5472.6	5453.1	5511.6	5560.3	5560.3	5599.3	5570.1	5609.1	5662.7
5°	5623.7	5506.7	5570.1	5599.3	5584.7	5609.1	5570.1	5667.5	5604.2	5706.5
7.5°	5667.5	5711.4	5765.0	5716.3	5760.1	5735.8	5740.6	5726.0	5691.9	5774.7
10°	5989.2	5925.8	6047.6	5974.5	5964.8	5955.1	5935.6	5862.5	5945.3	5950.2
12.5°	6359.5	6301.1	6296.2	6237.7	6315.7	6174.3	6203.6	6164.6	6179.2	6198.7
15°	6627.6	6603.2	6715.3	6647.0	6544.7	6481.4	6549.6	6442.4	6496.0	6486.2
17.5°	7158.7	7153.9	7071.0	6958.9	6900.5	6807.9	6793.2	6749.4	6788.4	6768.9
20°	7529.1	7582.7	7597.3	7465.7	7241.6	7139.2	7114.9	7080.8	7124.6	7110.0
22.5°	8094.4	8011.5	8074.9	7845.9	7763.0	7519.4	7431.6	7382.9	7592.5	7538.8
25°	8455.0	8542.7	8479.4	8401.4	8216.2	7914.1	7850.7	7957.9	8040.8	7982.3
27.5°	9268.8	9181.1	9122.6	8888.7	8766.9	8450.1	8377.0	8338.1	8357.5	8391.7
30°	9887.7	9936.5	9804.9	9639.2	9332.2	9010.6	8840.0	8805.9	8737.7	8679.2
32.5°	10769.8	10696.7	10618.7	10511.5	10248.3	9824.4	9658.7	9532.0	9327.3	9054.4
35°	11193.7	11403.3	11344.8	11057.3	10857.5	10696.7	10647.9	10453.0	10282.5	9853.6
37.5°	11900.4	11988.1	11905.2	11812.6	11720.1	11549.5	11491.0	11544.6	11208.4	10501.8
40°	12358.4	12543.6	12714.2	12455.9	12436.4	12470.5	12109.9	12046.6	11354.6	10984.2
42.5°	13294.1	13372.1	13406.2	13396.4	13508.5	13508.5	12821.4	12684.9	12192.8	11890.6
45°	14531.9	14595.2	14717.1	14804.8	14678.1	14741.4	13761.9	13708.3	13269.7	13211.3
47.5°	15604.0	15755.1	16028.0	16286.2	16451.9	16237.5	15165.4	14785.3	14673.2	15024.1
50°	16539.7	16359.3	16997.7	17260.9	17987.0	18342.7	16715.1	16564.0	16383.7	17056.2
52.5°	16632.2	16875.9	17777.4	18303.8	19799.8	20457.7	18615.6	18552.3	18333.0	19107.8
55°	17295.0	17265.8	18172.2	19312.5	21091.2	22197.4	21091.2	21052.2	20574.7	21310.5
57.5°	17182.9	17480.2	18196.5	19790.1	22255.9	24063.9	23961.5	23693.5	23025.9	23625.3
60°	16802.8	16880.8	17753.1	19775.5	22933.3	25979.0	27060.9	27114.5	25750.0	26227.6
62.5°	14648.8	14829.2	15935.4	18220.9	22450.8	27299.7	30087.2	29897.1	28805.5	28259.7
65°	11651.8	11471.5	12621.6	15092.3	19449.0	26364.0	31412.7	32119.3	30403.9	29404.9
67.5°	7144.1	7100.3	8206.5	10384.8	14551.4	22436.2	30355.2	30905.9	29960.5	29161.2
70°	3679.3	3567.2	4259.2	5794.2	9147.0	16461.7	26417.6	26958.6	27860.1	26154.5
72.5°	1715.4	1691.0	2061.4	2850.8	4658.8	9678.2	20457.7	20847.6	22748.1	22051.2
75°	1008.8	1023.4	1232.9	1491.2	2270.9	4561.3	13576.7	14332.1	16393.5	15891.5
77.5°	755.3	755.3	877.2	1038.0	1325.5	1764.1	6700.7	7699.7	9585.6	8620.7
80°	555.5	565.3	672.5	779.7	921.0	911.3	2660.8	3118.8	4395.6	3757.2
82.5°	433.7	448.3	521.4	579.9	648.1	550.7	1091.6	1174.4	1808.0	1437.6
85°	302.1	311.9	409.3	394.7	394.7	307.0	453.2	477.6	716.4	682.2
87.5°	73.1	82.8	199.8	219.3	165.7	92.6	141.3	160.8	258.3	297.3
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°
5589.6	0°	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6	5589.6
5687.0	2.5°	5613.9	5633.4	5716.3	5672.4	5696.8	5594.4	5677.3	5609.1	5667.5	5638.3
5730.9	5°	5769.9	5726.0	5774.7	5740.6	5740.6	5779.6	5838.1	5794.2	5882.0	5843.0
5765.0	7.5°	5833.2	5838.1	5867.3	5872.2	5847.8	5969.7	5974.5	5959.9	6042.8	6023.3
5998.9	10°	5989.2	5994.0	6047.6	6076.9	6052.5	6096.4	6047.6	6008.7	6003.8	5984.3
6184.1	12.5°	6237.7	6286.4	6276.7	6301.1	6305.9	6120.7	6008.7	5818.6	5794.2	5818.6
6457.0	15°	6466.7	6447.2	6457.0	6505.7	6301.1	6003.8	5804.0	5643.2	5652.9	5657.8
6812.7	17.5°	6739.6	6754.3	6768.9	6544.7	6169.5	5818.6	5643.2	5643.2	5594.4	5613.9
7061.3	20°	7051.5	6993.0	6866.3	6549.6	5940.4	5604.2	5550.6	5550.6	5492.1	5453.1
7329.3	22.5°	7295.2	7178.2	6988.2	6398.5	5735.8	5521.3	5389.8	5297.2	5228.9	5151.0
7626.6	25°	7451.1	7387.8	7017.4	6242.6	5584.7	5302.0	5107.1	4965.8	4878.1	4775.7
7860.5	27.5°	7689.9	7568.1	7100.3	6062.3	5419.0	5082.8	4780.6	4561.3	4395.6	4288.4
8216.2	30°	8011.5	7836.1	7041.8	5804.0	5165.6	4702.6	4346.9	4064.3	3874.2	3786.5
8552.5	32.5°	8274.7	8045.7	6993.0	5570.1	4882.9	4317.7	3845.0	3557.4	3450.2	3338.1
9117.8	35°	8776.6	8323.4	6958.9	5438.5	4629.5	3932.7	3435.6	3187.1	3050.6	2884.9
9454.0	37.5°	9161.6	8805.9	6876.1	5165.6	4303.0	3557.4	3123.7	2899.6	2694.9	2519.4
10233.7	40°	9765.9	9478.4	6881.0	4780.6	3918.1	3235.8	2880.1	2646.1	2387.9	2236.8
11388.7	42.5°	10901.4	10141.1	6910.2	4473.6	3484.3	2972.7	2660.8	2383.0	2124.7	1998.0
12704.4	45°	12295.1	11052.4	6729.9	4195.8	3040.9	2724.1	2397.6	2119.8	1954.2	1861.6
14492.9	47.5°	13898.4	11944.2	6486.2	3674.4	2670.5	2461.0	2154.0	1993.1	1871.3	1817.7
16797.9	50°	15691.7	13221.0	6418.0	3196.8	2383.0	2236.8	2037.0	1915.2	1832.3	1769.0
19395.3	52.5°	18001.6	14707.3	6281.6	2704.6	2134.5	2056.5	1993.1	1910.3	1837.2	1783.6
21817.3	55°	20209.2	16354.5	6135.4	2300.2	1959.0	1968.8	2002.9	1929.8	1866.4	1783.6
24531.7	57.5°	22694.5	18035.7	5594.4	2002.9	1827.5	1924.9	1993.1	1910.3	1846.9	1783.6
27309.4	60°	24229.6	18981.1	4537.0	1744.6	1710.5	1842.1	1934.7	1846.9	1778.7	1803.1
28586.2	62.5°	24853.3	18484.1	3421.0	1583.8	1627.6	1730.0	1842.1	1808.0	1759.2	1851.8
28571.6	65°	23791.0	17338.9	2446.3	1447.3	1515.6	1617.9	1759.2	1798.2	1812.8	1993.1
26242.2	67.5°	21169.2	15097.2	1798.2	1335.3	1398.6	1549.7	1817.7	1881.1	1871.3	2095.5
22022.0	70°	16939.3	11807.8	1403.5	1242.7	1354.8	1603.3	1900.5	1900.5	1832.3	2095.5
16797.9	72.5°	12324.3	8323.4	1208.6	1135.5	1242.7	1471.7	1890.8	1885.9	1798.2	1915.2
10696.7	75°	7460.9	4844.0	1067.2	1028.2	1067.2	1262.2	1808.0	1778.7	1656.9	1647.1
5146.1	77.5°	3718.3	2436.6	872.3	911.3	930.8	1057.5	1588.7	1632.5	1466.8	1427.8
2032.1	80°	1569.2	1062.4	726.1	784.6	784.6	891.8	1320.6	1349.9	1218.3	1145.2
804.1	82.5°	716.4	609.2	618.9	682.2	638.4	692.0	1047.7	1081.9	989.3	867.4
341.1	85°	302.1	346.0	472.7	536.1	472.7	448.3	721.2	760.2	643.3	536.1
146.2	87.5°	136.4	190.1	297.3	389.9	238.8	209.5	385.0	399.6	321.6	238.8
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>
5589.6
5584.7
5789.4
5994.0
5984.3
5828.4
5726.0
5618.8
5394.6
5107.1
4795.2
4337.2
3835.2
3333.3
2870.3
2524.3
2251.4
2007.8
1881.1
1808.0
1778.7
1778.7
1778.7
1778.7
1783.6
1827.5
1993.1
2110.1
2051.6
1846.9
1627.6
1403.5
1120.8
847.9
540.9
224.2
0.0

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