

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: P477404

Luminaire Tested: **IFLD-L-SA7D-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477404
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

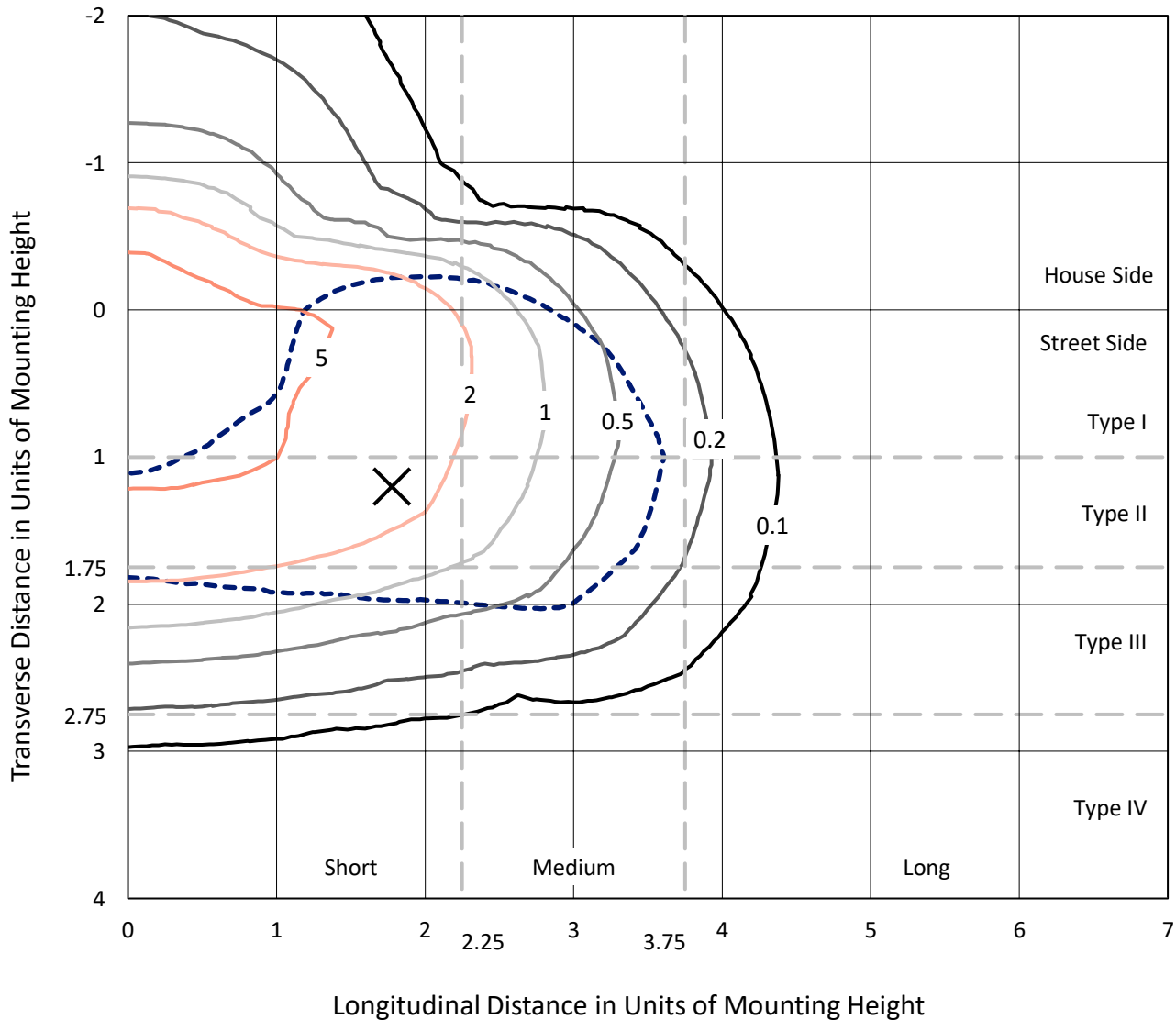
Lumens per Lamp: N/A
Luminaire Lumens: 49682.5 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

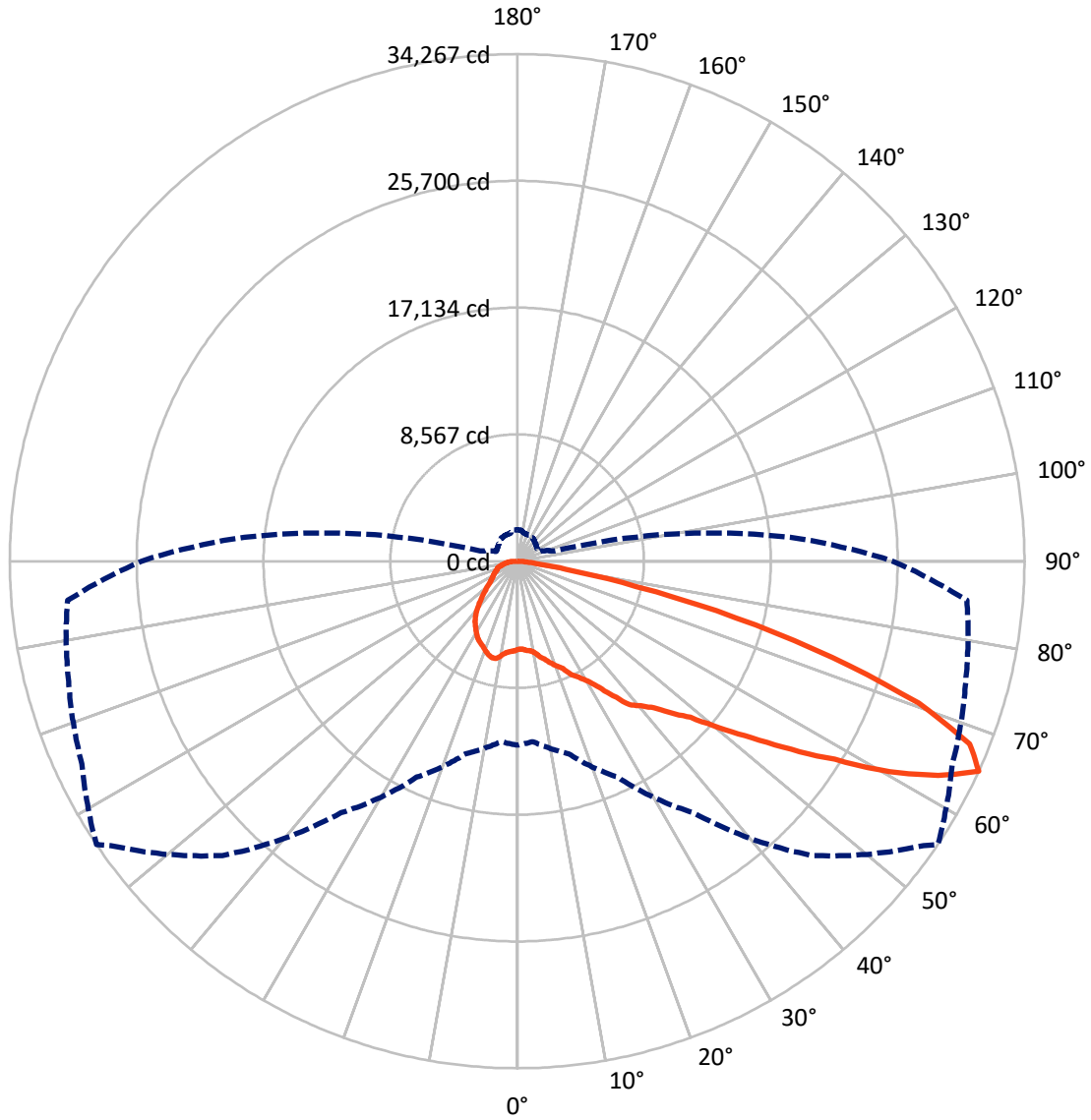
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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	11142.2	0.0	11142.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	38540.3	0.0	38540.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	49682.5	0.0	49682.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.9	1.2
10°-20°	1918.9	3.9
20°-30°	3416.7	6.9
30°-40°	5116.4	10.3
40°-50°	7580.5	15.3
50°-60°	11680.5	23.5
60°-70°	13223.8	26.6
70°-80°	5488.0	11.0
80°-90°	666.7	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°	49682.5	100.0
0°-180°	49682.5	100.0

Coefficient of Utilization

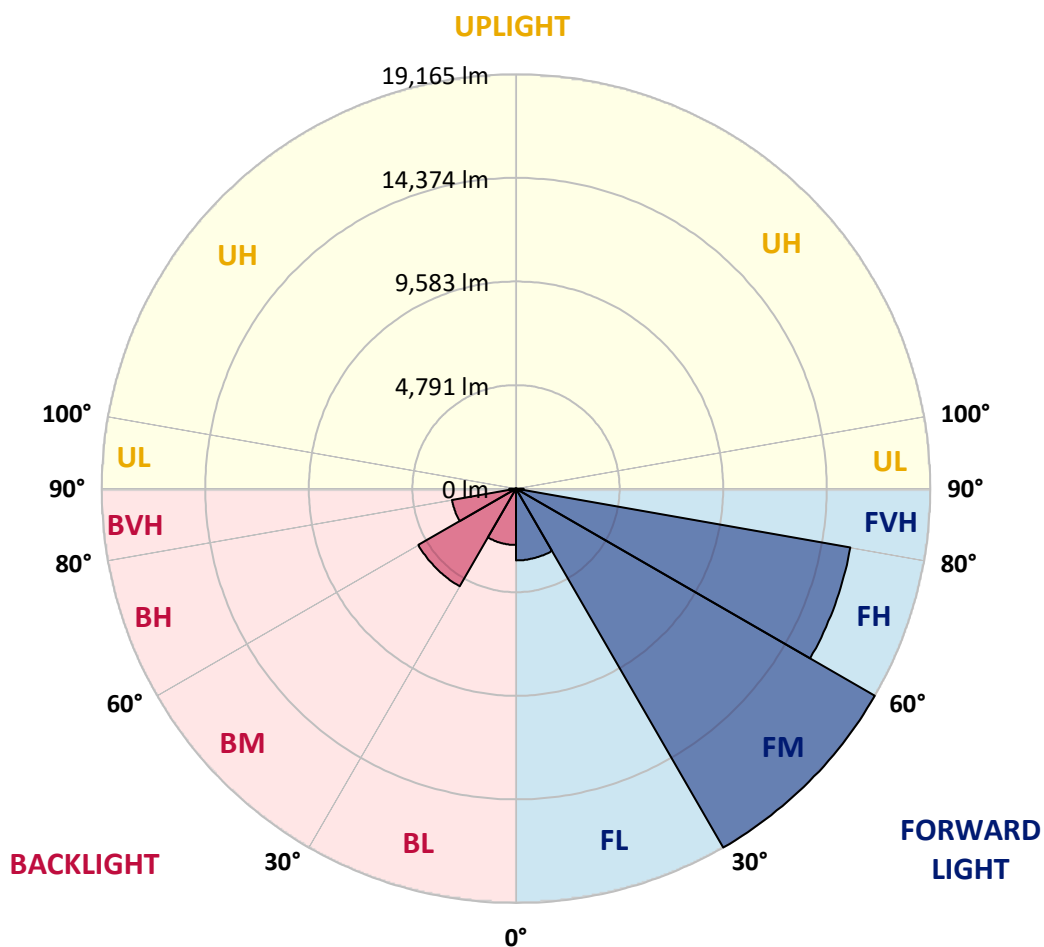


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3320.2	6.7			
FM (30°-60°)	19165.3	38.6			
FH (60°-80°)	15703.1	31.6			G5
FVH (80°-90°)	351.7	0.7			G3/500
BL (0°-30°)	2606.3	5.2	B4/5000		
BM (30°-60°)	5212.1	10.5	B4/8500		
BH (60°-80°)	3008.8	6.1	B4/5000		G4/5000
BVH (80°-90°)	315.0	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°	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
2.5°	5807.3	5838.5	5817.7	5880.1	5932.1	5932.1	5973.7	5942.5	5984.1	6041.3
5°	5999.7	5874.9	5942.5	5973.7	5958.1	5984.1	5942.5	6046.5	5978.9	6088.1
7.5°	6046.5	6093.3	6150.5	6098.5	6145.3	6119.3	6124.5	6108.9	6072.5	6160.9
10°	6389.6	6322.0	6452.0	6374.0	6363.6	6353.2	6332.4	6254.5	6342.8	6348.0
12.5°	6784.8	6722.4	6717.2	6654.8	6738.0	6587.2	6618.4	6576.8	6592.4	6613.2
15°	7070.7	7044.7	7164.3	7091.5	6982.3	6914.7	6987.5	6873.1	6930.3	6919.9
17.5°	7637.4	7632.2	7543.8	7424.2	7361.9	7263.1	7247.5	7200.7	7242.3	7221.5
20°	8032.5	8089.7	8105.3	7965.0	7725.8	7616.6	7590.6	7554.2	7601.0	7585.4
22.5°	8635.6	8547.2	8614.8	8370.5	8282.1	8022.1	7928.6	7876.6	8100.1	8042.9
25°	9020.4	9113.9	9046.4	8963.2	8765.6	8443.3	8375.7	8490.1	8578.4	8516.1
27.5°	9888.6	9795.0	9732.6	9483.1	9353.1	9015.2	8937.2	8895.6	8916.4	8952.8
30°	10548.9	10600.9	10460.5	10283.7	9956.2	9613.1	9431.1	9394.7	9321.9	9259.5
32.5°	11489.9	11411.9	11328.7	11214.4	10933.6	10481.3	10304.5	10169.4	9951.0	9659.8
35°	11942.2	12165.8	12103.4	11796.7	11583.5	11411.9	11359.9	11152.0	10970.0	10512.5
37.5°	12696.1	12789.7	12701.3	12602.5	12503.7	12321.8	12259.4	12316.6	11957.8	11204.0
40°	13184.8	13382.4	13564.3	13288.8	13268.0	13304.4	12919.6	12852.1	12113.8	11718.7
42.5°	14183.0	14266.2	14302.6	14292.2	14411.8	14411.8	13678.7	13533.1	13008.0	12685.7
45°	15503.6	15571.2	15701.1	15794.7	15659.6	15727.1	14682.1	14624.9	14157.0	14094.6
47.5°	16647.4	16808.5	17099.7	17375.2	17552.0	17323.2	16179.5	15773.9	15654.4	16028.7
50°	17645.6	17453.2	18134.3	18415.1	19189.7	19569.2	17832.8	17671.6	17479.2	18196.7
52.5°	17744.4	18004.3	18966.1	19527.6	21123.8	21825.6	19860.4	19792.8	19558.8	20385.5
55°	18451.4	18420.2	19387.3	20603.9	22501.5	23681.7	22501.5	22459.9	21950.4	22735.5
57.5°	18331.9	18649.0	19413.3	21113.4	23744.1	25672.9	25563.7	25277.8	24565.5	25205.0
60°	17926.3	18009.5	18940.2	21097.8	24466.7	27716.2	28870.3	28927.5	27471.8	27981.3
62.5°	15628.4	15820.7	17000.9	19439.3	23952.0	29125.1	32099.0	31896.2	30731.6	30149.3
65°	12430.9	12238.6	13465.6	16101.5	20749.4	28126.9	33513.1	34267.0	32436.9	31371.1
67.5°	7621.8	7575.0	8755.2	11079.2	15524.4	23936.4	32384.9	32972.4	31963.8	31111.1
70°	3925.3	3805.7	4544.0	6181.7	9758.6	17562.4	28184.1	28761.2	29723.0	27903.3
72.5°	1830.1	1804.1	2199.2	3041.4	4970.3	10325.3	21825.6	22241.6	24269.2	23525.7
75°	1076.2	1091.8	1315.4	1590.9	2422.8	4866.3	14484.6	15290.4	17489.6	16954.1
77.5°	805.9	805.9	935.8	1107.4	1414.1	1882.1	7148.7	8214.5	10226.5	9197.1
80°	592.7	603.1	717.5	831.8	982.6	972.2	2838.7	3327.4	4689.5	4008.5
82.5°	462.7	478.3	556.3	618.7	691.5	587.5	1164.6	1253.0	1928.8	1533.7
85°	322.3	332.7	436.7	421.1	421.1	327.5	483.5	509.5	764.3	727.9
87.5°	78.0	88.4	213.2	234.0	176.8	98.8	150.8	171.6	275.5	317.1
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°
5963.3	0°	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
6067.3	2.5°	5989.3	6010.1	6098.5	6051.7	6077.7	5968.5	6056.9	5984.1	6046.5	6015.3
6114.1	5°	6155.7	6108.9	6160.9	6124.5	6124.5	6166.1	6228.5	6181.7	6275.3	6233.7
6150.5	7.5°	6223.3	6228.5	6259.7	6264.9	6238.9	6368.8	6374.0	6358.4	6446.8	6426.0
6400.0	10°	6389.6	6394.8	6452.0	6483.2	6457.2	6504.0	6452.0	6410.4	6405.2	6384.4
6597.6	12.5°	6654.8	6706.8	6696.4	6722.4	6727.6	6530.0	6410.4	6207.7	6181.7	6207.7
6888.7	15°	6899.1	6878.3	6888.7	6940.7	6722.4	6405.2	6192.1	6020.5	6030.9	6036.1
7268.3	17.5°	7190.3	7205.9	7221.5	6982.3	6582.0	6207.7	6020.5	6020.5	5968.5	5989.3
7533.4	20°	7523.0	7460.6	7325.5	6987.5	6337.6	5978.9	5921.7	5921.7	5859.3	5817.7
7819.4	22.5°	7783.0	7658.2	7455.4	6826.4	6119.3	5890.5	5750.2	5651.4	5578.6	5495.4
8136.5	25°	7949.4	7881.8	7486.6	6660.0	5958.1	5656.6	5448.6	5297.8	5204.3	5095.1
8386.1	27.5°	8204.1	8074.1	7575.0	6467.6	5781.3	5422.6	5100.3	4866.3	4689.5	4575.2
8765.6	30°	8547.2	8360.1	7512.6	6192.1	5511.0	5017.1	4637.6	4336.0	4133.2	4039.7
9124.3	32.5°	8828.0	8583.6	7460.6	5942.5	5209.5	4606.4	4102.1	3795.3	3680.9	3561.4
9727.4	35°	9363.5	8880.0	7424.2	5802.1	4939.1	4195.6	3665.3	3400.2	3254.6	3077.8
10086.2	37.5°	9774.2	9394.7	7335.9	5511.0	4590.8	3795.3	3332.6	3093.4	2875.1	2687.9
10918.0	40°	10418.9	10112.2	7341.1	5100.3	4180.0	3452.2	3072.6	2823.1	2547.5	2386.4
12150.2	42.5°	11630.3	10819.2	7372.3	4772.7	3717.3	3171.4	2838.7	2542.3	2266.8	2131.6
13553.9	45°	13117.2	11791.5	7179.9	4476.4	3244.2	2906.3	2557.9	2261.6	2084.8	1986.0
15462.0	47.5°	14827.7	12742.9	6919.9	3920.1	2849.1	2625.5	2298.0	2126.4	1996.4	1939.2
17921.1	50°	16741.0	14105.0	6847.2	3410.6	2542.3	2386.4	2173.2	2043.2	1954.8	1887.3
20692.2	52.5°	19205.3	15690.7	6701.6	2885.5	2277.2	2194.0	2126.4	2038.0	1960.0	1902.9
23276.2	55°	21560.5	17448.0	6545.6	2454.0	2090.0	2100.4	2136.8	2058.8	1991.2	1902.9
26172.0	57.5°	24212.0	19241.7	5968.5	2136.8	1949.6	2053.6	2126.4	2038.0	1970.4	1902.9
29135.5	60°	25849.7	20250.3	4840.3	1861.3	1824.9	1965.2	2064.0	1970.4	1897.7	1923.7
30497.7	62.5°	26515.2	19720.0	3649.7	1689.7	1736.5	1845.7	1965.2	1928.8	1876.9	1975.6
30482.1	65°	25381.8	18498.2	2609.9	1544.1	1616.9	1726.1	1876.9	1918.5	1934.0	2126.4
27996.9	67.5°	22584.7	16106.7	1918.5	1424.5	1492.1	1653.3	1939.2	2006.8	1996.4	2235.6
23494.5	70°	18071.9	12597.3	1497.3	1325.8	1445.3	1710.5	2027.6	2027.6	1954.8	2235.6
17921.1	72.5°	13148.4	8880.0	1289.4	1211.4	1325.8	1570.1	2017.2	2012.0	1918.5	2043.2
11411.9	75°	7959.8	5167.9	1138.6	1097.0	1138.6	1346.6	1928.8	1897.7	1767.7	1757.3
5490.2	77.5°	3966.9	2599.5	930.6	972.2	993.0	1128.2	1694.9	1741.7	1564.9	1523.3
2168.0	80°	1674.1	1133.4	774.7	837.0	837.0	951.4	1408.9	1440.1	1299.8	1221.8
857.8	82.5°	764.3	649.9	660.3	727.9	681.1	738.3	1117.8	1154.2	1055.4	925.4
363.9	85°	322.3	369.1	504.3	571.9	504.3	478.3	769.5	811.1	686.3	571.9
156.0	87.5°	145.6	202.8	317.1	415.9	254.8	223.6	410.7	426.3	343.1	254.8
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>
5963.3
5958.1
6176.5
6394.8
6384.4
6218.1
6108.9
5994.5
5755.4
5448.6
5115.9
4627.2
4091.7
3556.2
3062.2
2693.1
2402.0
2142.0
2006.8
1928.8
1897.7
1897.7
1897.7
1897.7
1902.9
1949.6
2126.4
2251.2
2188.8
1970.4
1736.5
1497.3
1195.8
904.6
577.1
239.2
0.0

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