

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: P477790

Luminaire Tested: **IFLD-M-SA4E-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477790
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

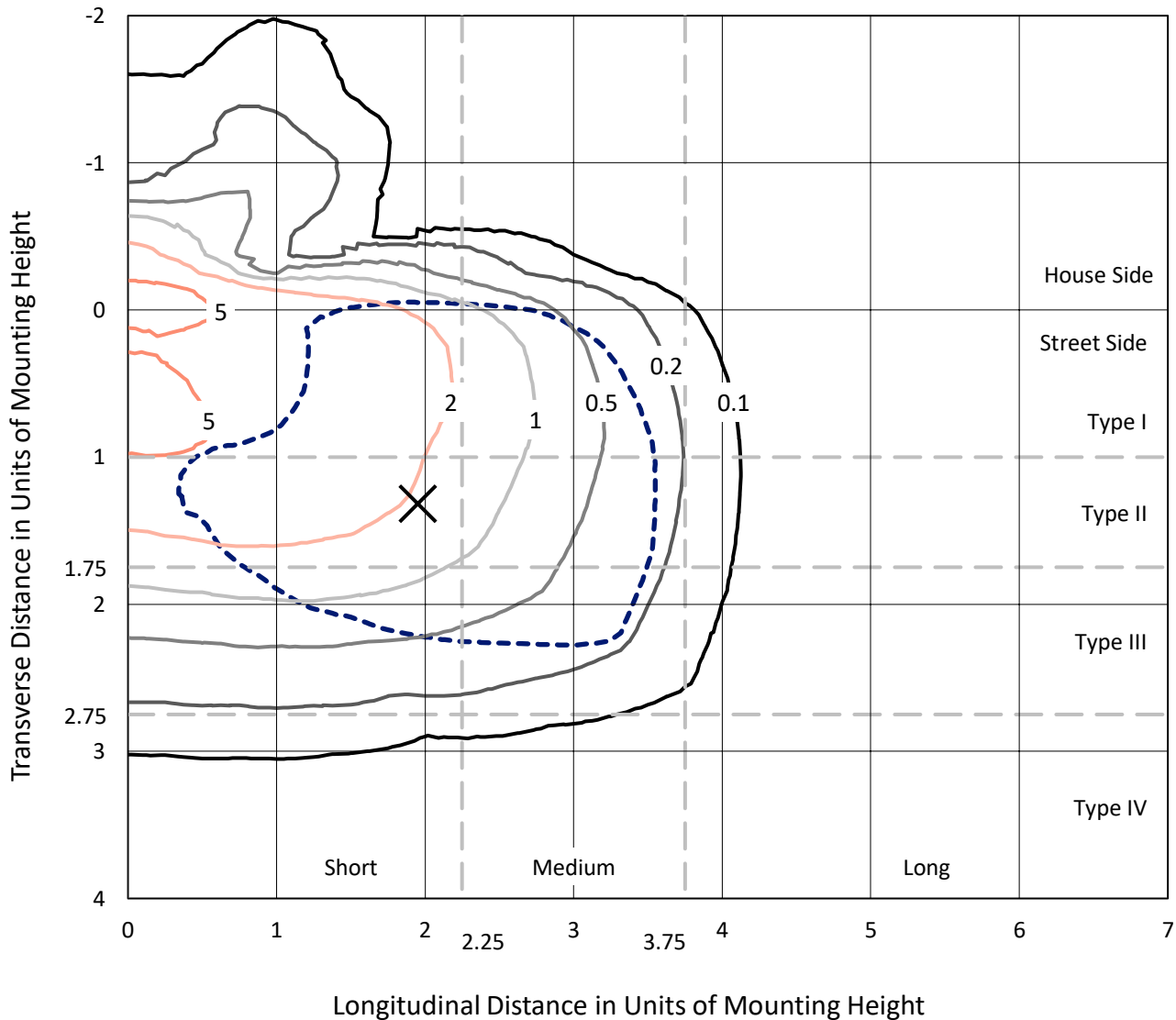
Lumens per Lamp: N/A
Luminaire Lumens: 35563.7 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

REPORT NUMBER: P477790
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Iso-Footcandle Lines of Horizontal Illumination

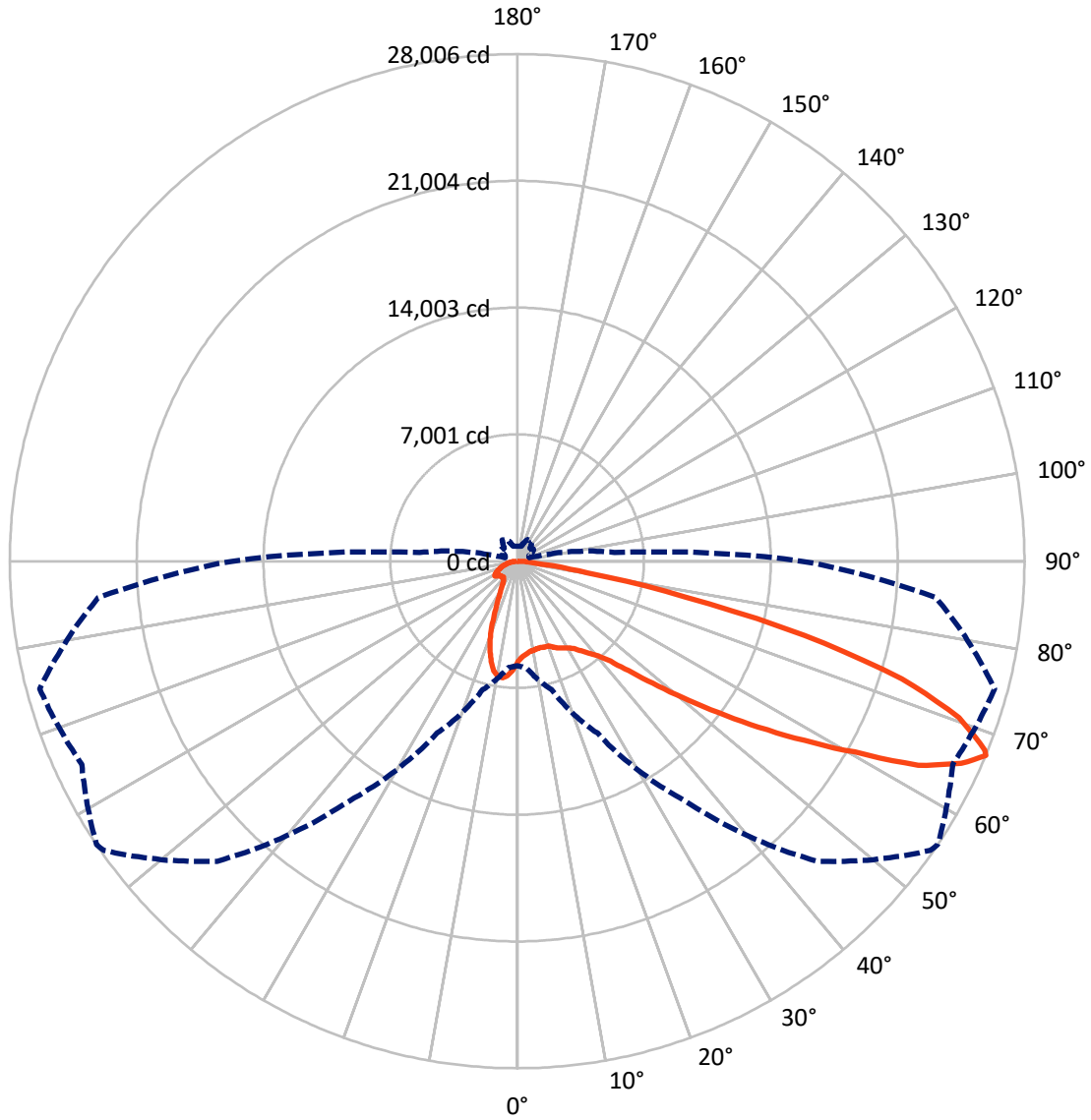
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P477790
CATALOG NUMBER: IFLD-M-SA4E-740-U-T3R

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	5630.1	0.0	5630.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	29933.6	0.0	29933.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	35563.7	0.0	35563.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.1	1.5
10°-20°	1454.3	4.1
20°-30°	2280.8	6.4
30°-40°	3255.9	9.2
40°-50°	4914.1	13.8
50°-60°	7822.5	22.0
60°-70°	10000.4	28.1
70°-80°	4875.9	13.7
80°-90°	426.5	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°	35563.7	100.0
0°-180°	35563.7	100.0

Coefficient of Utilization

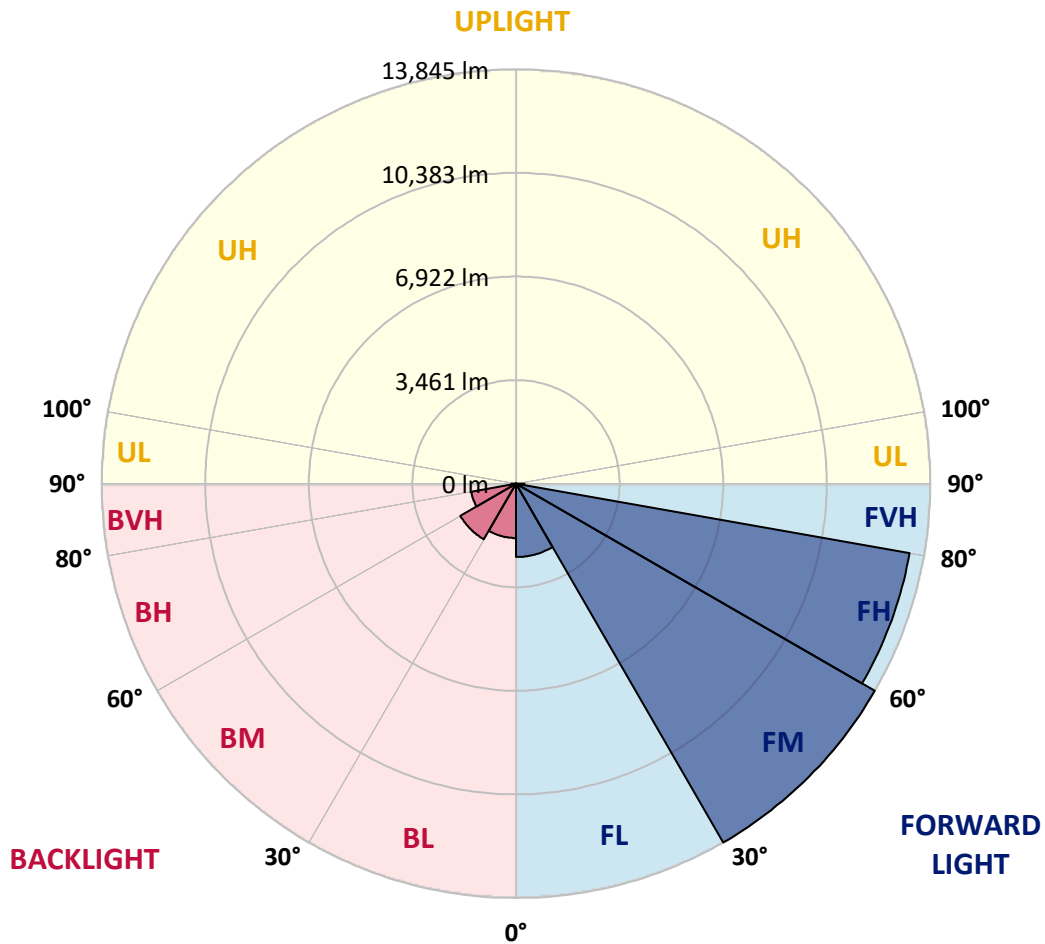


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.7	6.9			
FM (30°-60°)	13844.6	38.9			
FH (60°-80°)	13354.9	37.6			G5
FVH (80°-90°)	283.3	0.8			G3/500
BL (0°-30°)	1817.5	5.1	B3/2500		
BM (30°-60°)	2147.9	6.0	B2/2500		
BH (60°-80°)	1521.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	143.3	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°	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6
2.5°	5083.2	5062.4	5087.4	5062.4	5175.0	5241.7	5262.6	5291.7	5396.0	5496.1
5°	4870.6	4778.8	4878.9	4912.3	4920.6	5033.2	5150.0	5170.8	5225.0	5387.7
7.5°	4516.1	4620.4	4582.8	4682.9	4787.2	4899.8	5091.6	5037.4	5237.5	5391.8
10°	4441.1	4449.4	4491.1	4528.6	4620.4	4766.3	5033.2	4999.8	5204.2	5533.6
12.5°	4516.1	4516.1	4503.6	4474.4	4578.7	4720.5	4933.1	4949.8	5270.9	5575.3
15°	4778.8	4828.9	4695.4	4716.3	4674.6	4720.5	4908.1	4945.6	5295.9	5608.7
17.5°	5421.0	5404.3	5245.9	5024.9	4841.4	4812.2	4941.5	4983.2	5270.9	5704.6
20°	6046.5	6013.2	5737.9	5508.6	5145.8	4974.8	4995.7	4999.8	5312.6	5767.1
22.5°	6742.9	6830.5	6530.2	6063.2	5612.8	5187.5	5104.1	5170.8	5408.5	5800.5
25°	7835.5	7647.8	7389.3	6776.3	6050.7	5516.9	5283.4	5316.8	5500.3	5883.9
27.5°	8623.6	8548.5	8144.0	7647.8	6663.7	5775.5	5379.3	5441.9	5667.1	5879.7
30°	9382.5	9382.5	9136.5	8394.2	7310.0	6209.2	5583.7	5554.5	5587.8	5871.4
32.5°	10270.7	10149.8	9795.4	9303.3	8123.2	6605.3	5746.3	5754.6	5754.6	6025.7
35°	10737.8	10933.8	10696.1	9895.4	8744.5	7264.2	6138.3	6075.7	6029.8	6196.6
37.5°	11421.7	11538.4	11288.2	10817.0	9516.0	7797.9	6484.4	6434.3	6167.5	6330.1
40°	11834.5	11813.7	11805.3	11588.5	10537.6	8427.6	6993.1	6863.8	6505.2	6801.3
42.5°	12068.0	12026.3	12539.2	12405.8	11500.9	9353.3	7631.1	7560.2	7164.1	7639.5
45°	12330.7	12639.3	13060.5	13435.8	12622.6	10654.4	8711.2	8611.1	8256.6	8861.3
47.5°	12560.1	12939.6	13477.5	13877.8	13636.0	12068.0	10045.6	10070.6	9837.1	10458.4
50°	12943.7	12981.3	13711.0	14520.0	14707.6	13373.2	11838.7	11797.0	11692.7	12564.3
52.5°	12827.0	12939.6	13861.1	14895.3	15203.9	14753.5	13765.2	13890.3	13752.7	14849.4
55°	10925.4	11263.2	13769.4	15291.4	16379.8	16313.1	16242.2	16158.8	16150.5	17418.2
57.5°	10062.2	10337.5	12130.6	15729.3	17639.2	18131.2	18589.9	18681.7	18677.5	20207.9
60°	9495.1	9778.7	11467.5	15491.6	18710.9	20512.3	21392.2	21404.7	21379.7	23189.5
62.5°	8385.9	8661.1	10320.8	14190.6	19006.9	22709.9	24669.8	24832.4	23685.7	25758.2
65°	7051.5	7276.7	8740.4	12201.5	18218.8	24106.9	27134.3	26942.5	25628.9	27226.0
67°	5767.1	5917.3	7343.4	10475.1	16158.8	23435.5	27847.4	28005.8	26525.5	27288.6
67.5°	5400.2	5537.8	6884.7	9887.1	15374.8	22926.7	27872.4	27847.4	26542.1	27301.1
70°	3748.8	3807.2	4691.3	6801.3	11325.8	19369.7	25837.4	25895.8	25428.8	25820.7
72.5°	2485.3	2572.9	3135.9	4286.8	6676.2	14094.7	21596.5	22222.0	21925.9	21171.2
75°	1601.3	1651.3	2051.6	2552.0	3286.0	8027.3	15954.5	16371.5	15691.8	13093.8
77.5°	896.6	950.8	1238.5	1551.2	1601.3	3340.2	8961.4	9478.4	8031.4	5562.8
80°	558.8	629.7	934.1	921.6	763.1	1226.0	3694.6	3957.3	3210.9	1914.0
82.5°	421.2	475.4	721.4	646.4	429.5	546.3	1384.4	1484.5	1175.9	738.1
85°	287.7	362.8	521.3	400.3	225.2	262.7	550.4	592.1	537.9	358.6
87.5°	104.3	154.3	271.1	200.2	100.1	79.2	179.3	200.2	191.8	162.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477790

CATALOG NUMBER: IFLD-M-SA4E-740-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5533.6	0°	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6	5533.6
5583.7	2.5°	5662.9	5721.3	5750.5	5921.4	5992.3	5979.8	5996.5	6021.5	6046.5	6079.9
5654.5	5°	5708.8	5888.1	5984.0	6184.1	6317.6	6259.2	6334.3	6313.4	6284.2	6280.0
5783.8	7.5°	5858.9	6088.2	6376.0	6430.2	6488.5	6342.6	6217.5	6046.5	6004.8	5858.9
5892.2	10°	6125.8	6313.4	6663.7	6684.5	6426.0	6050.7	5771.3	5416.9	5412.7	5200.0
6059.0	12.5°	6380.1	6592.8	6876.4	6755.4	6138.3	5625.4	5170.8	4783.0	4620.4	4512.0
6159.1	15°	6538.6	6888.9	7039.0	6517.7	5633.7	4941.5	4353.5	3936.5	3769.7	3690.5
6284.2	17.5°	6684.5	7172.4	7105.7	6100.7	5012.4	4236.7	3536.2	3173.4	3127.5	3069.1
6484.4	20°	6884.7	7276.7	6868.0	5558.6	4307.6	3327.7	2881.5	2706.3	2748.0	2773.1
6505.2	22.5°	7072.3	7330.9	6567.8	4966.5	3402.7	2635.4	2414.4	2452.0	2514.5	2597.9
6555.3	25°	7155.7	7418.5	6163.3	4149.2	2589.6	2218.4	2168.4	2231.0	2335.2	2339.4
6626.2	27.5°	7210.0	7355.9	5675.4	3352.7	2047.5	1939.1	2014.1	2060.0	2072.5	2122.5
6776.3	30°	7305.9	7226.6	5058.2	2397.8	1718.0	1722.2	1818.1	1818.1	1818.1	1855.7
6926.4	32.5°	7472.7	7139.1	4336.8	1751.4	1480.4	1613.8	1588.8	1580.4	1563.8	1517.9
7118.2	35°	7576.9	6901.4	3423.6	1296.9	1330.2	1480.4	1472.0	1342.7	1125.9	1017.5
7606.1	37.5°	7793.8	6780.4	2518.7	1000.8	1242.7	1413.6	1367.8	1055.0	817.3	713.1
8210.8	40°	8260.8	6701.2	1743.1	875.7	1184.3	1380.3	1221.8	900.7	625.5	442.0
9144.8	42.5°	8832.1	6705.4	1184.3	825.7	1188.5	1451.2	1175.9	771.5	442.0	354.5
10391.7	45°	9599.4	6642.8	813.2	825.7	1263.5	1567.9	1205.1	700.6	429.5	450.4
11955.4	47.5°	10425.0	6697.0	604.7	750.6	1276.0	1572.1	1100.9	688.1	412.8	521.3
13656.8	50°	11388.3	6751.3	500.4	692.2	1280.2	1522.1	1013.3	671.4	429.5	550.4
15608.4	52.5°	12380.8	6922.2	425.3	654.7	1330.2	1501.2	1013.3	696.4	429.5	479.6
18093.7	55°	13861.1	7360.1	613.0	817.3	1513.7	1638.8	1246.8	975.8	600.5	617.2
20474.8	57.5°	15495.8	7810.4	683.9	859.0	1555.4	1476.2	1342.7	1075.9	633.8	638.0
22326.3	60°	16571.6	7827.1	679.7	838.2	1455.3	1276.0	1313.6	1134.2	646.4	546.3
23473.0	62.5°	17001.2	7318.4	708.9	838.2	1355.3	1192.6	1346.9	1221.8	667.2	683.9
23798.3	65°	16513.3	6267.5	683.9	750.6	1192.6	1067.5	1355.3	1238.5	729.8	688.1
23214.5	67°	15750.1	5400.2	696.4	713.1	1109.2	1013.3	1426.1	1301.0	846.5	825.7
22910.1	67.5°	15533.3	5170.8	692.2	692.2	1080.0	996.6	1442.8	1301.0	863.2	854.9
20220.4	70°	13690.2	4190.9	708.9	683.9	954.9	946.6	1534.6	1371.9	992.5	1000.8
14853.6	72.5°	10420.9	3177.6	704.7	683.9	829.8	904.9	1547.1	1417.8	1080.0	1000.8
8319.2	75°	5921.4	1901.5	621.3	596.3	654.7	788.1	1447.0	1351.1	1050.8	896.6
3323.5	77.5°	2447.8	980.0	571.3	537.9	542.1	642.2	1205.1	1259.3	1000.8	763.1
1109.2	80°	913.2	588.0	458.7	429.5	417.0	471.2	859.0	1005.0	854.9	625.5
487.9	82.5°	475.4	367.0	312.8	312.8	283.6	300.2	462.9	667.2	646.4	429.5
196.0	85°	241.9	208.5	179.3	175.1	158.5	141.8	233.5	396.2	371.1	237.7
87.6	87.5°	129.3	116.8	75.1	70.9	58.4	37.5	41.7	79.2	129.3	104.3
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>
5533.6
6113.2
6317.6
5908.9
5191.7
4486.9
3673.8
3098.3
2743.9
2552.0
2381.1
2168.4
1897.4
1492.9
1067.5
708.9
429.5
346.1
458.7
579.6
638.0
492.1
650.5
617.2
563.0
692.2
675.5
813.2
838.2
925.7
888.2
800.6
721.4
571.3
337.8
196.0
75.1
0.0

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