

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: P477361

Luminaire Tested: **IFLD-M-SA4E-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

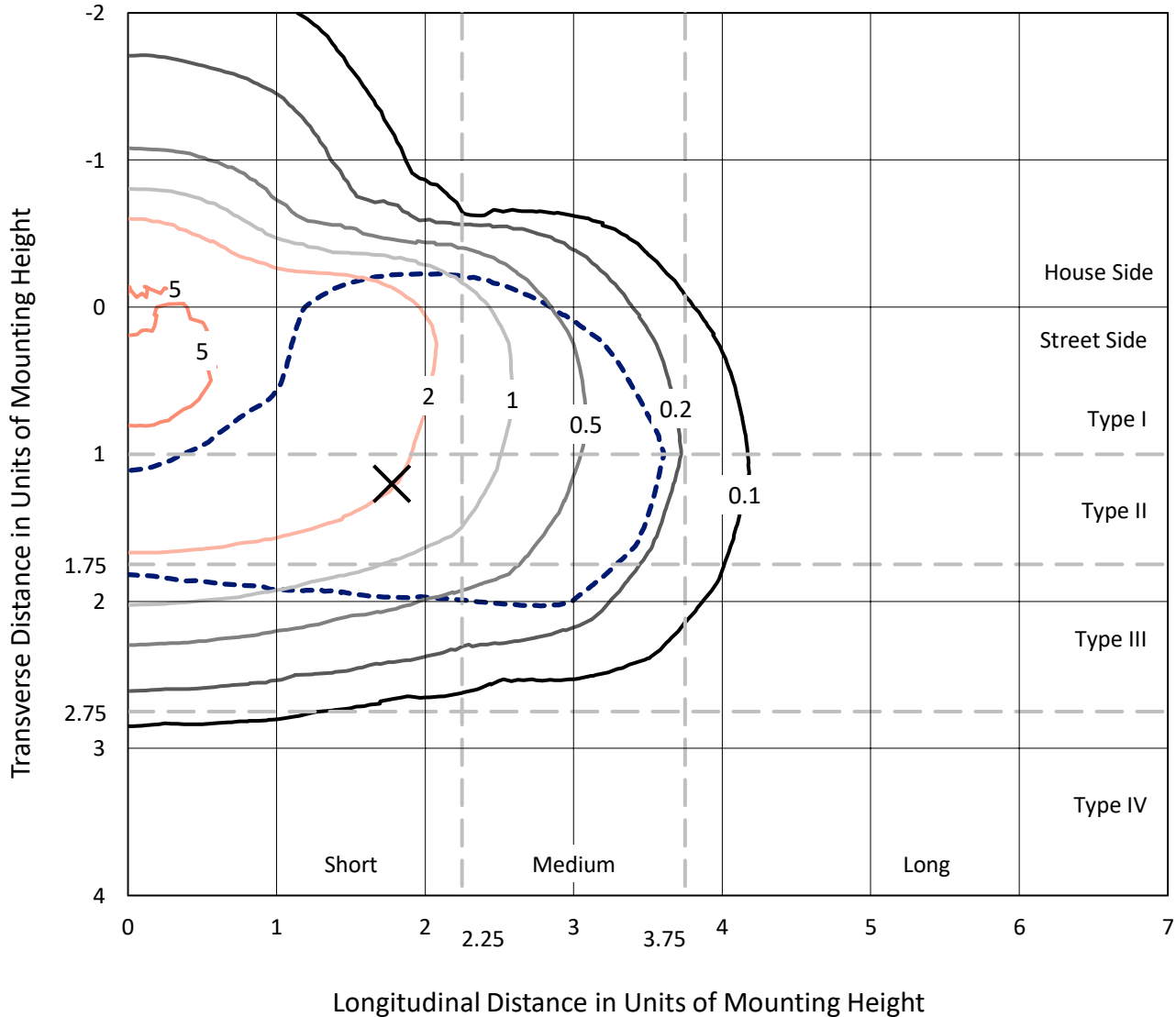
Lumens per Lamp: N/A
Luminaire Lumens: 36369.9 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

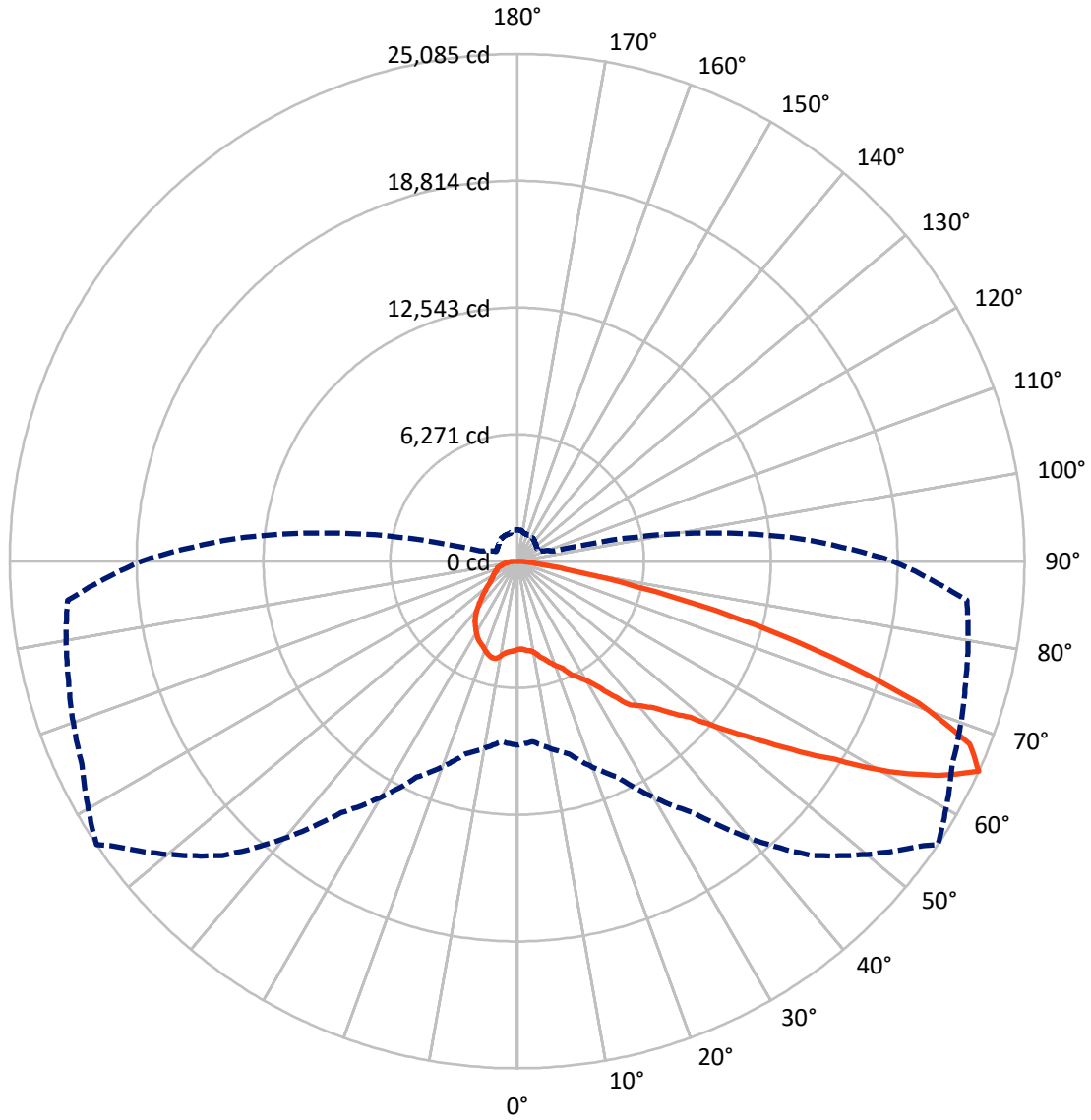
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	8156.6	0.0	8156.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28213.3	0.0	28213.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	36369.9	0.0	36369.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	1.2
10°-20°	1404.7	3.9
20°-30°	2501.2	6.9
30°-40°	3745.4	10.3
40°-50°	5549.3	15.3
50°-60°	8550.7	23.5
60°-70°	9680.5	26.6
70°-80°	4017.5	11.0
80°-90°	488.1	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°	36369.9	100.0
0°-180°	36369.9	100.0

Coefficient of Utilization

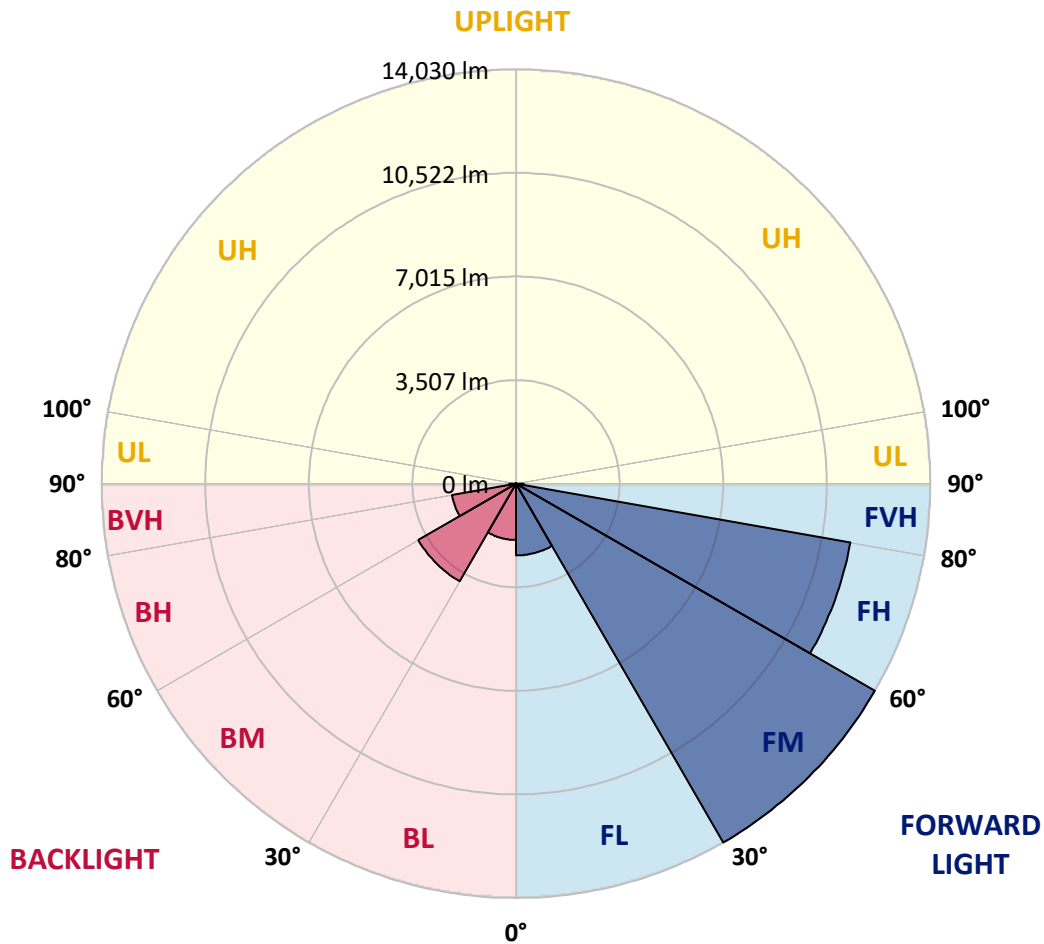


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.6	6.7			
FM (30°-60°)	14029.9	38.6			
FH (60°-80°)	11495.4	31.6			G4/12000
FVH (80°-90°)	257.5	0.7			G3/500
BL (0°-30°)	1907.9	5.2	B3/2500		
BM (30°-60°)	3815.5	10.5	B3/5000		
BH (60°-80°)	2202.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	230.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4
2.5°	4251.3	4274.1	4258.9	4304.5	4342.6	4342.6	4373.0	4350.2	4380.7	4422.5
5°	4392.1	4300.7	4350.2	4373.0	4361.6	4380.7	4350.2	4426.3	4376.8	4456.8
7.5°	4426.3	4460.6	4502.4	4464.4	4498.6	4479.6	4483.4	4472.0	4445.4	4510.1
10°	4677.5	4628.0	4723.2	4666.1	4658.5	4650.9	4635.7	4578.6	4643.3	4647.1
12.5°	4966.8	4921.1	4917.3	4871.6	4932.5	4822.1	4845.0	4814.5	4825.9	4841.2
15°	5176.1	5157.1	5244.6	5191.3	5111.4	5061.9	5115.2	5031.5	5073.3	5065.7
17.5°	5590.9	5587.1	5522.4	5434.9	5389.2	5316.9	5305.5	5271.2	5301.7	5286.5
20°	5880.2	5922.1	5933.5	5830.7	5655.6	5575.7	5556.7	5530.1	5564.3	5552.9
22.5°	6321.7	6257.0	6306.5	6127.6	6062.9	5872.6	5804.1	5766.0	5929.7	5887.8
25°	6603.3	6671.8	6622.4	6561.5	6416.8	6180.9	6131.4	6215.1	6279.8	6234.2
27.5°	7238.9	7170.4	7124.7	6942.1	6846.9	6599.5	6542.4	6512.0	6527.2	6553.9
30°	7722.3	7760.3	7657.6	7528.2	7288.4	7037.2	6904.0	6877.4	6824.1	6778.4
32.5°	8411.2	8354.1	8293.2	8209.4	8003.9	7672.8	7543.4	7444.4	7284.6	7071.5
35°	8742.3	8905.9	8860.3	8635.7	8479.7	8354.1	8316.0	8163.8	8030.6	7695.6
37.5°	9294.1	9362.6	9297.9	9225.6	9153.3	9020.1	8974.4	9016.3	8753.7	8201.8
40°	9651.9	9796.5	9929.7	9728.0	9712.8	9739.4	9457.8	9408.3	8867.9	8578.6
42.5°	10382.6	10443.5	10470.2	10462.6	10550.1	10550.1	10013.5	9906.9	9522.5	9286.5
45°	11349.4	11398.8	11494.0	11562.5	11463.5	11513.0	10748.0	10706.1	10363.6	10317.9
47.5°	12186.7	12304.6	12517.8	12719.5	12848.9	12681.4	11844.1	11547.3	11459.7	11733.8
50°	12917.4	12776.6	13275.2	13480.7	14047.8	14325.6	13054.4	12936.4	12795.6	13320.8
52.5°	12989.7	13180.0	13884.1	14295.2	15463.6	15977.4	14538.7	14489.3	14318.0	14923.1
55°	13507.3	13484.5	14192.4	15083.0	16472.2	17336.1	16472.2	16441.7	16068.7	16643.4
57.5°	13419.8	13652.0	14211.4	15456.0	17381.8	18793.8	18713.9	18504.5	17983.1	18451.3
60°	13122.9	13183.8	13865.1	15444.6	17910.8	20289.5	21134.5	21176.3	20110.7	20483.6
62.5°	11440.7	11581.5	12445.5	14230.5	17534.0	21321.0	23498.0	23349.5	22497.0	22070.7
65°	9100.0	8959.2	9857.4	11787.0	15189.6	20590.2	24533.2	25085.0	23745.3	22965.1
67.5°	5579.5	5545.3	6409.2	8110.5	11364.6	17522.6	23707.3	24137.4	23399.0	22774.8
70°	2873.5	2786.0	3326.4	4525.3	7143.8	12856.5	20632.1	21054.5	21758.6	20426.6
72.5°	1339.7	1320.7	1609.9	2226.5	3638.5	7558.6	15977.4	16281.9	17766.2	17221.9
75°	787.8	799.3	962.9	1164.6	1773.6	3562.4	10603.4	11193.3	12803.2	12411.2
77.5°	589.9	589.9	685.1	810.7	1035.2	1377.8	5233.2	6013.4	7486.3	6732.7
80°	433.9	441.5	525.2	609.0	719.3	711.7	2078.1	2435.8	3433.0	2934.4
82.5°	338.7	350.1	407.2	452.9	506.2	430.1	852.5	917.2	1412.0	1122.8
85°	236.0	243.6	319.7	308.3	308.3	239.8	354.0	373.0	559.5	532.8
87.5°	57.1	64.7	156.0	171.3	129.4	72.3	110.4	125.6	201.7	232.2
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°
4365.4	0°	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4	4365.4
4441.5	2.5°	4384.5	4399.7	4464.4	4430.1	4449.2	4369.2	4433.9	4380.7	4426.3	4403.5
4475.8	5°	4506.2	4472.0	4510.1	4483.4	4483.4	4513.9	4559.5	4525.3	4593.8	4563.3
4502.4	7.5°	4555.7	4559.5	4582.4	4586.2	4567.1	4662.3	4666.1	4654.7	4719.4	4704.2
4685.1	10°	4677.5	4681.3	4723.2	4746.0	4727.0	4761.2	4723.2	4692.7	4688.9	4673.7
4829.8	12.5°	4871.6	4909.7	4902.1	4921.1	4924.9	4780.3	4692.7	4544.3	4525.3	4544.3
5042.9	15°	5050.5	5035.3	5042.9	5080.9	4921.1	4688.9	4532.9	4407.3	4414.9	4418.7
5320.7	17.5°	5263.6	5275.1	5286.5	5111.4	4818.3	4544.3	4407.3	4407.3	4369.2	4384.5
5514.8	20°	5507.2	5461.5	5362.6	5115.2	4639.5	4376.8	4335.0	4335.0	4289.3	4258.9
5724.2	22.5°	5697.5	5606.2	5457.7	4997.2	4479.6	4312.1	4209.4	4137.1	4083.8	4022.9
5956.3	25°	5819.3	5769.8	5480.6	4875.4	4361.6	4140.9	3988.6	3878.3	3809.8	3729.8
6139.0	27.5°	6005.8	5910.6	5545.3	4734.6	4232.2	3969.6	3733.6	3562.4	3433.0	3349.2
6416.8	30°	6257.0	6120.0	5499.6	4532.9	4034.3	3672.7	3394.9	3174.2	3025.7	2957.2
6679.4	32.5°	6462.5	6283.6	5461.5	4350.2	3813.6	3372.1	3002.9	2778.3	2694.6	2607.1
7120.9	35°	6854.5	6500.6	5434.9	4247.4	3615.7	3071.4	2683.2	2489.1	2382.5	2253.1
7383.5	37.5°	7155.2	6877.4	5370.2	4034.3	3360.7	2778.3	2439.6	2264.5	2104.7	1967.7
7992.5	40°	7627.1	7402.6	5374.0	3733.6	3060.0	2527.2	2249.3	2066.6	1864.9	1746.9
8894.5	42.5°	8513.9	7920.2	5396.8	3493.9	2721.3	2321.6	2078.1	1861.1	1659.4	1560.4
9922.1	45°	9602.4	8631.9	5256.0	3276.9	2374.9	2127.5	1872.5	1655.6	1526.2	1453.9
11318.9	47.5°	10854.6	9328.4	5065.7	2869.7	2085.7	1922.0	1682.2	1556.6	1461.5	1419.6
13119.1	50°	12255.2	10325.6	5012.4	2496.7	1861.1	1746.9	1590.9	1495.7	1431.0	1381.6
15147.7	52.5°	14059.2	11486.4	4905.9	2112.3	1667.0	1606.1	1556.6	1491.9	1434.8	1393.0
17039.3	55°	15783.3	12772.8	4791.7	1796.4	1530.0	1537.6	1564.2	1507.2	1457.7	1393.0
19159.2	57.5°	17724.3	14085.8	4369.2	1564.2	1427.2	1503.4	1556.6	1491.9	1442.5	1393.0
21328.6	60°	18923.2	14824.2	3543.3	1362.5	1335.9	1438.7	1511.0	1442.5	1389.2	1408.2
22325.7	62.5°	19410.4	14436.0	2671.8	1236.9	1271.2	1351.1	1438.7	1412.0	1373.9	1446.3
22314.3	65°	18580.7	13541.6	1910.6	1130.4	1183.7	1263.6	1373.9	1404.4	1415.8	1556.6
20495.1	67.5°	16533.1	11790.8	1404.4	1042.8	1092.3	1210.3	1419.6	1469.1	1461.5	1636.6
17199.1	70°	13229.5	9221.8	1096.1	970.5	1058.1	1252.2	1484.3	1484.3	1431.0	1636.6
13119.1	72.5°	9625.3	6500.6	943.9	886.8	970.5	1149.4	1476.7	1472.9	1404.4	1495.7
8354.1	75°	5826.9	3783.1	833.5	803.1	833.5	985.7	1412.0	1389.2	1294.0	1286.4
4019.1	77.5°	2903.9	1903.0	681.3	711.7	726.9	825.9	1240.7	1275.0	1145.6	1115.1
1587.1	80°	1225.5	829.7	567.1	612.8	612.8	696.5	1031.4	1054.2	951.5	894.4
628.0	82.5°	559.5	475.7	483.4	532.8	498.6	540.4	818.3	844.9	772.6	677.5
266.4	85°	236.0	270.2	369.2	418.7	369.2	350.1	563.3	593.7	502.4	418.7
114.2	87.5°	106.6	148.4	232.2	304.5	186.5	163.7	300.7	312.1	251.2	186.5
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>
4365.4
4361.6
4521.5
4681.3
4673.7
4551.9
4472.0
4388.3
4213.2
3988.6
3745.1
3387.3
2995.3
2603.3
2241.7
1971.5
1758.4
1568.1
1469.1
1412.0
1389.2
1389.2
1389.2
1389.2
1393.0
1427.2
1556.6
1648.0
1602.3
1442.5
1271.2
1096.1
875.4
662.2
422.5
175.1
0.0

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