

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: P477758

Luminaire Tested: **IFLD-L-SA8B-735-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477758  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

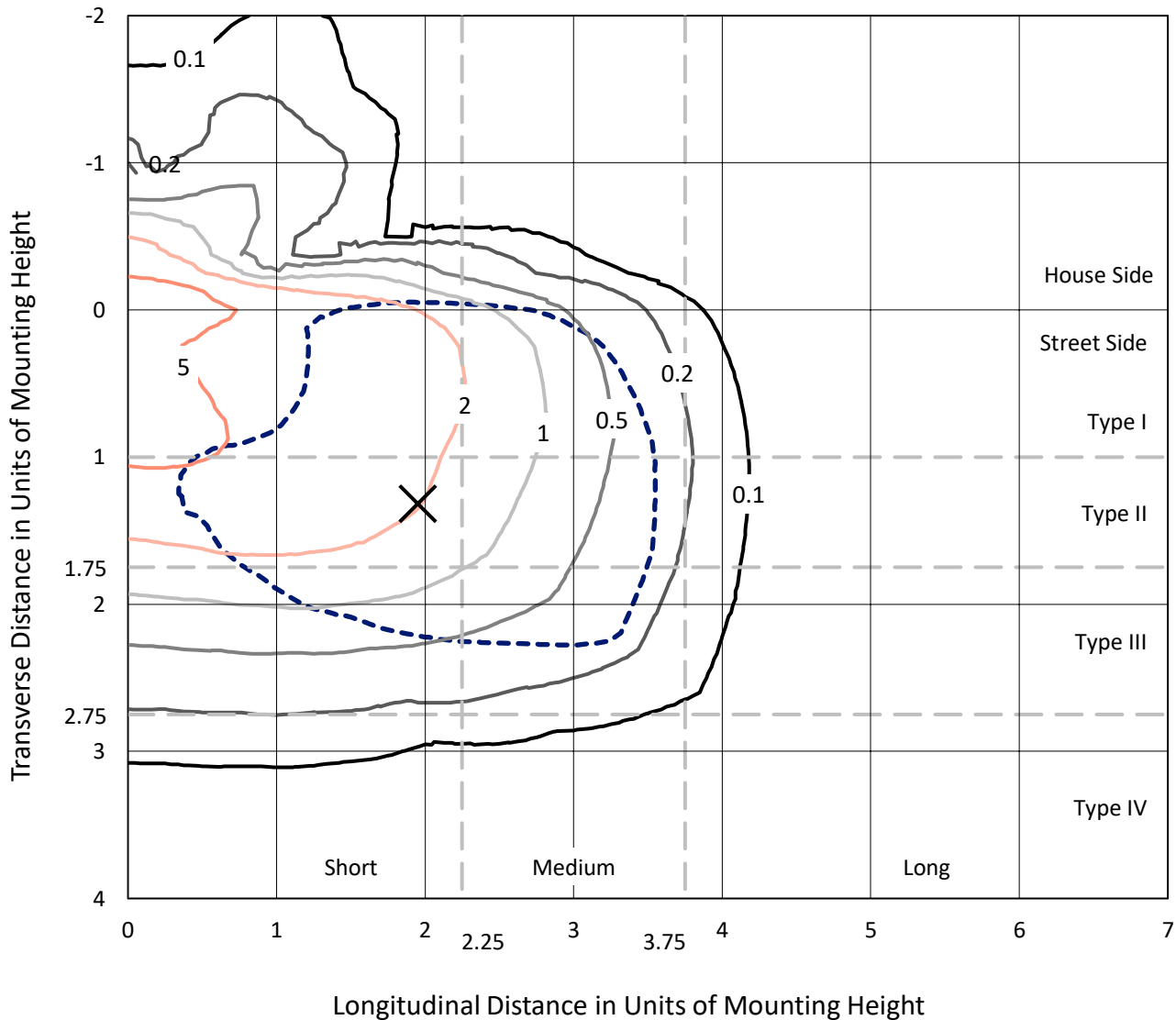
Lumens per Lamp: N/A  
Luminaire Lumens: 39430.5 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

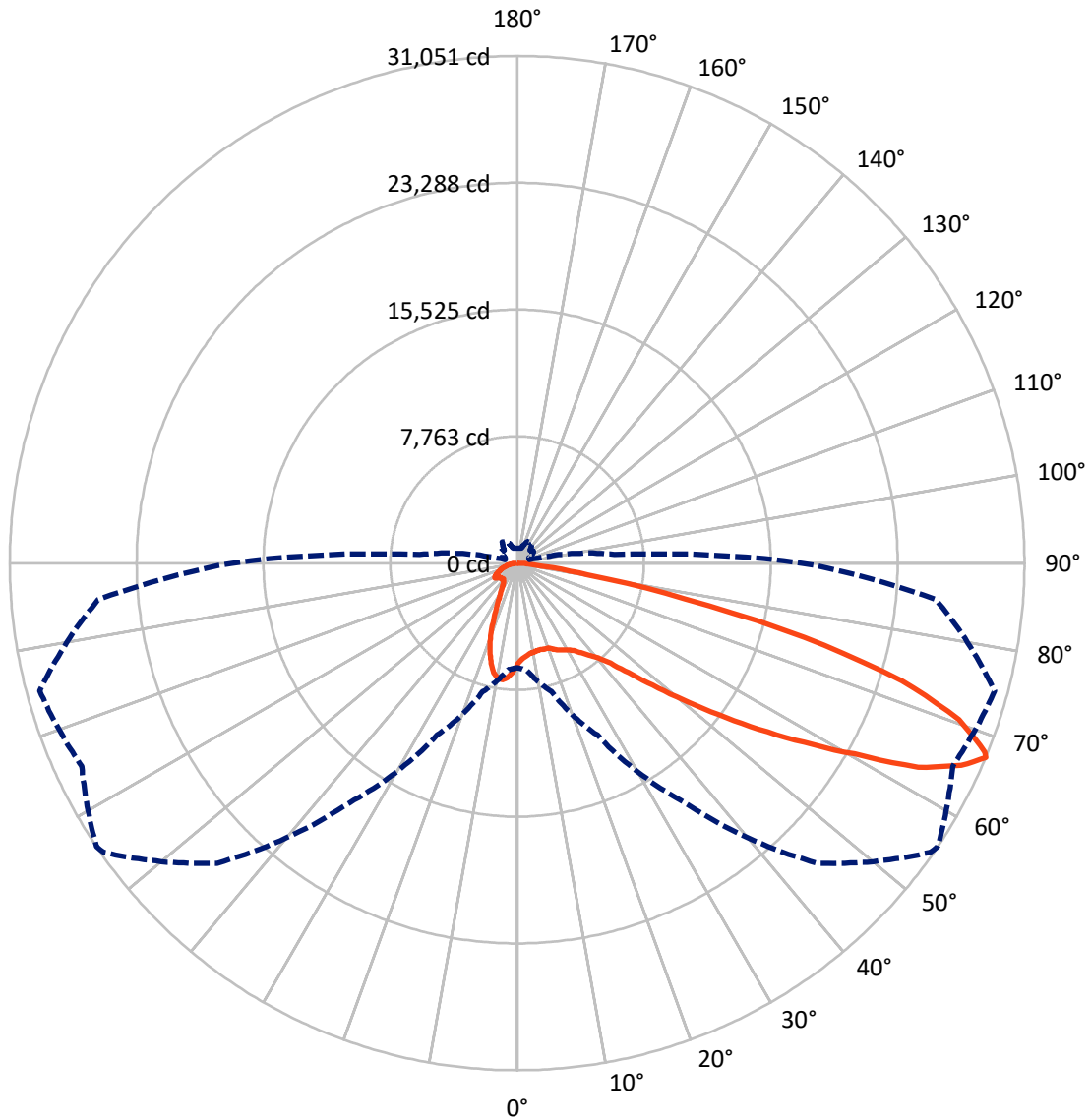
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

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### 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
<b>House Side</b>	Lumens	6242.3	0.0	6242.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	33188.2	0.0	33188.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	39430.5	0.0	39430.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.1	1.5
10°-20°	1612.5	4.1
20°-30°	2528.8	6.4
30°-40°	3610.0	9.2
40°-50°	5448.5	13.8
50°-60°	8673.0	22.0
60°-70°	11087.8	28.1
70°-80°	5406.0	13.7
80°-90°	472.9	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°	39430.5	100.0
0°-180°	39430.5	100.0

**Coefficient of Utilization**

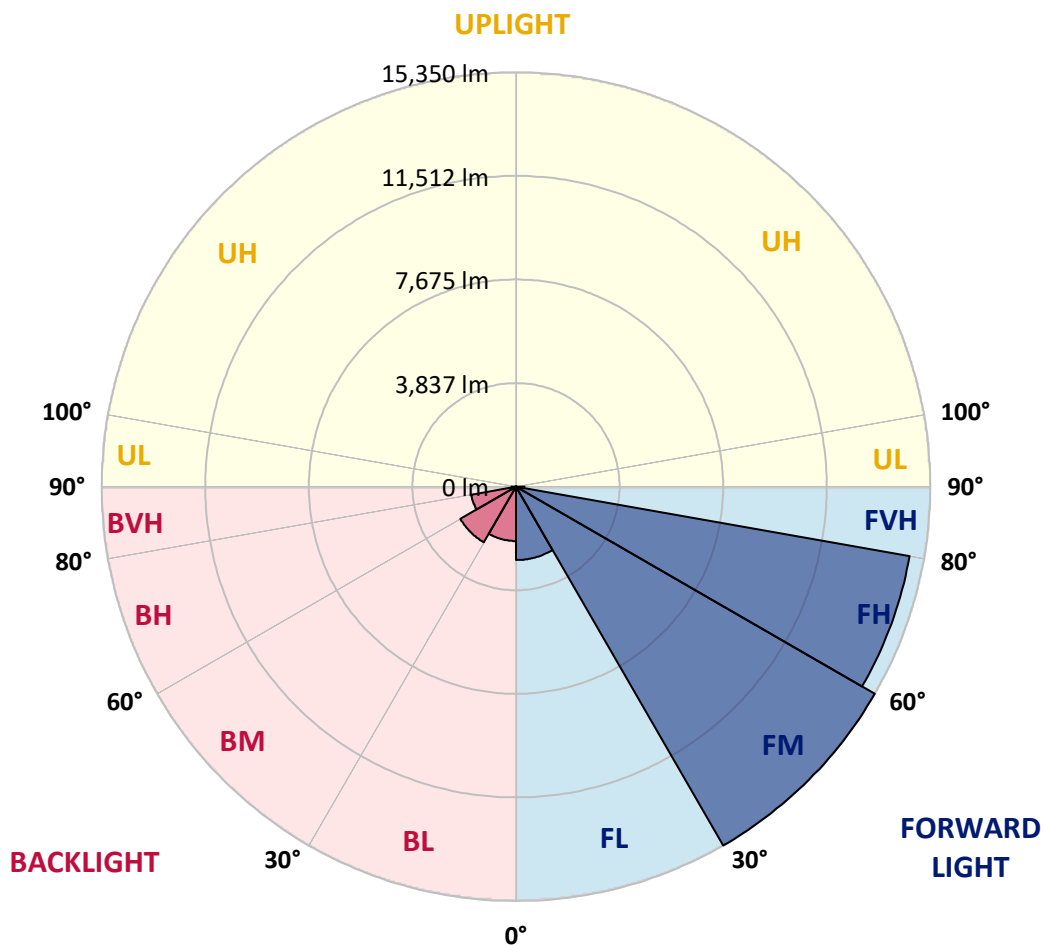


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.2	6.9			
FM (30°-60°)	15349.9	38.9			
FH (60°-80°)	14807.0	37.6			G5
FVH (80°-90°)	314.1	0.8			G3/500
BL (0°-30°)	2015.2	5.1	B3/2500		
BM (30°-60°)	2381.5	6.0	B2/2500		
BH (60°-80°)	1686.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	158.8	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°	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3
2.5°	5636.0	5612.8	5640.6	5612.8	5737.7	5811.6	5834.8	5867.1	5982.7	6093.7
5°	5400.2	5298.4	5409.4	5446.4	5455.6	5580.5	5709.9	5733.0	5793.1	5973.5
7.5°	5007.2	5122.8	5081.1	5192.1	5307.7	5432.5	5645.2	5585.1	5807.0	5978.1
10°	4923.9	4933.2	4979.4	5021.0	5122.8	5284.6	5580.5	5543.5	5770.0	6135.3
12.5°	5007.2	5007.2	4993.3	4960.9	5076.5	5233.7	5469.5	5488.0	5844.0	6181.5
15°	5298.4	5353.9	5206.0	5229.1	5182.9	5233.7	5441.8	5483.4	5871.7	6218.5
17.5°	6010.4	5992.0	5816.3	5571.2	5367.8	5335.4	5478.8	5525.0	5844.0	6324.8
20°	6704.0	6667.0	6361.8	6107.5	5705.3	5515.7	5538.9	5543.5	5890.2	6394.2
22.5°	7476.1	7573.2	7240.3	6722.5	6223.1	5751.5	5659.1	5733.0	5996.6	6431.2
25°	8687.4	8479.4	8192.7	7513.1	6708.6	6116.8	5857.9	5894.9	6098.3	6523.6
27.5°	9561.2	9478.0	9029.5	8479.4	7388.2	6403.4	5964.2	6033.6	6283.2	6519.0
30°	10402.7	10402.7	10129.9	9306.9	8104.9	6884.3	6190.8	6158.4	6195.4	6509.8
32.5°	11387.5	11253.4	10860.4	10314.9	9006.4	7323.5	6371.1	6380.3	6380.3	6680.8
35°	11905.3	12122.6	11859.1	10971.4	9695.3	8054.0	6805.7	6736.3	6685.5	6870.4
37.5°	12663.5	12793.0	12515.6	11993.2	10550.6	8645.8	7189.4	7133.9	6838.0	7018.4
40°	13121.3	13098.2	13088.9	12848.5	11683.4	9343.9	7753.5	7610.2	7212.5	7540.8
42.5°	13380.2	13333.9	13902.6	13754.7	12751.4	10370.3	8460.9	8382.3	7943.0	8470.1
45°	13671.5	14013.6	14480.6	14896.7	13995.1	11812.8	9658.3	9547.4	9154.4	9824.8
47.5°	13925.7	14346.5	14942.9	15386.7	15118.6	13380.2	11137.8	11165.6	10906.6	11595.5
50°	14351.1	14392.7	15201.8	16098.8	16306.8	14827.3	13125.9	13079.7	12964.1	13930.4
52.5°	14221.6	14346.5	15368.3	16514.9	16857.0	16357.7	15261.9	15400.6	15248.0	16464.0
55°	12113.4	12487.9	15266.5	16954.1	18160.8	18086.8	18008.2	17915.8	17906.5	19312.0
57.5°	11156.3	11461.5	13449.5	17439.5	19557.1	20102.6	20611.2	20712.9	20708.3	22405.1
60°	10527.5	10841.9	12714.4	17176.0	20745.3	22742.6	23718.1	23732.0	23704.3	25710.8
62.5°	9297.7	9602.8	11443.0	15733.5	21073.6	25179.2	27352.2	27532.5	26261.0	28558.9
65°	7818.2	8067.9	9690.7	13528.1	20199.7	26728.0	30084.6	29871.9	28415.5	30186.3
67°	6394.2	6560.6	8141.8	11614.0	17915.8	25983.6	30875.2	31050.9	29409.6	30255.7
67.5°	5987.3	6139.9	7633.3	10962.1	17046.6	25419.6	30902.9	30875.2	29428.1	30269.5
70°	4156.5	4221.2	5201.3	7540.8	12557.2	21475.8	28646.7	28711.4	28193.6	28628.2
72.5°	2755.6	2852.7	3476.8	4752.9	7402.1	15627.2	23944.7	24638.2	24309.9	23473.1
75°	1775.4	1830.9	2274.7	2829.5	3643.3	8900.1	17689.2	18151.6	17397.9	14517.5
77.5°	994.0	1054.1	1373.2	1719.9	1775.4	3703.4	9935.7	10509.0	8904.7	6167.6
80°	619.5	698.1	1035.6	1021.8	846.1	1359.3	4096.4	4387.6	3560.0	2122.2
82.5°	467.0	527.1	799.9	716.6	476.2	605.7	1535.0	1645.9	1303.8	818.3
85°	319.0	402.2	577.9	443.8	249.7	291.3	610.3	656.5	596.4	397.6
87.5°	115.6	171.1	300.5	221.9	111.0	87.8	198.8	221.9	212.7	180.3
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°
6135.3	0°	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3
6190.8	2.5°	6278.6	6343.3	6375.7	6565.3	6643.9	6630.0	6648.5	6676.2	6704.0	6740.9
6269.4	5°	6329.5	6528.3	6634.6	6856.5	7004.5	6939.8	7023.0	6999.9	6967.5	6962.9
6412.7	7.5°	6495.9	6750.2	7069.2	7129.3	7194.0	7032.2	6893.5	6704.0	6657.7	6495.9
6532.9	10°	6791.8	6999.9	7388.2	7411.3	7124.7	6708.6	6398.8	6005.8	6001.2	5765.4
6717.8	12.5°	7073.8	7309.6	7624.0	7489.9	6805.7	6237.0	5733.0	5303.1	5122.8	5002.5
6828.8	15°	7249.5	7637.9	7804.3	7226.4	6246.2	5478.8	4826.9	4364.5	4179.6	4091.7
6967.5	17.5°	7411.3	7952.3	7878.3	6764.1	5557.4	4697.4	3920.7	3518.4	3467.6	3402.8
7189.4	20°	7633.3	8067.9	7614.8	6163.0	4776.0	3689.5	3194.8	3000.6	3046.8	3074.6
7212.5	22.5°	7841.3	8128.0	7281.9	5506.5	3772.7	2922.0	2677.0	2718.6	2787.9	2880.4
7268.0	25°	7933.8	8225.1	6833.4	4600.3	2871.1	2459.7	2404.2	2473.5	2589.1	2593.7
7346.6	27.5°	7993.9	8155.7	6292.5	3717.2	2270.1	2149.9	2233.1	2284.0	2297.8	2353.3
7513.1	30°	8100.2	8012.4	5608.2	2658.5	1904.8	1909.5	2015.8	2015.8	2015.8	2057.4
7679.5	32.5°	8285.2	7915.3	4808.4	1941.8	1641.3	1789.3	1761.5	1752.3	1733.8	1682.9
7892.2	35°	8400.8	7651.8	3795.8	1437.9	1474.9	1641.3	1632.1	1488.7	1248.3	1128.1
8433.1	37.5°	8641.2	7517.7	2792.5	1109.6	1377.8	1567.3	1516.5	1169.7	906.2	790.6
9103.5	40°	9159.0	7429.8	1932.6	970.9	1313.1	1530.4	1354.7	998.7	693.5	490.1
10139.2	42.5°	9792.4	7434.5	1313.1	915.4	1317.7	1609.0	1303.8	855.3	490.1	393.0
11521.6	45°	10643.1	7365.1	901.6	915.4	1400.9	1738.4	1336.2	776.7	476.2	499.3
13255.3	47.5°	11558.6	7425.2	670.4	832.2	1414.8	1743.0	1220.6	762.9	457.7	577.9
15141.7	50°	12626.6	7485.3	554.8	767.5	1419.4	1687.5	1123.5	744.4	476.2	610.3
17305.5	52.5°	13726.9	7674.9	471.6	725.9	1474.9	1664.4	1123.5	772.1	476.2	531.7
20061.0	55°	15368.3	8160.3	679.6	906.2	1678.3	1817.0	1382.4	1081.9	665.8	684.3
22701.0	57.5°	17180.6	8659.7	758.2	952.4	1724.5	1636.7	1488.7	1192.8	702.8	707.4
24753.8	60°	18373.5	8678.2	753.6	929.3	1613.6	1414.8	1456.4	1257.6	716.6	605.7
26025.2	62.5°	18849.7	8114.1	786.0	929.3	1502.6	1322.3	1493.4	1354.7	739.7	758.2
26385.9	65°	18308.7	6949.0	758.2	832.2	1322.3	1183.6	1502.6	1373.2	809.1	762.9
25738.6	67°	17462.7	5987.3	772.1	790.6	1229.8	1123.5	1581.2	1442.5	938.6	915.4
25401.1	67.5°	17222.2	5733.0	767.5	767.5	1197.5	1105.0	1599.7	1442.5	957.0	947.8
22419.0	70°	15178.7	4646.5	786.0	758.2	1058.8	1049.5	1701.4	1521.1	1100.4	1109.6
16468.6	72.5°	11553.9	3523.0	781.4	758.2	920.1	1003.3	1715.3	1572.0	1197.5	1109.6
9223.7	75°	6565.3	2108.3	688.9	661.1	725.9	873.8	1604.3	1498.0	1165.1	994.0
3684.9	77.5°	2713.9	1086.5	633.4	596.4	601.0	712.0	1336.2	1396.3	1109.6	846.1
1229.8	80°	1012.5	651.9	508.6	476.2	462.3	522.4	952.4	1114.2	947.8	693.5
540.9	82.5°	527.1	406.9	346.8	346.8	314.4	332.9	513.2	739.7	716.6	476.2
217.3	85°	268.2	231.2	198.8	194.2	175.7	157.2	258.9	439.2	411.5	263.5
97.1	87.5°	143.3	129.5	83.2	78.6	64.7	41.6	46.2	87.8	143.3	115.6
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>
6135.3
6777.9
7004.5
6551.4
5756.2
4974.8
4073.2
3435.2
3042.2
2829.5
2640.0
2404.2
2103.7
1655.2
1183.6
786.0
476.2
383.7
508.6
642.7
707.4
545.6
721.3
684.3
624.2
767.5
749.0
901.6
929.3
1026.4
984.8
887.7
799.9
633.4
374.5
217.3
83.2
0.0

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