

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: P477728

Luminaire Tested: **IFLD-S-SA3B-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

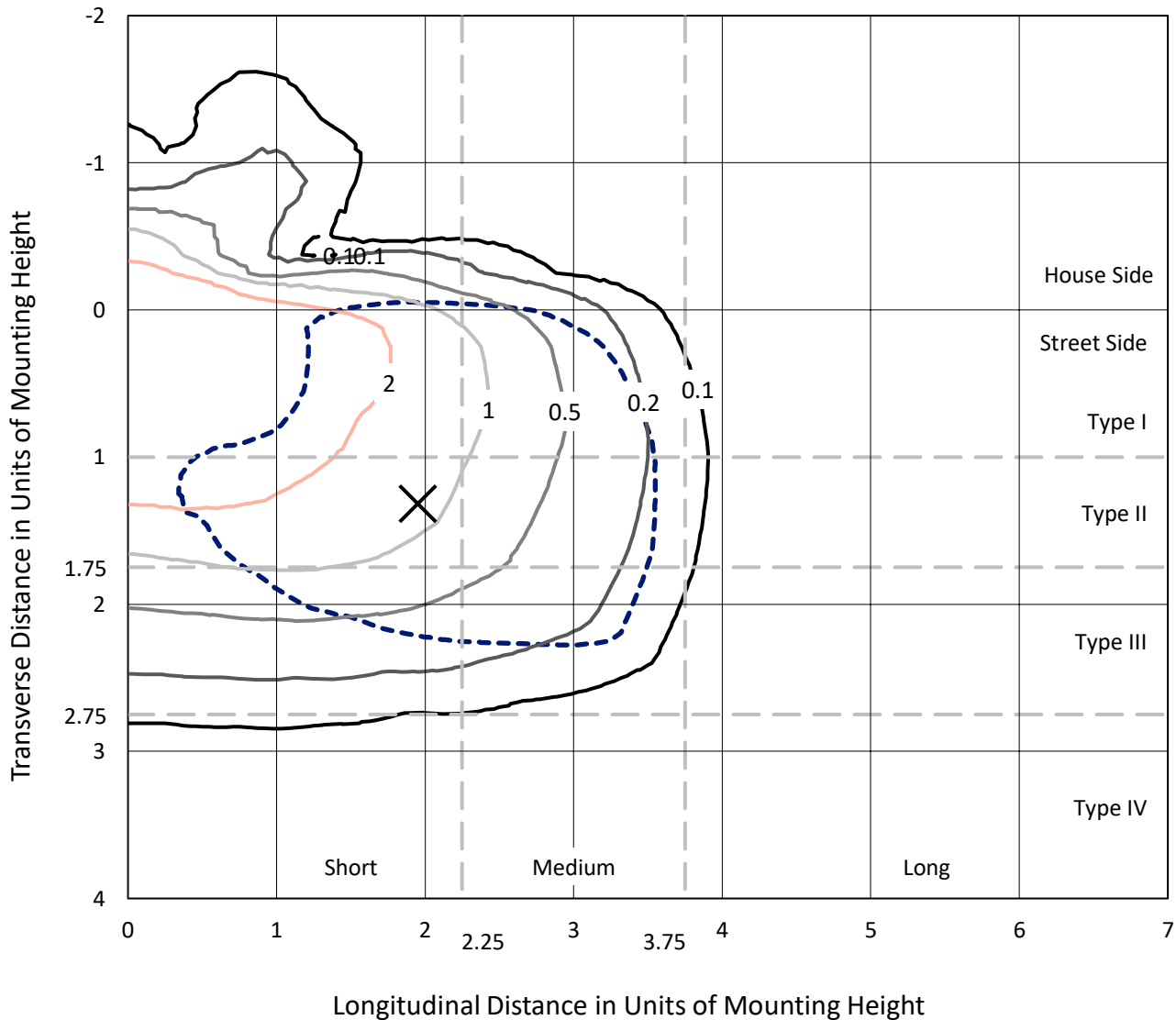
Lumens per Lamp: N/A
Luminaire Lumens: 16485.7 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

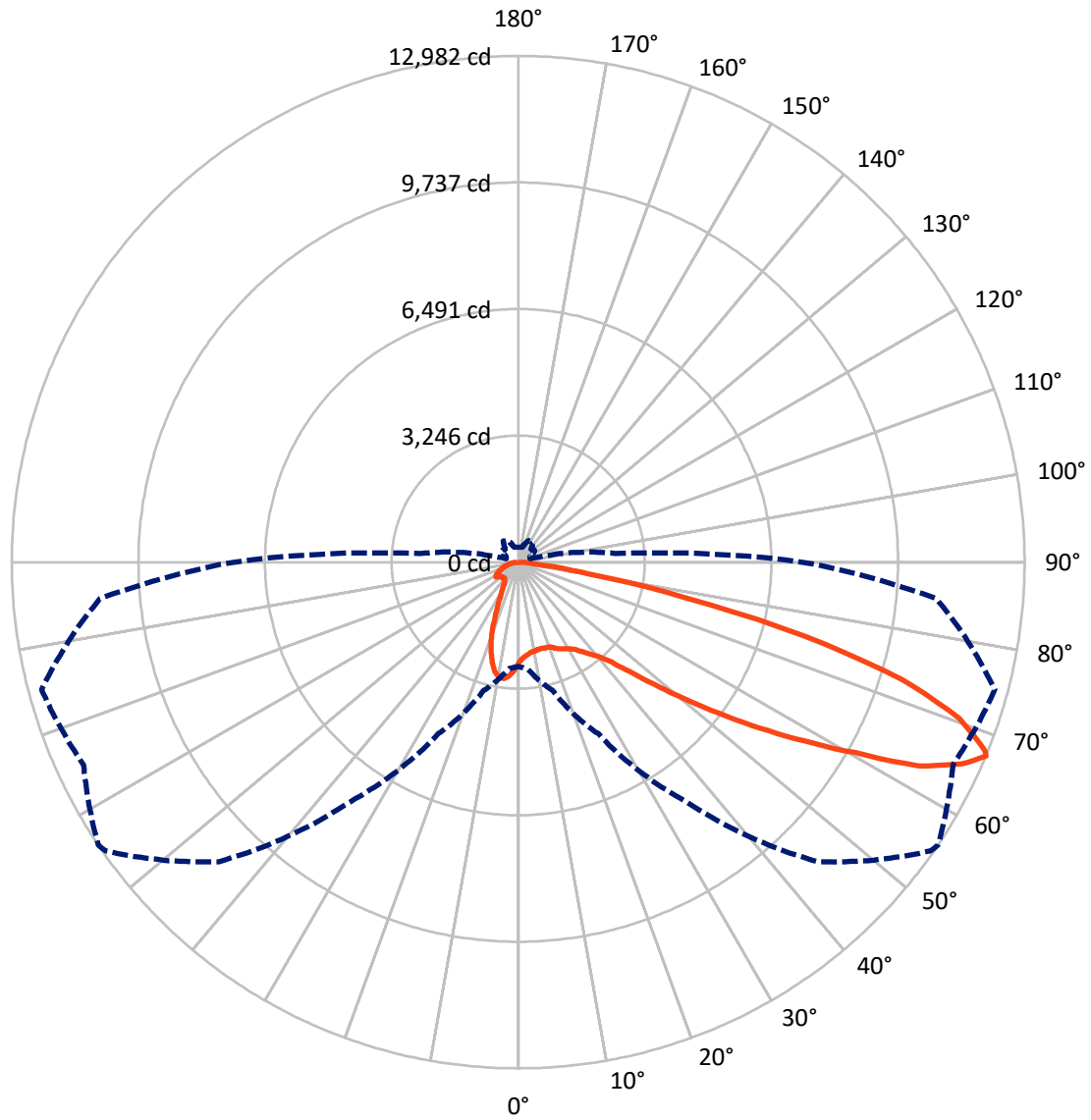
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	2609.8	0.0	2609.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13875.8	0.0	13875.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	16485.7	0.0	16485.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.5
10°-20°	674.2	4.1
20°-30°	1057.3	6.4
30°-40°	1509.3	9.2
40°-50°	2278.0	13.8
50°-60°	3626.1	22.0
60°-70°	4635.7	28.1
70°-80°	2260.2	13.7
80°-90°	197.7	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°	16485.7	100.0
0°-180°	16485.7	100.0

Coefficient of Utilization

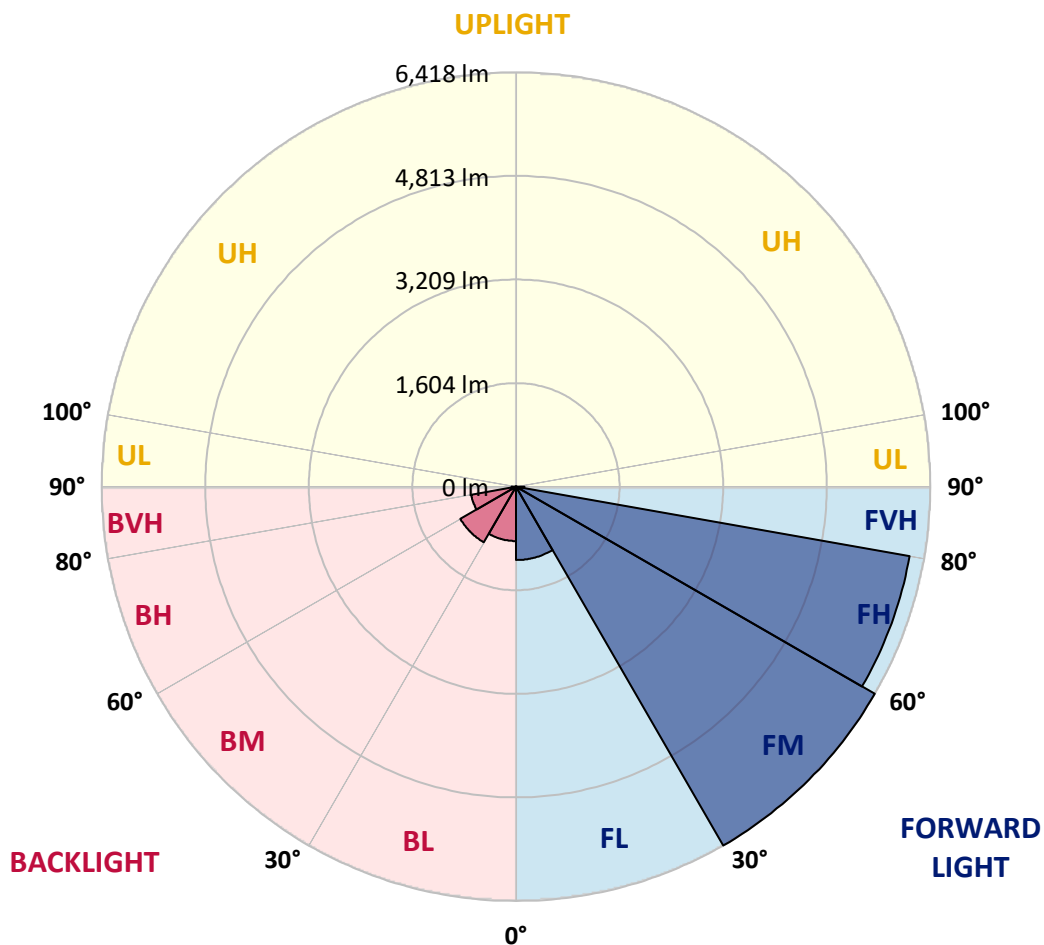


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.0	6.9			
FM (30°-60°)	6417.7	38.9			
FH (60°-80°)	6190.7	37.6			G3/7500
FVH (80°-90°)	131.3	0.8			G2/225
BL (0°-30°)	842.5	5.1	B2/1000		
BM (30°-60°)	995.7	6.0	B1/1000		
BH (60°-80°)	705.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	66.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2356.4	2346.7	2358.3	2346.7	2398.9	2429.8	2439.5	2453.0	2501.3	2547.7
5°	2257.8	2215.2	2261.6	2277.1	2281.0	2333.2	2387.3	2396.9	2422.1	2497.5
7.5°	2093.5	2141.8	2124.4	2170.8	2219.1	2271.3	2360.2	2335.1	2427.9	2499.4
10°	2058.7	2062.5	2081.9	2099.3	2141.8	2209.4	2333.2	2317.7	2412.4	2565.1
12.5°	2093.5	2093.5	2087.7	2074.1	2122.5	2188.2	2286.8	2294.5	2443.3	2584.5
15°	2215.2	2238.4	2176.6	2186.2	2166.9	2188.2	2275.2	2292.6	2454.9	2599.9
17.5°	2512.9	2505.2	2431.7	2329.3	2244.2	2230.7	2290.6	2310.0	2443.3	2644.4
20°	2802.9	2787.4	2659.8	2553.5	2385.4	2306.1	2315.8	2317.7	2462.7	2673.4
22.5°	3125.7	3166.3	3027.1	2810.6	2601.8	2404.7	2366.0	2396.9	2507.1	2688.8
25°	3632.2	3545.2	3425.3	3141.2	2804.8	2557.4	2449.1	2464.6	2549.7	2727.5
27.5°	3997.5	3962.7	3775.2	3545.2	3089.0	2677.2	2493.6	2522.6	2627.0	2725.6
30°	4349.3	4349.3	4235.3	3891.2	3388.6	2878.3	2588.3	2574.8	2590.3	2721.7
32.5°	4761.0	4705.0	4540.7	4312.6	3765.5	3061.9	2663.7	2667.6	2667.6	2793.2
35°	4977.5	5068.4	4958.2	4587.1	4053.5	3367.3	2845.4	2816.4	2795.2	2872.5
37.5°	5294.6	5348.7	5232.7	5014.3	4411.2	3614.8	3005.9	2982.7	2858.9	2934.3
40°	5485.9	5476.3	5472.4	5371.9	4884.7	3906.6	3241.7	3181.8	3015.5	3152.8
42.5°	5594.2	5574.8	5812.6	5750.7	5331.3	4335.8	3537.4	3504.6	3320.9	3541.3
45°	5715.9	5859.0	6054.2	6228.2	5851.3	4938.9	4038.1	3991.7	3827.4	4107.7
47.5°	5822.3	5998.2	6247.5	6433.1	6321.0	5594.2	4656.7	4668.3	4560.0	4848.0
50°	6000.1	6017.5	6355.8	6730.8	6817.8	6199.2	5487.9	5468.5	5420.2	5824.2
52.5°	5946.0	5998.2	6425.4	6904.8	7047.8	6839.0	6380.9	6438.9	6375.1	6883.5
55°	5064.5	5221.1	6382.8	7088.4	7592.9	7562.0	7529.1	7490.5	7486.6	8074.2
57.5°	4664.4	4792.0	5623.2	7291.4	8176.7	8404.8	8617.4	8659.9	8658.0	9367.4
60°	4401.5	4532.9	5315.8	7181.2	8673.5	9508.5	9916.4	9922.2	9910.6	10749.5
62.5°	3887.3	4014.9	4784.2	6578.1	8810.7	10527.2	11435.8	11511.2	10979.6	11940.3
65°	3268.7	3373.1	4051.6	5656.0	8445.4	11174.8	12578.2	12489.3	11880.4	12620.7
67°	2673.4	2743.0	3404.1	4855.8	7490.5	10863.6	12908.7	12982.2	12296.0	12649.7
67.5°	2503.3	2567.1	3191.4	4583.2	7127.1	10627.8	12920.3	12908.7	12303.7	12655.5
70°	1737.8	1764.9	2174.7	3152.8	5250.1	8978.9	11977.0	12004.1	11787.6	11969.3
72.5°	1152.1	1192.7	1453.6	1987.1	3094.8	6533.6	10011.1	10301.1	10163.8	9814.0
75°	742.3	765.5	951.0	1183.0	1523.2	3721.1	7395.7	7589.0	7274.0	6069.7
77.5°	415.6	440.7	574.1	719.1	742.3	1548.4	4154.1	4393.8	3723.0	2578.7
80°	259.0	291.9	433.0	427.2	353.7	568.3	1712.7	1834.4	1488.4	887.3
82.5°	195.2	220.4	334.4	299.6	199.1	253.2	641.8	688.2	545.1	342.1
85°	133.4	168.2	241.6	185.6	104.4	121.8	255.2	274.5	249.4	166.2
87.5°	48.3	71.5	125.6	92.8	46.4	36.7	83.1	92.8	88.9	75.4
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°
2565.1	0°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2588.3	2.5°	2625.0	2652.1	2665.6	2744.9	2777.8	2772.0	2779.7	2791.3	2802.9	2818.3
2621.2	5°	2646.3	2729.4	2773.9	2866.7	2928.5	2901.5	2936.3	2926.6	2913.1	2911.1
2681.1	7.5°	2715.9	2822.2	2955.6	2980.7	3007.8	2940.1	2882.1	2802.9	2783.6	2715.9
2731.4	10°	2839.6	2926.6	3089.0	3098.6	2978.8	2804.8	2675.3	2511.0	2509.1	2410.5
2808.7	12.5°	2957.5	3056.1	3187.6	3131.5	2845.4	2607.6	2396.9	2217.2	2141.8	2091.5
2855.1	15°	3031.0	3193.4	3262.9	3021.3	2611.5	2290.6	2018.1	1824.8	1747.5	1710.7
2913.1	17.5°	3098.6	3324.8	3293.9	2828.0	2323.5	1964.0	1639.2	1471.0	1449.8	1422.7
3005.9	20°	3191.4	3373.1	3183.7	2576.7	1996.8	1542.6	1335.7	1254.5	1273.9	1285.5
3015.5	22.5°	3278.4	3398.3	3044.5	2302.2	1577.3	1221.7	1119.2	1136.6	1165.6	1204.3
3038.7	25°	3317.1	3438.8	2857.0	1923.4	1200.4	1028.4	1005.2	1034.2	1082.5	1084.4
3071.6	27.5°	3342.2	3409.9	2630.8	1554.2	949.1	898.9	933.7	954.9	960.7	983.9
3141.2	30°	3386.7	3349.9	2344.8	1111.5	796.4	798.3	842.8	842.8	842.8	860.2
3210.8	32.5°	3464.0	3309.3	2010.3	811.9	686.2	748.1	736.5	732.6	724.9	703.6
3299.7	35°	3512.3	3199.2	1587.0	601.2	616.6	686.2	682.4	622.4	521.9	471.7
3525.8	37.5°	3612.8	3143.1	1167.5	463.9	576.0	655.3	634.0	489.1	378.9	330.5
3806.1	40°	3829.3	3106.4	808.0	405.9	549.0	639.8	566.4	417.5	290.0	204.9
4239.1	42.5°	4094.1	3108.3	549.0	382.7	550.9	672.7	545.1	357.6	204.9	164.3
4817.1	45°	4449.8	3079.3	376.9	382.7	585.7	726.8	558.6	324.7	199.1	208.8
5542.0	47.5°	4832.6	3104.4	280.3	347.9	591.5	728.7	510.3	318.9	191.4	241.6
6330.7	50°	5279.1	3129.6	232.0	320.9	593.4	705.6	469.7	311.2	199.1	255.2
7235.3	52.5°	5739.1	3208.8	197.2	303.5	616.6	695.9	469.7	322.8	199.1	222.3
8387.4	55°	6425.4	3411.8	284.2	378.9	701.7	759.7	578.0	452.3	278.4	286.1
9491.1	57.5°	7183.1	3620.6	317.0	398.2	721.0	684.3	622.4	498.7	293.8	295.8
10349.4	60°	7681.8	3628.3	315.1	388.5	674.6	591.5	608.9	525.8	299.6	253.2
10881.0	62.5°	7880.9	3392.5	328.6	388.5	628.2	552.8	624.4	566.4	309.3	317.0
11031.8	65°	7654.8	2905.3	317.0	347.9	552.8	494.9	628.2	574.1	338.3	318.9
10761.1	67°	7301.0	2503.3	322.8	330.5	514.2	469.7	661.1	603.1	392.4	382.7
10620.0	67.5°	7200.5	2396.9	320.9	320.9	500.7	462.0	668.8	603.1	400.1	396.3
9373.2	70°	6346.1	1942.7	328.6	317.0	442.7	438.8	711.4	636.0	460.1	463.9
6885.4	72.5°	4830.6	1473.0	326.7	317.0	384.7	419.5	717.2	657.2	500.7	463.9
3856.4	75°	2744.9	881.5	288.0	276.4	303.5	365.3	670.8	626.3	487.1	415.6
1540.6	77.5°	1134.7	454.3	264.8	249.4	251.3	297.7	558.6	583.8	463.9	353.7
514.2	80°	423.3	272.6	212.6	199.1	193.3	218.4	398.2	465.9	396.3	290.0
226.2	82.5°	220.4	170.1	145.0	145.0	131.4	139.2	214.6	309.3	299.6	199.1
90.9	85°	112.1	96.7	83.1	81.2	73.5	65.7	108.2	183.6	172.0	110.2
40.6	87.5°	59.9	54.1	34.8	32.9	27.1	17.4	19.3	36.7	59.9	48.3
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>
2565.1
2833.8
2928.5
2739.1
2406.6
2079.9
1703.0
1436.2
1271.9
1183.0
1103.8
1005.2
879.5
692.0
494.9
328.6
199.1
160.4
212.6
268.7
295.8
228.1
301.6
286.1
261.0
320.9
313.1
376.9
388.5
429.1
411.7
371.1
334.4
264.8
156.6
90.9
34.8
0.0

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