

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: P477417

Luminaire Tested: **IFLD-S-SA3C-750-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

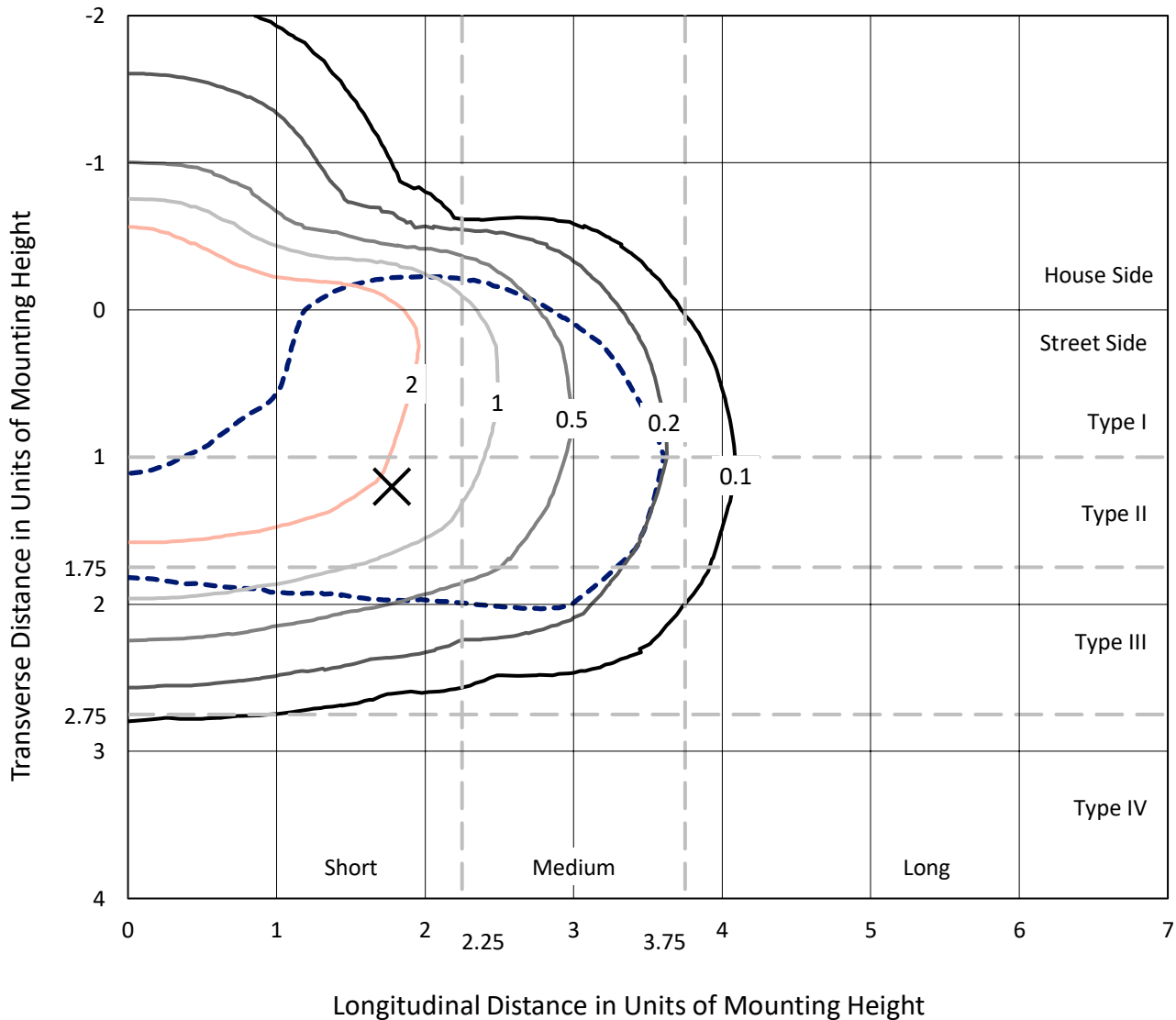
Lumens per Lamp: N/A
Luminaire Lumens: 22068.3 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

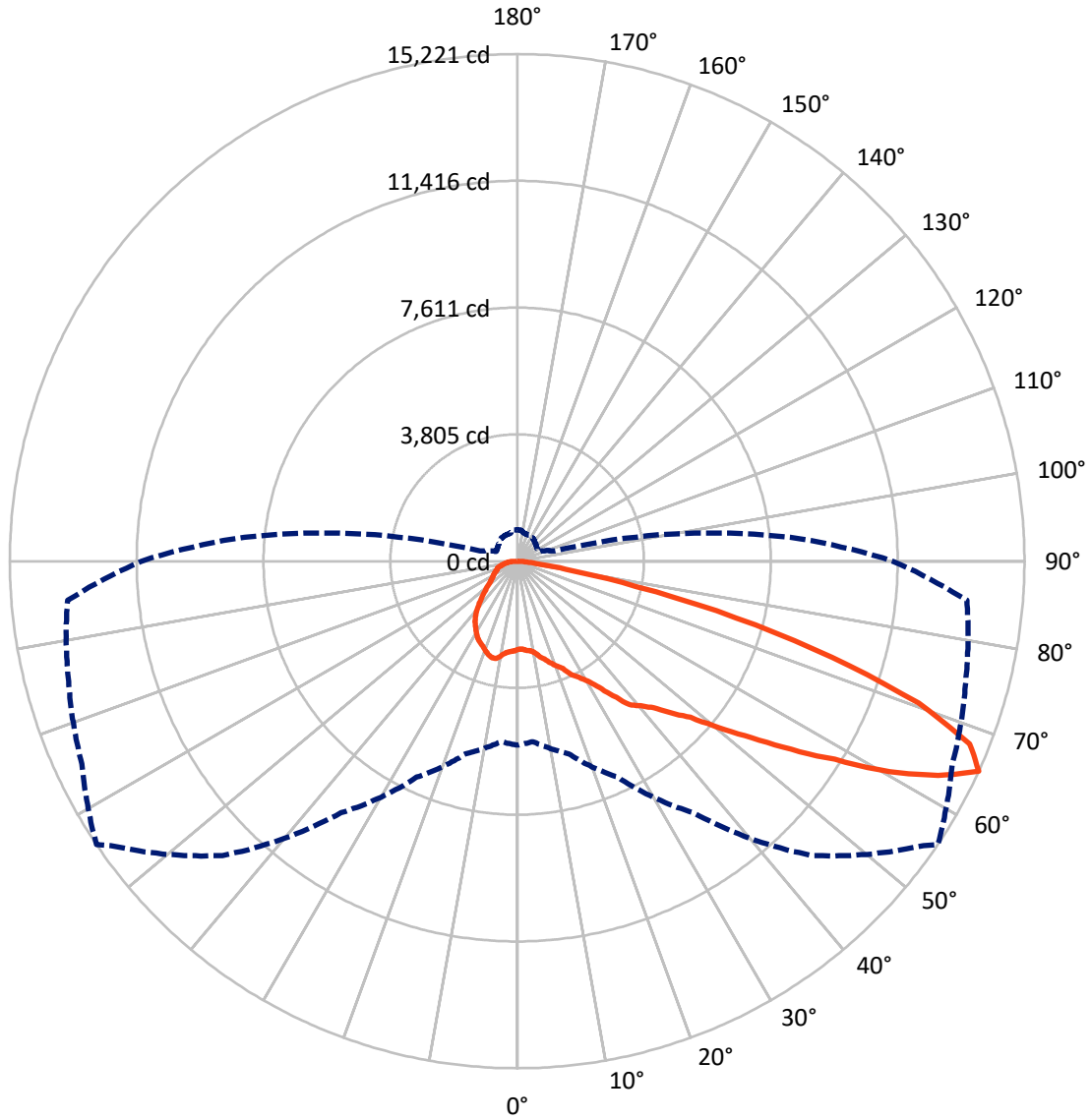
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4949.2	0.0	4949.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17119.1	0.0	17119.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	22068.3	0.0	22068.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	1.2
10°-20°	852.3	3.9
20°-30°	1517.6	6.9
30°-40°	2272.6	10.3
40°-50°	3367.2	15.3
50°-60°	5188.3	23.5
60°-70°	5873.9	26.6
70°-80°	2437.7	11.0
80°-90°	296.2	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°	22068.3	100.0
0°-180°	22068.3	100.0

Coefficient of Utilization

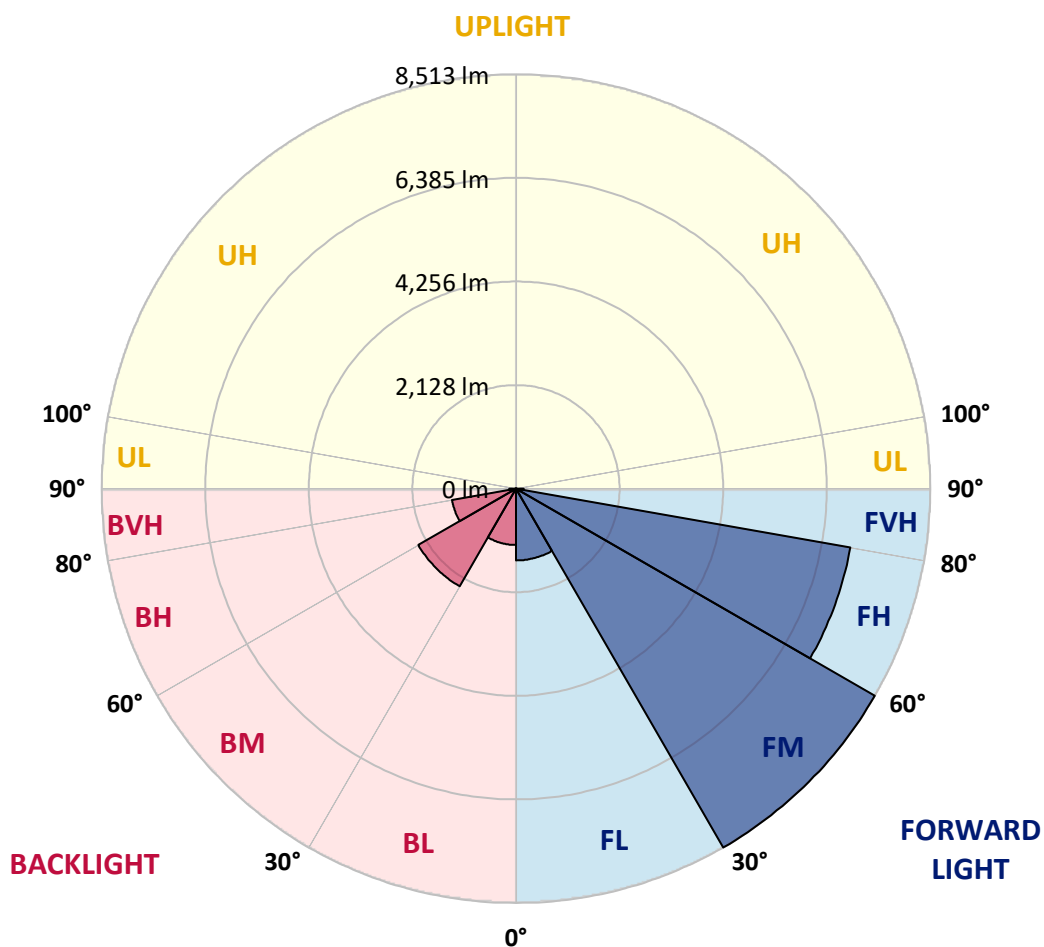


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.8	6.7			
FM (30°-60°)	8513.0	38.6			
FH (60°-80°)	6975.1	31.6			G3/7500
FVH (80°-90°)	156.2	0.7			G2/225
BL (0°-30°)	1157.7	5.2	B3/2500		
BM (30°-60°)	2315.2	10.5	B2/2500		
BH (60°-80°)	1336.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	139.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8
2.5°	2579.5	2593.4	2584.2	2611.9	2635.0	2635.0	2653.4	2639.6	2658.1	2683.5
5°	2665.0	2609.6	2639.6	2653.4	2646.5	2658.1	2639.6	2685.8	2655.8	2704.3
7.5°	2685.8	2706.6	2732.0	2708.9	2729.7	2718.1	2720.4	2713.5	2697.3	2736.6
10°	2838.2	2808.2	2865.9	2831.3	2826.6	2822.0	2812.8	2778.2	2817.4	2819.7
12.5°	3013.7	2986.0	2983.7	2956.0	2992.9	2926.0	2939.8	2921.3	2928.3	2937.5
15°	3140.7	3129.2	3182.3	3150.0	3101.5	3071.4	3103.8	3053.0	3078.4	3073.8
17.5°	3392.4	3390.1	3350.9	3297.8	3270.0	3226.2	3219.2	3198.5	3216.9	3207.7
20°	3568.0	3593.4	3600.3	3537.9	3431.7	3383.2	3371.7	3355.5	3376.3	3369.3
22.5°	3835.8	3796.6	3826.6	3718.1	3678.8	3563.3	3521.8	3498.7	3598.0	3572.6
25°	4006.7	4048.3	4018.3	3981.3	3893.6	3750.4	3720.4	3771.2	3810.4	3782.7
27.5°	4392.4	4350.8	4323.1	4212.3	4154.5	4004.4	3969.8	3951.3	3960.5	3976.7
30°	4685.7	4708.8	4646.4	4567.9	4422.4	4270.0	4189.2	4173.0	4140.7	4113.0
32.5°	5103.7	5069.0	5032.1	4981.3	4856.6	4655.7	4577.1	4517.1	4420.1	4290.8
35°	5304.6	5403.9	5376.2	5239.9	5145.2	5069.0	5045.9	4953.6	4872.7	4669.5
37.5°	5639.4	5681.0	5641.8	5597.9	5554.0	5473.2	5445.5	5470.9	5311.5	4976.7
40°	5856.5	5944.3	6025.1	5902.7	5893.5	5909.6	5738.7	5708.7	5380.8	5205.3
42.5°	6299.9	6336.9	6353.0	6348.4	6401.5	6401.5	6075.9	6011.2	5778.0	5634.8
45°	6886.5	6916.5	6974.2	7015.8	6955.8	6985.8	6521.6	6496.2	6288.4	6260.7
47.5°	7394.6	7466.1	7595.5	7717.9	7796.4	7694.8	7186.7	7006.6	6953.5	7119.7
50°	7837.9	7752.5	8055.0	8179.7	8523.8	8692.4	7921.1	7849.5	7764.0	8082.7
52.5°	7881.8	7997.3	8424.5	8673.9	9382.9	9694.7	8821.7	8791.7	8687.8	9055.0
55°	8195.9	8182.0	8611.6	9152.0	9994.9	10519.1	9994.9	9976.4	9750.1	10098.8
57.5°	8142.8	8283.7	8623.1	9378.3	10546.8	11403.6	11355.1	11228.1	10911.7	11195.7
60°	7962.7	7999.6	8413.0	9371.4	10867.8	12311.2	12823.8	12849.2	12202.6	12428.9
62.5°	6941.9	7027.4	7551.6	8634.7	10639.2	12937.0	14258.0	14167.9	13650.6	13391.9
65°	5521.7	5436.2	5981.2	7152.1	9216.6	12493.6	14886.1	15221.0	14408.1	13934.6
67.5°	3385.5	3364.7	3889.0	4921.2	6895.7	10632.3	14385.0	14645.9	14197.9	13819.2
70°	1743.6	1690.4	2018.4	2745.8	4334.7	7801.0	12519.0	12775.3	13202.6	12394.3
72.5°	812.9	801.3	976.9	1351.0	2207.7	4586.4	9694.7	9879.4	10780.1	10449.8
75°	478.0	485.0	584.3	706.7	1076.2	2161.6	6433.9	6791.8	7768.7	7530.8
77.5°	357.9	357.9	415.7	491.9	628.1	836.0	3175.4	3648.8	4542.5	4085.2
80°	263.3	267.9	318.7	369.5	436.5	431.8	1260.9	1478.0	2083.0	1780.5
82.5°	205.5	212.5	247.1	274.8	307.1	261.0	517.3	556.6	856.8	681.3
85°	143.2	147.8	194.0	187.1	187.1	145.5	214.8	226.3	339.5	323.3
87.5°	34.6	39.3	94.7	103.9	78.5	43.9	67.0	76.2	122.4	140.9
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°
2648.8	0°	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8	2648.8
2695.0	2.5°	2660.4	2669.6	2708.9	2688.1	2699.6	2651.1	2690.4	2658.1	2685.8	2671.9
2715.8	5°	2734.3	2713.5	2736.6	2720.4	2720.4	2738.9	2766.6	2745.8	2787.4	2768.9
2732.0	7.5°	2764.3	2766.6	2780.5	2782.8	2771.2	2829.0	2831.3	2824.3	2863.6	2854.4
2842.8	10°	2838.2	2840.5	2865.9	2879.8	2868.2	2889.0	2865.9	2847.4	2845.1	2835.9
2930.6	12.5°	2956.0	2979.1	2974.4	2986.0	2988.3	2900.5	2847.4	2757.4	2745.8	2757.4
3059.9	15°	3064.5	3055.3	3059.9	3083.0	2986.0	2845.1	2750.4	2674.2	2678.9	2681.2
3228.5	17.5°	3193.8	3200.8	3207.7	3101.5	2923.6	2757.4	2674.2	2674.2	2651.1	2660.4
3346.3	20°	3341.6	3313.9	3253.9	3103.8	2815.1	2655.8	2630.4	2630.4	2602.6	2584.2
3473.3	22.5°	3457.1	3401.7	3311.6	3032.2	2718.1	2616.5	2554.1	2510.3	2477.9	2441.0
3614.1	25°	3531.0	3501.0	3325.5	2958.3	2646.5	2512.6	2420.2	2353.2	2311.7	2263.2
3725.0	27.5°	3644.2	3586.4	3364.7	2872.8	2568.0	2408.7	2265.5	2161.6	2083.0	2032.2
3893.6	30°	3796.6	3713.4	3337.0	2750.4	2447.9	2228.5	2059.9	1926.0	1835.9	1794.4
4052.9	32.5°	3921.3	3812.7	3313.9	2639.6	2314.0	2046.1	1822.1	1685.8	1635.0	1581.9
4320.8	35°	4159.1	3944.4	3297.8	2577.2	2193.9	1863.6	1628.1	1510.3	1445.7	1367.1
4480.1	37.5°	4341.6	4173.0	3258.5	2447.9	2039.2	1685.8	1480.3	1374.1	1277.1	1193.9
4849.6	40°	4627.9	4491.7	3260.8	2265.5	1856.7	1533.4	1364.8	1254.0	1131.6	1060.0
5397.0	42.5°	5166.0	4805.8	3274.7	2120.0	1651.2	1408.7	1260.9	1129.3	1006.9	946.8
6020.5	45°	5826.5	5237.6	3189.2	1988.4	1441.0	1290.9	1136.2	1004.6	926.1	882.2
6868.0	47.5°	6586.3	5660.2	3073.8	1741.3	1265.5	1166.2	1020.7	944.5	886.8	861.4
7960.3	50°	7436.1	6265.3	3041.4	1514.9	1129.3	1060.0	965.3	907.6	868.3	838.3
9191.2	52.5°	8530.8	6969.6	2976.8	1281.7	1011.5	974.5	944.5	905.3	870.6	845.2
10339.0	55°	9576.9	7750.2	2907.5	1090.0	928.4	933.0	949.1	914.5	884.5	845.2
11625.3	57.5°	10754.7	8546.9	2651.1	949.1	866.0	912.2	944.5	905.3	875.2	845.2
12941.6	60°	11482.1	8994.9	2150.0	826.7	810.6	872.9	916.8	875.2	842.9	854.5
13546.7	62.5°	11777.7	8759.4	1621.2	750.5	771.3	819.8	872.9	856.8	833.7	877.6
13539.7	65°	11274.3	8216.7	1159.3	685.9	718.2	766.7	833.7	852.2	859.1	944.5
12435.9	67.5°	10031.8	7154.4	852.2	632.8	662.8	734.4	861.4	891.4	886.8	993.0
10436.0	70°	8027.3	5595.6	665.1	588.9	642.0	759.8	900.6	900.6	868.3	993.0
7960.3	72.5°	5840.4	3944.4	572.7	538.1	588.9	697.4	896.0	893.7	852.2	907.6
5069.0	75°	3535.6	2295.5	505.7	487.3	505.7	598.1	856.8	842.9	785.2	780.6
2438.7	77.5°	1762.0	1154.7	413.4	431.8	441.1	501.1	752.8	773.6	695.1	676.6
963.0	80°	743.6	503.4	344.1	371.8	371.8	422.6	625.8	639.7	577.3	542.7
381.0	82.5°	339.5	288.7	293.3	323.3	302.5	327.9	496.5	512.7	468.8	411.1
161.7	85°	143.2	164.0	224.0	254.0	224.0	212.5	341.8	360.3	304.8	254.0
69.3	87.5°	64.7	90.1	140.9	184.7	113.2	99.3	182.4	189.4	152.4	113.2
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>
2648.8
2646.5
2743.5
2840.5
2835.9
2762.0
2713.5
2662.7
2556.5
2420.2
2272.4
2055.3
1817.5
1579.6
1360.2
1196.2
1066.9
951.5
891.4
856.8
842.9
842.9
842.9
842.9
845.2
866.0
944.5
1000.0
972.2
875.2
771.3
665.1
531.2
401.8
256.3
106.2
0.0

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