

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: P477725

Luminaire Tested: **IFLD-S-SA2D-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

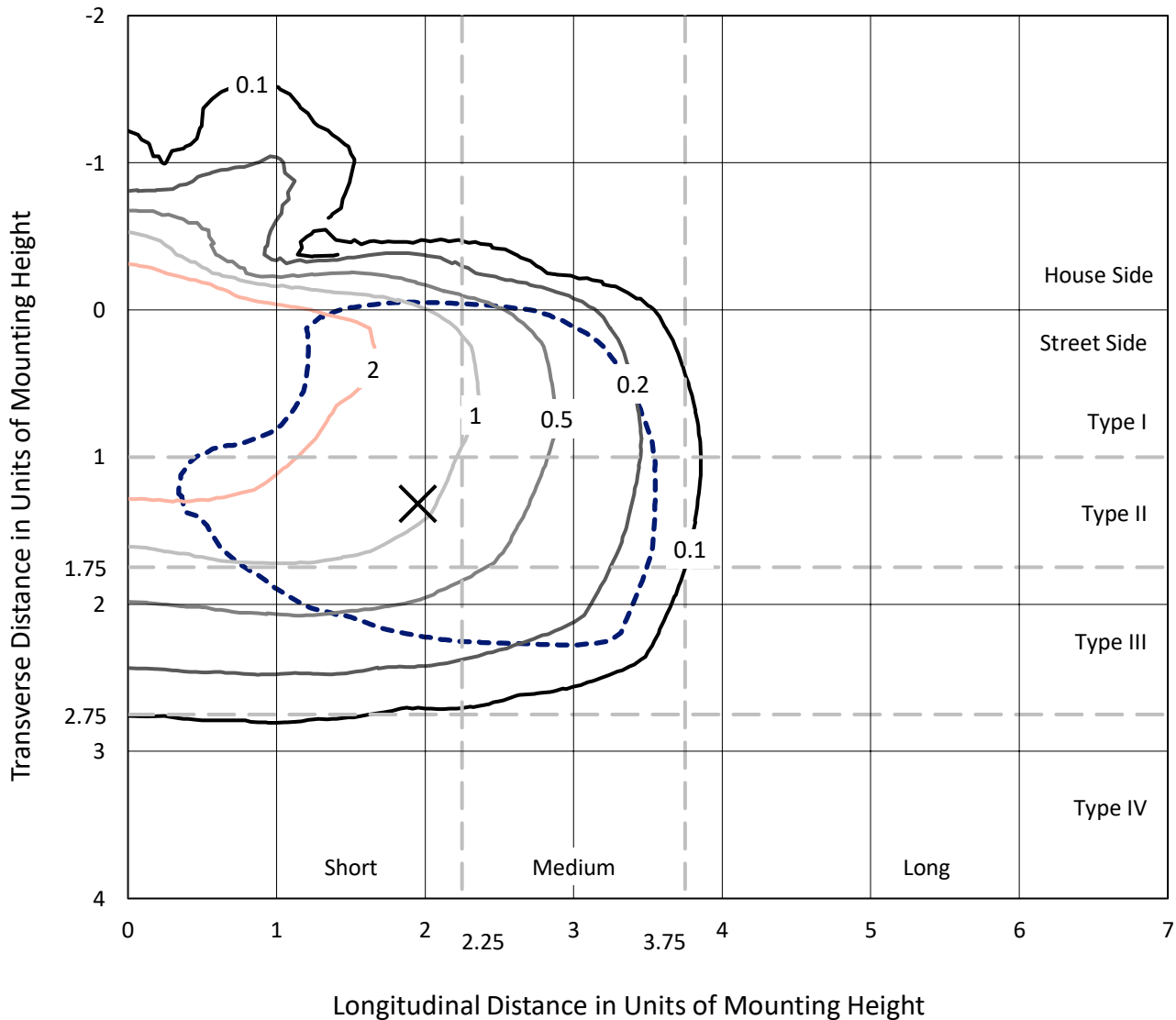
Lumens per Lamp: N/A
Luminaire Lumens: 15152.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

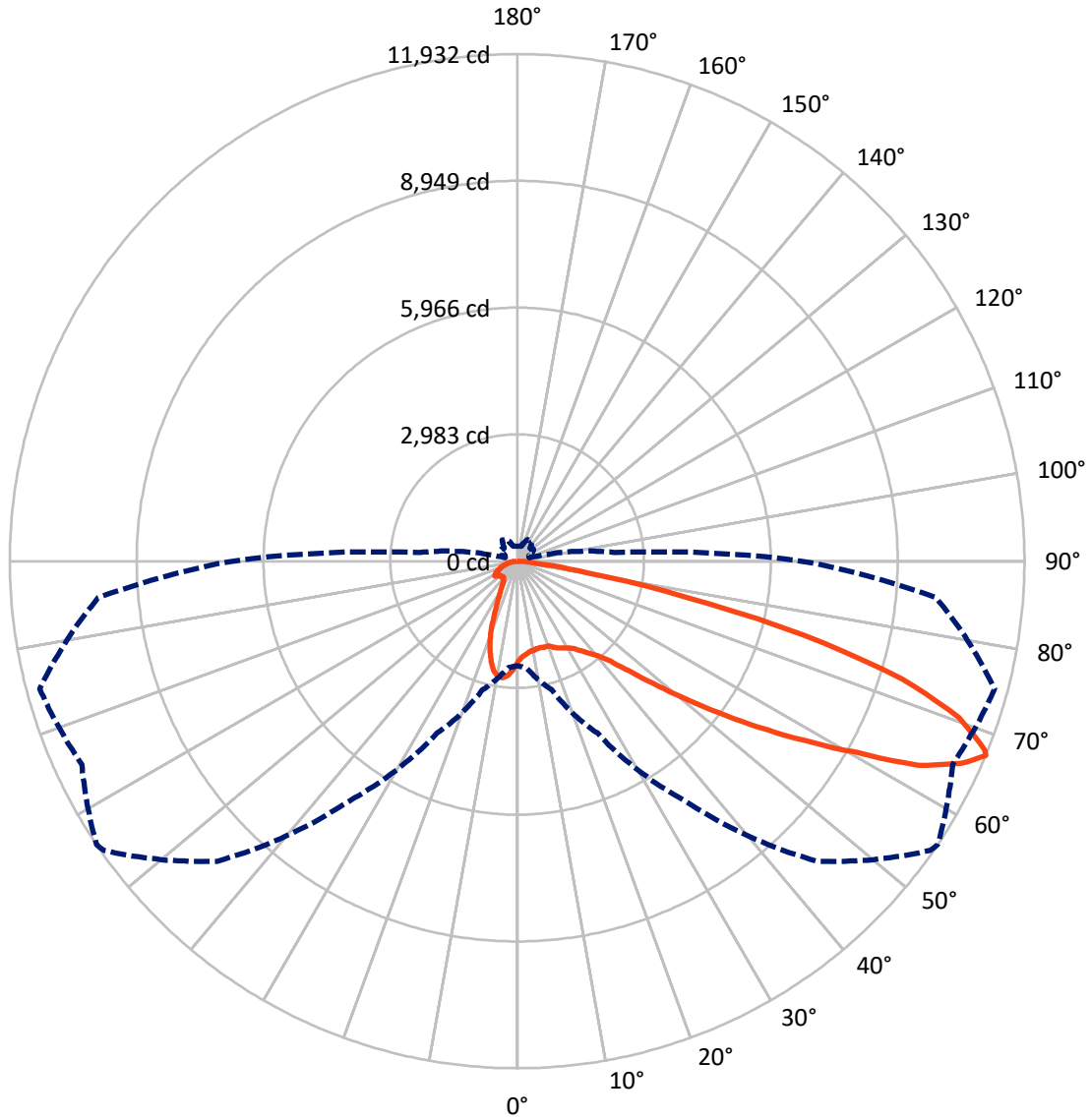
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2398.8	0.0	2398.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12753.4	0.0	12753.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	15152.2	0.0	15152.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	1.5
10°-20°	619.6	4.1
20°-30°	971.8	6.4
30°-40°	1387.2	9.2
40°-50°	2093.7	13.8
50°-60°	3332.8	22.0
60°-70°	4260.8	28.1
70°-80°	2077.4	13.7
80°-90°	181.7	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°	15152.2	100.0
0°-180°	15152.2	100.0

Coefficient of Utilization

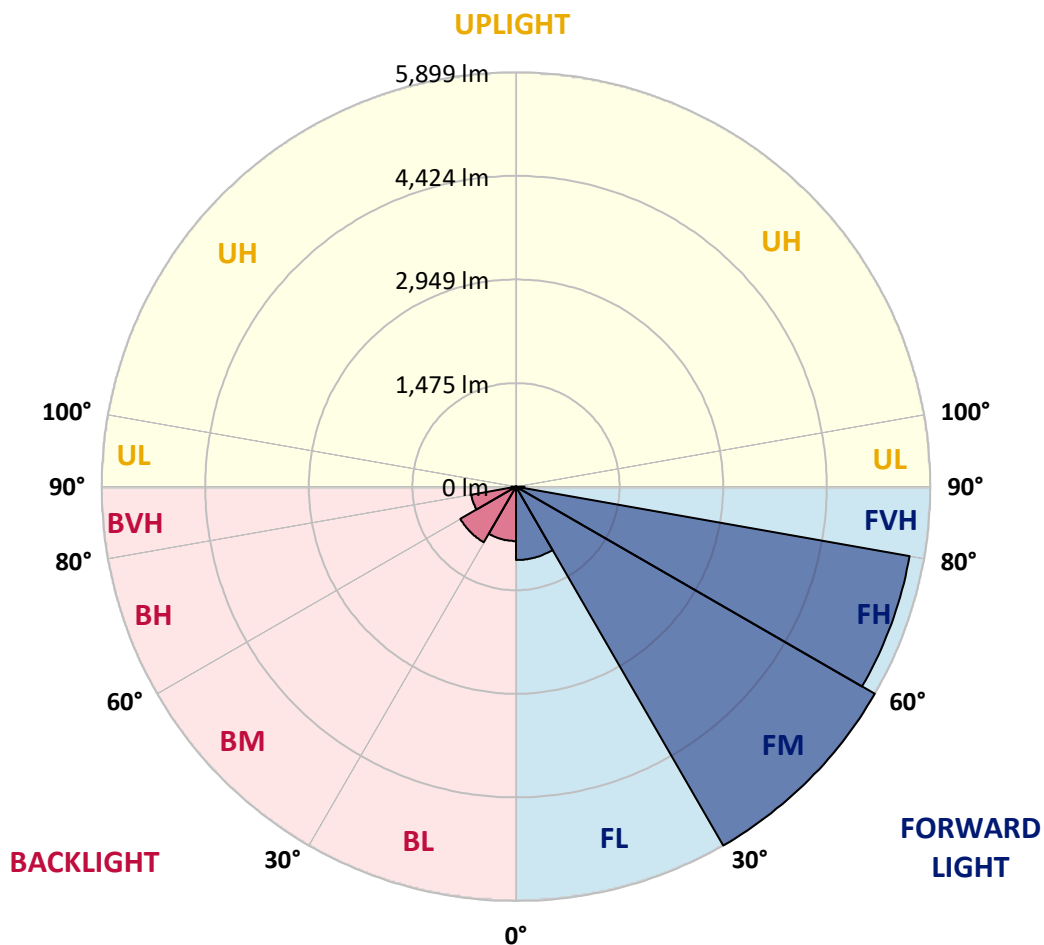


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.2	6.9			
FM (30°-60°)	5898.6	38.9			
FH (60°-80°)	5690.0	37.6			G3/7500
FVH (80°-90°)	120.7	0.8			G2/225
BL (0°-30°)	774.4	5.1	B2/1000		
BM (30°-60°)	915.1	6.0	B1/1000		
BH (60°-80°)	648.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	61.0	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°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2.5°	2165.8	2156.9	2167.5	2156.9	2204.8	2233.3	2242.2	2254.6	2299.0	2341.7
5°	2075.1	2036.1	2078.7	2092.9	2096.5	2144.4	2194.2	2203.1	2226.2	2295.5
7.5°	1924.1	1968.5	1952.6	1995.2	2039.6	2087.6	2169.3	2146.2	2231.5	2297.2
10°	1892.2	1895.7	1913.5	1929.5	1968.5	2030.7	2144.4	2130.2	2217.3	2357.6
12.5°	1924.1	1924.1	1918.8	1906.4	1950.8	2011.2	2101.8	2108.9	2245.7	2375.4
15°	2036.1	2057.4	2000.5	2009.4	1991.6	2011.2	2091.1	2107.1	2256.4	2389.6
17.5°	2309.7	2302.6	2235.0	2140.9	2062.7	2050.3	2105.4	2123.1	2245.7	2430.5
20°	2576.2	2562.0	2444.7	2347.0	2192.4	2119.6	2128.4	2130.2	2263.5	2457.1
22.5°	2872.9	2910.2	2782.3	2583.3	2391.4	2210.2	2174.6	2203.1	2304.3	2471.3
25°	3338.4	3258.4	3148.3	2887.1	2577.9	2350.5	2251.0	2265.3	2343.4	2506.9
27.5°	3674.2	3642.2	3469.8	3258.4	2839.1	2460.7	2291.9	2318.6	2414.5	2505.1
30°	3997.5	3997.5	3892.7	3576.4	3114.5	2645.5	2379.0	2366.5	2380.7	2501.6
32.5°	4375.9	4324.4	4173.4	3963.7	3461.0	2814.2	2448.3	2451.8	2451.8	2567.3
35°	4574.9	4658.4	4557.2	4216.0	3725.7	3095.0	2615.3	2588.6	2569.1	2640.1
37.5°	4866.3	4916.0	4809.4	4608.7	4054.4	3322.4	2762.7	2741.4	2627.7	2697.0
40°	5042.2	5033.3	5029.8	4937.4	4489.6	3590.6	2979.5	2924.4	2771.6	2897.7
42.5°	5141.7	5123.9	5342.4	5285.6	4900.1	3985.1	3251.3	3221.1	3052.3	3254.9
45°	5253.6	5385.1	5564.5	5724.4	5378.0	4539.4	3711.5	3668.8	3517.8	3775.4
47.5°	5351.3	5513.0	5742.2	5912.8	5809.7	5141.7	4280.0	4290.7	4191.2	4455.9
50°	5514.8	5530.8	5841.7	6186.4	6266.3	5697.8	5044.0	5026.2	4981.8	5353.1
52.5°	5465.0	5513.0	5905.6	6346.3	6477.7	6285.9	5864.8	5918.1	5859.5	6326.7
55°	4654.9	4798.8	5866.6	6515.0	6978.8	6950.3	6920.1	6884.6	6881.0	7421.1
57.5°	4287.1	4404.4	5168.3	6701.6	7515.3	7725.0	7920.4	7959.5	7957.7	8609.7
60°	4045.5	4166.3	4885.8	6600.3	7971.9	8739.4	9114.3	9119.6	9109.0	9880.1
62.5°	3572.9	3690.1	4397.3	6046.0	8098.1	9675.7	10510.8	10580.1	10091.5	10974.5
65°	3004.3	3100.3	3723.9	5198.5	7762.3	10270.9	11560.8	11479.1	10919.4	11599.9
67°	2457.1	2521.1	3128.7	4463.0	6884.6	9984.9	11864.6	11932.1	11301.4	11626.5
67.5°	2300.8	2359.4	2933.3	4212.5	6550.6	9768.1	11875.3	11864.6	11308.5	11631.9
70°	1597.2	1622.1	1998.8	2897.7	4825.4	8252.6	11008.2	11033.1	10834.1	11001.1
72.5°	1058.9	1096.2	1336.1	1826.4	2844.4	6005.1	9201.4	9467.9	9341.7	9020.1
75°	682.2	703.6	874.1	1087.3	1400.0	3420.1	6797.5	6975.2	6685.6	5578.7
77.5°	382.0	405.1	527.7	660.9	682.2	1423.1	3818.1	4038.4	3421.9	2370.1
80°	238.1	268.3	398.0	392.6	325.1	522.3	1574.1	1686.1	1368.0	815.5
82.5°	179.4	202.5	307.4	275.4	183.0	232.7	589.9	632.5	501.0	314.5
85°	122.6	154.6	222.1	170.6	95.9	111.9	234.5	252.3	229.2	152.8
87.5°	44.4	65.7	115.5	85.3	42.6	33.8	76.4	85.3	81.7	69.3
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°
2357.6	0°	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6	2357.6
2379.0	2.5°	2412.7	2437.6	2450.0	2522.9	2553.1	2547.7	2554.9	2565.5	2576.2	2590.4
2409.2	5°	2432.3	2508.7	2549.5	2634.8	2691.7	2666.8	2698.8	2689.9	2677.4	2675.7
2464.2	7.5°	2496.2	2593.9	2716.5	2739.6	2764.5	2702.3	2649.0	2576.2	2558.4	2496.2
2510.4	10°	2609.9	2689.9	2839.1	2848.0	2737.8	2577.9	2458.9	2307.9	2306.1	2215.5
2581.5	12.5°	2718.3	2808.9	2929.7	2878.2	2615.3	2396.7	2203.1	2037.8	1968.5	1922.4
2624.1	15°	2785.8	2935.1	2999.0	2776.9	2400.3	2105.4	1854.8	1677.2	1606.1	1572.4
2677.4	17.5°	2848.0	3055.9	3027.4	2599.3	2135.6	1805.1	1506.6	1352.0	1332.5	1307.6
2762.7	20°	2933.3	3100.3	2926.2	2368.3	1835.3	1417.8	1227.7	1153.1	1170.8	1181.5
2771.6	22.5°	3013.2	3123.4	2798.3	2116.0	1449.8	1122.9	1028.7	1044.7	1071.3	1106.9
2792.9	25°	3048.8	3160.7	2625.9	1767.8	1103.3	945.2	923.9	950.5	994.9	996.7
2823.1	27.5°	3071.9	3134.0	2418.0	1428.4	872.3	826.2	858.1	877.7	883.0	904.3
2887.1	30°	3112.7	3079.0	2155.1	1021.6	732.0	733.8	774.6	774.6	774.6	790.6
2951.0	32.5°	3183.8	3041.7	1847.7	746.2	630.7	687.6	676.9	673.4	666.3	646.7
3032.8	35°	3228.2	2940.4	1458.6	552.5	566.8	630.7	627.2	572.1	479.7	433.5
3240.6	37.5°	3320.6	2888.9	1073.1	426.4	529.4	602.3	582.7	449.5	348.2	303.8
3498.3	40°	3519.6	2855.1	742.6	373.1	504.6	588.1	520.6	383.8	266.5	188.3
3896.2	42.5°	3763.0	2856.9	504.6	351.8	506.4	618.3	501.0	328.7	188.3	151.0
4427.5	45°	4089.9	2830.2	346.5	351.8	538.3	668.0	513.5	298.5	183.0	191.9
5093.7	47.5°	4441.7	2853.3	257.6	319.8	543.7	669.8	469.0	293.2	175.9	222.1
5818.6	50°	4852.1	2876.4	213.2	294.9	545.4	648.5	431.7	286.0	183.0	234.5
6650.1	52.5°	5274.9	2949.3	181.2	278.9	566.8	639.6	431.7	296.7	183.0	204.3
7709.0	55°	5905.6	3135.8	261.2	348.2	644.9	698.2	531.2	415.7	255.8	262.9
8723.4	57.5°	6602.1	3327.7	291.4	366.0	662.7	628.9	572.1	458.4	270.1	271.8
9512.3	60°	7060.5	3334.8	289.6	357.1	620.1	543.7	559.7	483.3	275.4	232.7
10000.9	62.5°	7243.5	3118.1	302.0	357.1	577.4	508.1	573.9	520.6	284.3	291.4
10139.5	65°	7035.6	2670.3	291.4	319.8	508.1	454.8	577.4	527.7	310.9	293.2
9890.7	67°	6710.5	2300.8	296.7	303.8	472.6	431.7	607.6	554.3	360.7	351.8
9761.0	67.5°	6618.1	2203.1	294.9	294.9	460.2	424.6	614.7	554.3	367.8	364.2
8615.1	70°	5832.8	1785.6	302.0	291.4	406.9	403.3	653.8	584.5	422.8	426.4
6328.5	72.5°	4439.9	1353.8	300.3	291.4	353.6	385.5	659.1	604.1	460.2	426.4
3544.5	75°	2522.9	810.2	264.7	254.1	278.9	335.8	616.5	575.6	447.7	382.0
1416.0	77.5°	1042.9	417.5	243.4	229.2	231.0	273.6	513.5	536.6	426.4	325.1
472.6	80°	389.1	250.5	195.4	183.0	177.7	200.8	366.0	428.2	364.2	266.5
207.9	82.5°	202.5	156.3	133.3	133.3	120.8	127.9	197.2	284.3	275.4	183.0
83.5	85°	103.0	88.8	76.4	74.6	67.5	60.4	99.5	168.8	158.1	101.3
37.3	87.5°	55.1	49.7	32.0	30.2	24.9	16.0	17.8	33.8	55.1	44.4
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>
2357.6
2604.6
2691.7
2517.5
2212.0
1911.7
1565.2
1320.1
1169.0
1087.3
1014.5
923.9
808.4
636.0
454.8
302.0
183.0
147.5
195.4
247.0
271.8
209.6
277.2
262.9
239.9
294.9
287.8
346.5
357.1
394.4
378.4
341.1
307.4
243.4
143.9
83.5
32.0
0.0

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