

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: P477518

Luminaire Tested: **IFLD-L-SA7A-827-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477518
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

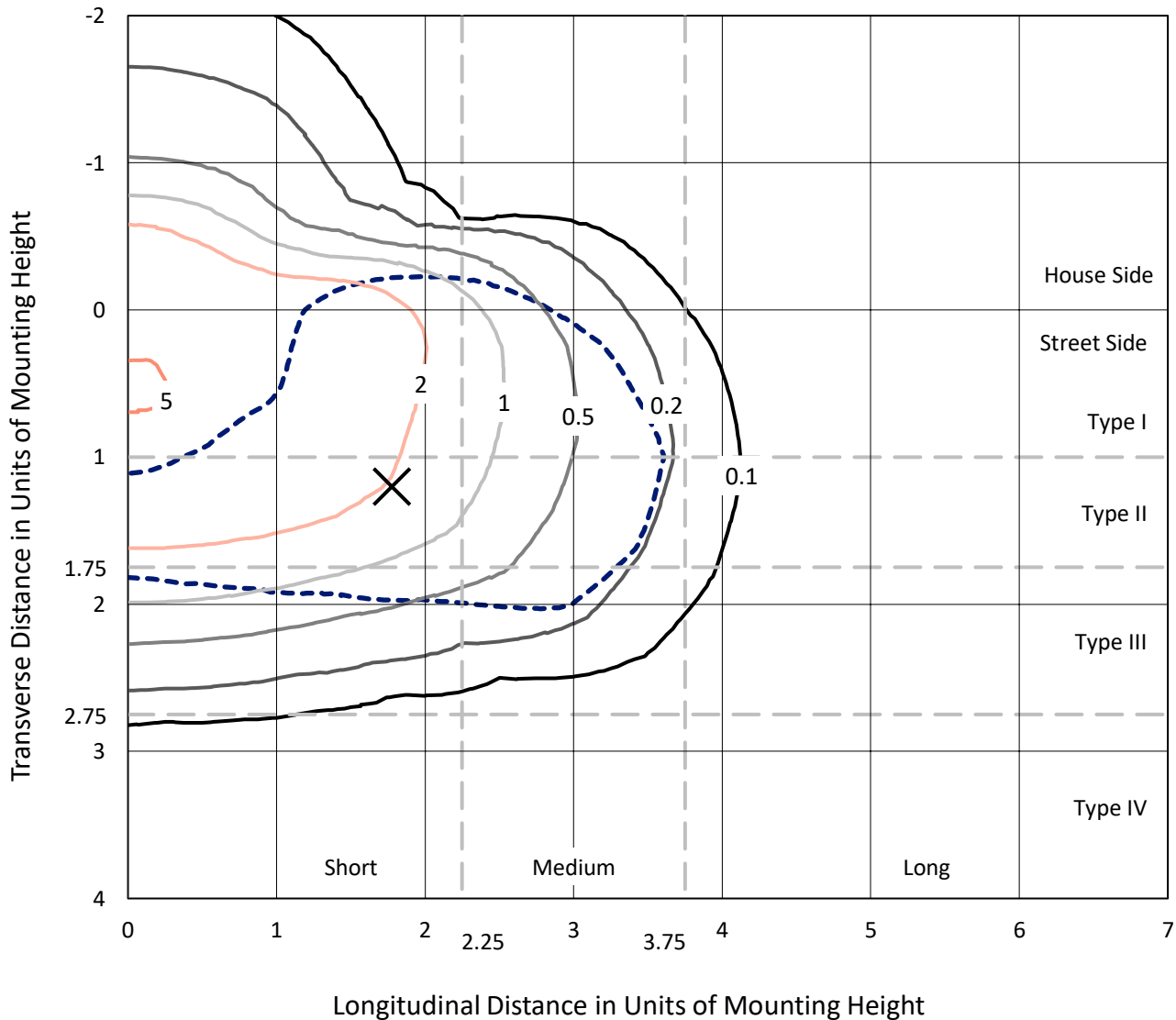
Lumens per Lamp: N/A
Luminaire Lumens: 23435.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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

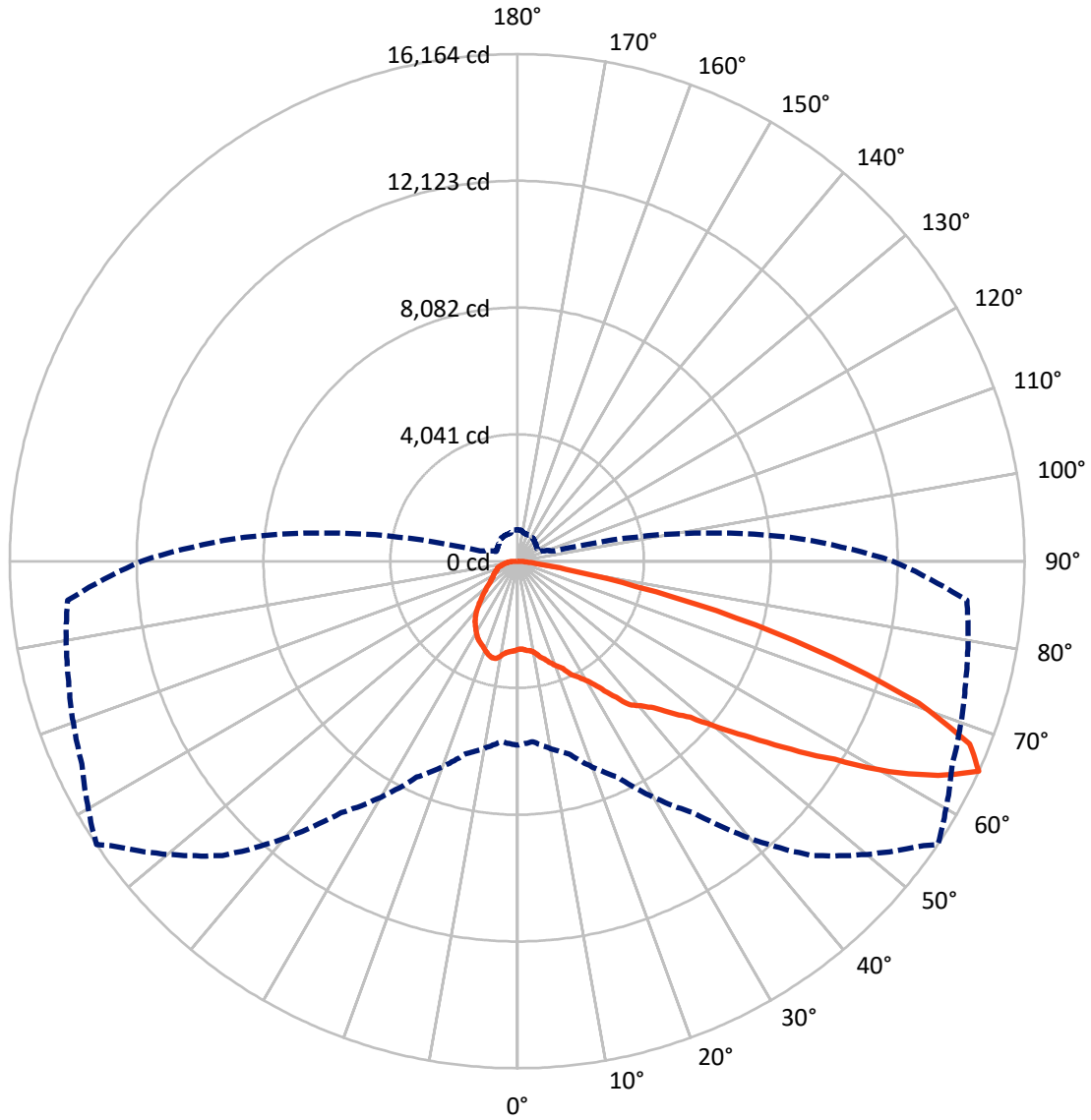
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	5255.7	0.0	5255.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18179.4	0.0	18179.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	23435.1	0.0	23435.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	1.2
10°-20°	905.1	3.9
20°-30°	1611.6	6.9
30°-40°	2413.4	10.3
40°-50°	3575.7	15.3
50°-60°	5509.7	23.5
60°-70°	6237.7	26.6
70°-80°	2588.7	11.0
80°-90°	314.5	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°	23435.1	100.0
0°-180°	23435.1	100.0

Coefficient of Utilization

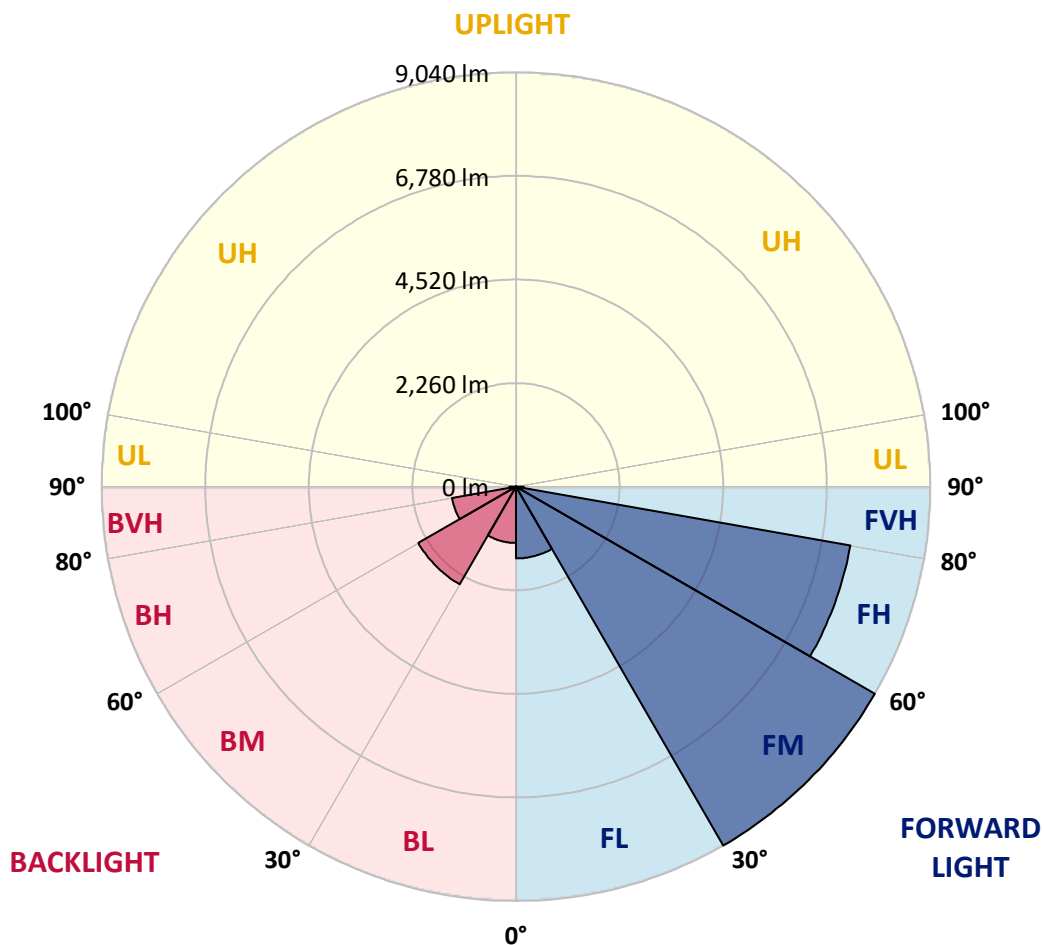


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.1	6.7			
FM (30°-60°)	9040.3	38.6			
FH (60°-80°)	7407.1	31.6			G3/7500
FVH (80°-90°)	165.9	0.7			G2/225
BL (0°-30°)	1229.4	5.2	B3/2500		
BM (30°-60°)	2458.5	10.5	B2/2500		
BH (60°-80°)	1419.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	148.6	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°	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9
2.5°	2739.3	2754.0	2744.2	2773.6	2798.2	2798.2	2817.8	2803.1	2822.7	2849.7
5°	2830.1	2771.2	2803.1	2817.8	2810.4	2822.7	2803.1	2852.1	2820.2	2871.7
7.5°	2852.1	2874.2	2901.2	2876.6	2898.7	2886.5	2888.9	2881.6	2864.4	2906.1
10°	3014.0	2982.1	3043.4	3006.6	3001.7	2996.8	2987.0	2950.2	2991.9	2994.4
12.5°	3200.4	3170.9	3168.5	3139.1	3178.3	3107.2	3121.9	3102.3	3109.6	3119.4
15°	3335.2	3323.0	3379.4	3345.1	3293.6	3261.7	3296.0	3242.1	3269.0	3264.1
17.5°	3602.6	3600.1	3558.4	3502.0	3472.6	3426.0	3418.6	3396.6	3416.2	3406.4
20°	3788.9	3815.9	3823.3	3757.1	3644.2	3592.7	3580.5	3563.3	3585.4	3578.0
22.5°	4073.4	4031.7	4063.6	3948.3	3906.7	3784.0	3739.9	3715.4	3820.8	3793.8
25°	4254.9	4299.0	4267.2	4227.9	4134.7	3982.7	3950.8	4004.7	4046.4	4017.0
27.5°	4664.4	4620.3	4590.9	4473.2	4411.8	4252.4	4215.7	4196.0	4205.8	4223.0
30°	4975.9	5000.4	4934.2	4850.8	4696.3	4534.5	4448.6	4431.5	4397.1	4367.7
32.5°	5419.8	5383.0	5343.7	5289.8	5157.4	4944.0	4860.6	4796.9	4693.9	4556.5
35°	5633.1	5738.6	5709.2	5564.5	5463.9	5383.0	5358.5	5260.4	5174.5	4958.7
37.5°	5988.7	6032.9	5991.2	5944.6	5898.0	5812.2	5782.7	5809.7	5640.5	5284.9
40°	6219.3	6312.4	6398.3	6268.3	6258.5	6275.7	6094.2	6062.3	5714.1	5527.7
42.5°	6690.1	6729.3	6746.5	6741.6	6798.0	6798.0	6452.2	6383.6	6135.9	5983.8
45°	7313.0	7344.9	7406.2	7450.3	7386.6	7418.5	6925.5	6898.6	6677.8	6648.4
47.5°	7852.5	7928.6	8065.9	8195.9	8279.3	8171.4	7631.8	7440.5	7384.1	7560.7
50°	8323.4	8232.7	8553.9	8686.4	9051.8	9230.8	8411.7	8335.7	8244.9	8583.4
52.5°	8370.0	8492.6	8946.3	9211.2	9964.0	10295.1	9368.1	9336.2	9225.9	9615.8
55°	8703.5	8688.8	9144.9	9718.8	10613.9	11170.6	10613.9	10594.3	10354.0	10724.3
57.5°	8647.1	8796.7	9157.2	9959.1	11200.0	12109.9	12058.4	11923.5	11587.5	11889.2
60°	8455.8	8495.1	8934.0	9951.8	11540.9	13073.7	13618.1	13645.1	12958.4	13198.7
62.5°	7371.9	7462.6	8019.3	9169.5	11298.1	13738.3	15141.0	15045.4	14496.1	14221.4
65°	5863.7	5772.9	6351.7	7595.0	9787.5	13267.4	15808.1	16163.7	15300.4	14797.7
67.5°	3595.2	3573.1	4129.8	5226.0	7322.8	11290.8	15275.9	15553.0	15077.3	14675.1
70°	1851.6	1795.1	2143.4	2915.9	4603.1	8284.2	13294.4	13566.6	14020.3	13162.0
72.5°	863.2	851.0	1037.4	1434.6	2344.5	4870.4	10295.1	10491.3	11447.7	11097.0
75°	507.6	515.0	620.5	750.4	1142.8	2295.4	6832.3	7212.5	8249.8	7997.2
77.5°	380.1	380.1	441.4	522.4	667.0	887.8	3372.0	3874.8	4823.8	4338.3
80°	279.6	284.5	338.4	392.4	463.5	458.6	1339.0	1569.5	2212.1	1890.8
82.5°	218.3	225.6	262.4	291.8	326.2	277.1	549.3	591.0	909.8	723.5
85°	152.0	157.0	206.0	198.6	198.6	154.5	228.1	240.3	360.5	343.3
87.5°	36.8	41.7	100.5	110.4	83.4	46.6	71.1	80.9	130.0	149.6
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°
2812.9	0°	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9	2812.9
2861.9	2.5°	2825.1	2835.0	2876.6	2854.6	2866.8	2815.3	2857.0	2822.7	2852.1	2837.4
2884.0	5°	2903.6	2881.6	2906.1	2888.9	2888.9	2908.5	2938.0	2915.9	2960.0	2940.4
2901.2	7.5°	2935.5	2938.0	2952.7	2955.1	2942.9	3004.2	3006.6	2999.3	3041.0	3031.1
3018.9	10°	3014.0	3016.4	3043.4	3058.1	3045.9	3067.9	3043.4	3023.8	3021.3	3011.5
3112.1	12.5°	3139.1	3163.6	3158.7	3170.9	3173.4	3080.2	3023.8	2928.1	2915.9	2928.1
3249.4	15°	3254.3	3244.5	3249.4	3273.9	3170.9	3021.3	2920.8	2839.9	2844.8	2847.2
3428.4	17.5°	3391.6	3399.0	3406.4	3293.6	3104.7	2928.1	2839.9	2839.9	2815.3	2825.1
3553.5	20°	3548.6	3519.2	3455.4	3296.0	2989.5	2820.2	2793.3	2793.3	2763.8	2744.2
3688.4	22.5°	3671.2	3612.4	3516.7	3220.0	2886.5	2778.6	2712.3	2665.7	2631.4	2592.2
3838.0	25°	3749.7	3717.8	3531.4	3141.5	2810.4	2668.2	2570.1	2499.0	2454.8	2403.3
3955.7	27.5°	3869.9	3808.6	3573.1	3050.8	2727.1	2557.8	2405.8	2295.4	2212.1	2158.1
4134.7	30°	4031.7	3943.4	3543.7	2920.8	2599.5	2366.6	2187.5	2045.3	1949.6	1905.5
4303.9	32.5°	4164.2	4048.9	3519.2	2803.1	2457.3	2172.8	1934.9	1790.2	1736.3	1679.9
4588.4	35°	4416.7	4188.7	3502.0	2736.9	2329.8	1979.1	1728.9	1603.9	1535.2	1451.8
4757.6	37.5°	4610.5	4431.5	3460.3	2599.5	2165.5	1790.2	1572.0	1459.2	1356.2	1267.9
5150.0	40°	4914.6	4769.9	3462.8	2405.8	1971.7	1628.4	1449.4	1331.6	1201.7	1125.6
5731.2	42.5°	5486.0	5103.4	3477.5	2251.3	1753.5	1496.0	1339.0	1199.2	1069.2	1005.5
6393.4	45°	6187.4	5562.0	3386.7	2111.5	1530.3	1370.9	1206.6	1066.8	983.4	936.8
7293.4	47.5°	6994.2	6010.8	3264.1	1849.1	1343.9	1238.5	1084.0	1003.0	941.7	914.7
8453.4	50°	7896.7	6653.3	3229.8	1608.8	1199.2	1125.6	1025.1	963.8	922.1	890.2
9760.5	52.5°	9059.1	7401.3	3161.1	1361.1	1074.1	1034.9	1003.0	961.3	924.5	897.6
10979.3	55°	10170.0	8230.2	3087.6	1157.5	985.9	990.8	1007.9	971.1	939.3	897.6
12345.3	57.5°	11420.8	9076.3	2815.3	1007.9	919.6	968.7	1003.0	961.3	929.5	897.6
13743.2	60°	12193.3	9552.0	2283.2	878.0	860.8	927.0	973.6	929.5	895.1	907.4
14385.7	62.5°	12507.2	9301.9	1721.6	797.0	819.1	870.6	927.0	909.8	885.3	931.9
14378.3	65°	11972.5	8725.6	1231.1	728.4	762.7	814.2	885.3	904.9	912.3	1003.0
13206.1	67.5°	10653.2	7597.5	904.9	672.0	703.8	779.9	914.7	946.6	941.7	1054.5
11082.3	70°	8524.5	5942.1	706.3	625.4	681.8	806.8	956.4	956.4	922.1	1054.5
8453.4	72.5°	6202.1	4188.7	608.2	571.4	625.4	740.6	951.5	949.1	904.9	963.8
5383.0	75°	3754.6	2437.7	537.1	517.5	537.1	635.2	909.8	895.1	833.8	828.9
2589.7	77.5°	1871.2	1226.2	439.0	458.6	468.4	532.2	799.5	821.5	738.2	718.5
1022.6	80°	789.7	534.6	365.4	394.8	394.8	448.8	664.6	679.3	613.1	576.3
404.6	82.5°	360.5	306.5	311.5	343.3	321.3	348.2	527.3	544.4	497.8	436.5
171.7	85°	152.0	174.1	237.9	269.8	237.9	225.6	363.0	382.6	323.7	269.8
73.6	87.5°	68.7	95.6	149.6	196.2	120.2	105.5	193.7	201.1	161.9	120.2
0.0	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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180°
2812.9
2810.4
2913.4
3016.4
3011.5
2933.1
2881.6
2827.6
2714.8
2570.1
2413.1
2182.6
1930.0
1677.4
1444.5
1270.3
1133.0
1010.4
946.6
909.8
895.1
895.1
895.1
895.1
897.6
919.6
1003.0
1061.9
1032.5
929.5
819.1
706.3
564.0
426.7
272.2
112.8
0.0

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