

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: P477906

Luminaire Tested: **IFLD-M-SA4D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

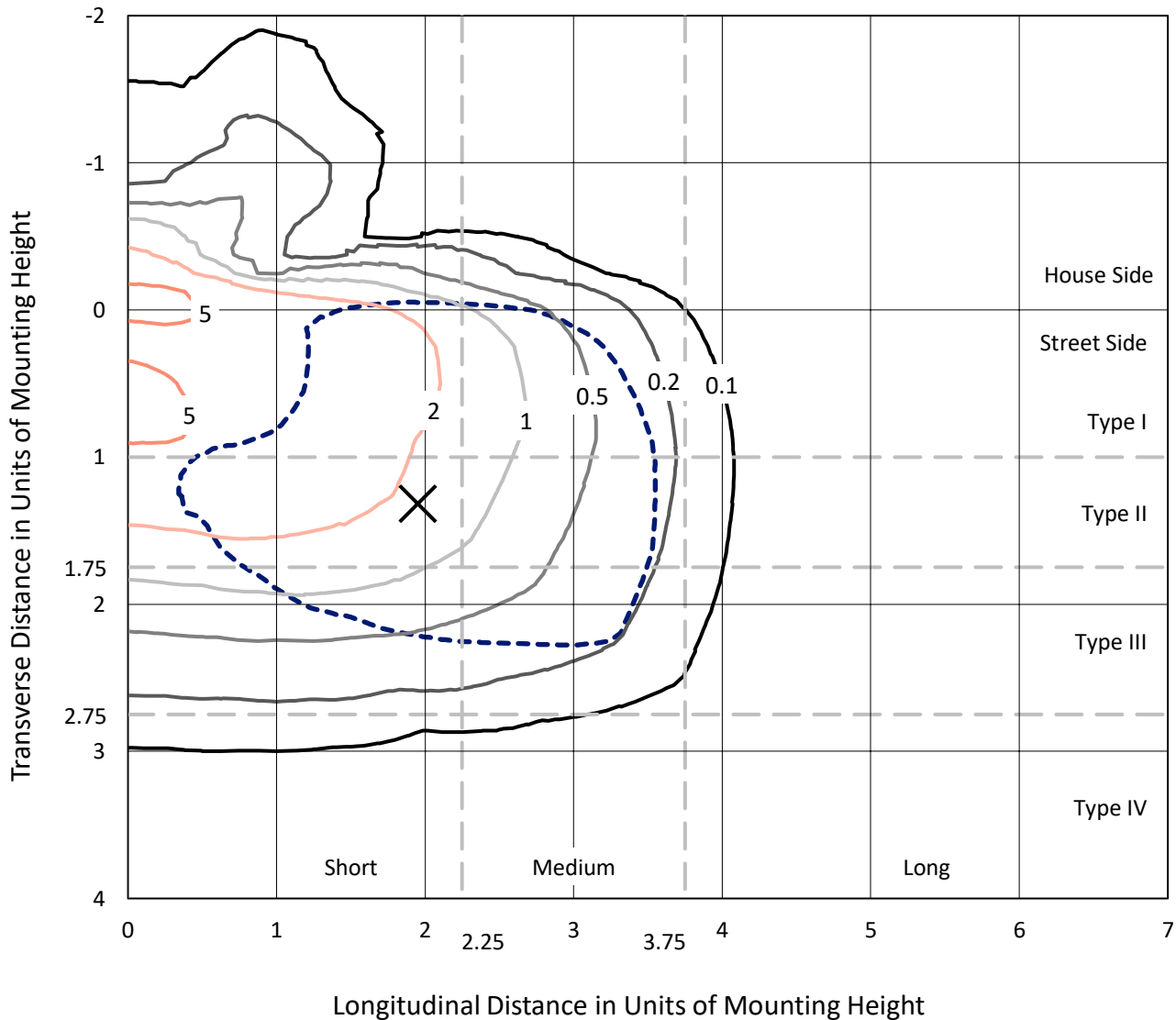
Lumens per Lamp: N/A
Luminaire Lumens: 22589.7 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): 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

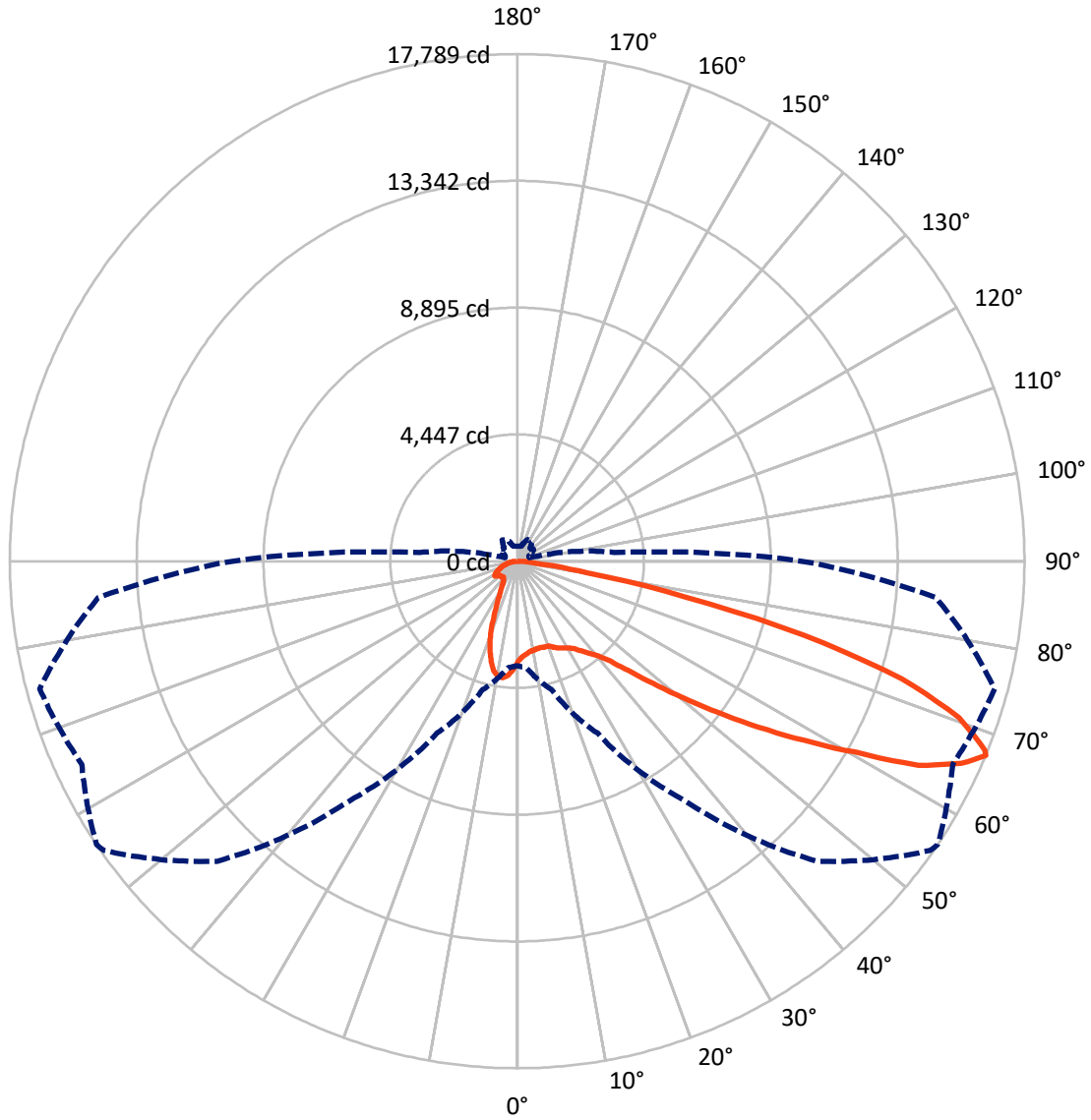
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3576.2	0.0	3576.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	19013.5	0.0	19013.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	22589.7	0.0	22589.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.5
10°-20°	923.8	4.1
20°-30°	1448.8	6.4
30°-40°	2068.1	9.2
40°-50°	3121.4	13.8
50°-60°	4968.8	22.0
60°-70°	6352.2	28.1
70°-80°	3097.1	13.7
80°-90°	270.9	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°	22589.7	100.0
0°-180°	22589.7	100.0

Coefficient of Utilization

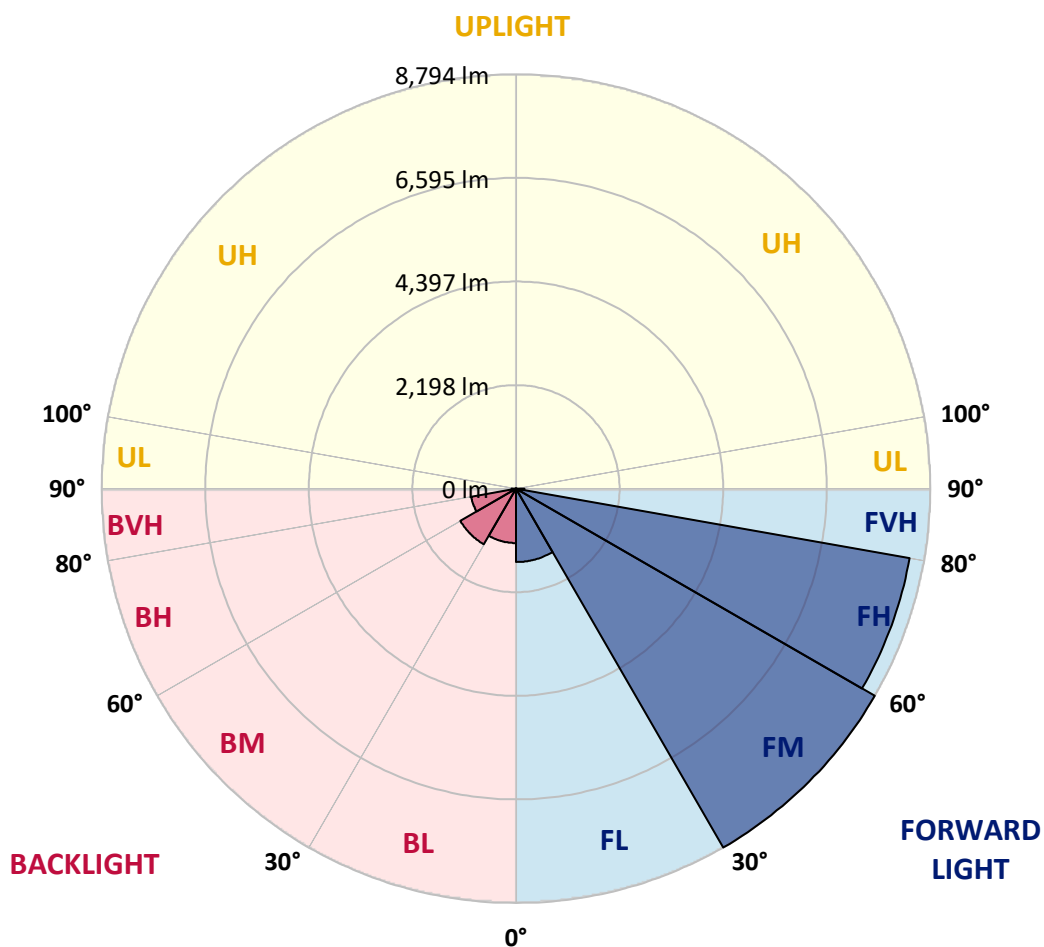


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.7	6.9			
FM (30°-60°)	8794.0	38.9			
FH (60°-80°)	8482.9	37.6			G4/12000
FVH (80°-90°)	179.9	0.8			G2/225
BL (0°-30°)	1154.5	5.1	B3/2500		
BM (30°-60°)	1364.4	6.0	B2/2500		
BH (60°-80°)	966.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	91.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
2.5°	3228.8	3215.6	3231.5	3215.6	3287.1	3329.5	3342.7	3361.3	3427.5	3491.1
5°	3093.7	3035.5	3099.0	3120.2	3125.5	3197.0	3271.2	3284.5	3318.9	3422.2
7.5°	2868.6	2934.8	2911.0	2974.6	3040.8	3112.3	3234.1	3199.7	3326.8	3424.8
10°	2820.9	2826.2	2852.7	2876.5	2934.8	3027.5	3197.0	3175.9	3305.6	3514.9
12.5°	2868.6	2868.6	2860.7	2842.1	2908.3	2998.4	3133.5	3144.1	3348.0	3541.4
15°	3035.5	3067.3	2982.5	2995.7	2969.3	2998.4	3117.6	3141.4	3363.9	3562.6
17.5°	3443.4	3432.8	3332.1	3191.7	3075.2	3056.7	3138.8	3165.3	3348.0	3623.5
20°	3840.7	3819.5	3644.7	3499.0	3268.6	3160.0	3173.2	3175.9	3374.5	3663.2
22.5°	4283.0	4338.7	4147.9	3851.3	3565.2	3295.1	3242.1	3284.5	3435.4	3684.4
25°	4977.0	4857.8	4693.6	4304.2	3843.3	3504.3	3356.0	3377.2	3493.7	3737.4
27.5°	5477.6	5429.9	5173.0	4857.8	4232.7	3668.5	3416.9	3456.6	3599.7	3734.7
30°	5959.7	5959.7	5803.4	5331.9	4643.3	3944.0	3546.7	3528.1	3549.3	3729.4
32.5°	6523.9	6447.1	6221.9	5909.4	5159.8	4195.6	3650.0	3655.3	3655.3	3827.5
35°	6820.5	6945.0	6794.1	6285.5	5554.4	4614.1	3899.0	3859.2	3830.1	3936.0
37.5°	7254.9	7329.1	7170.2	6870.9	6044.5	4953.2	4118.8	4087.0	3917.5	4020.8
40°	7517.2	7503.9	7498.6	7360.9	6693.4	5353.1	4442.0	4359.9	4132.1	4320.1
42.5°	7665.5	7639.0	7964.8	7880.0	7305.3	5941.2	4847.2	4802.2	4550.6	4852.5
45°	7832.4	8028.4	8295.9	8534.3	8017.8	6767.6	5533.2	5469.7	5244.5	5628.6
47.5°	7978.0	8219.1	8560.8	8815.1	8661.4	7665.5	6380.9	6396.7	6248.4	6643.1
50°	8221.7	8245.6	8709.1	9223.0	9342.2	8494.6	7519.8	7493.3	7427.1	7980.7
52.5°	8147.6	8219.1	8804.5	9461.4	9657.4	9371.3	8743.5	8823.0	8735.6	9432.2
55°	6939.7	7154.3	8746.2	9713.0	10404.3	10361.9	10316.9	10263.9	10258.6	11063.8
57.5°	6391.4	6566.3	7705.2	9991.1	11204.2	11516.8	11808.1	11866.4	11863.8	12835.9
60°	6031.2	6211.3	7284.1	9840.1	11885.0	13029.2	13588.1	13596.1	13580.2	14729.7
62.5°	5326.6	5501.5	6555.7	9013.7	12073.0	14425.1	15670.0	15773.3	15044.9	16361.4
65°	4479.0	4622.1	5551.8	7750.3	11572.4	15312.5	17235.4	17113.6	16279.2	17293.7
67°	3663.2	3758.6	4664.5	6653.7	10263.9	14886.0	17688.4	17789.0	16848.7	17333.5
67.5°	3430.1	3517.5	4373.1	6280.2	9766.0	14562.9	17704.3	17688.4	16859.3	17341.4
70°	2381.2	2418.3	2979.8	4320.1	7194.0	12303.5	16411.7	16448.8	16152.1	16401.1
72.5°	1578.7	1634.3	1991.9	2722.9	4240.7	8952.8	13717.9	14115.2	13927.2	13447.7
75°	1017.1	1048.9	1303.2	1621.0	2087.2	5098.9	10134.1	10399.0	9967.3	8317.1
77.5°	569.5	603.9	786.7	985.3	1017.1	2121.7	5692.2	6020.6	5101.5	3533.4
80°	354.9	400.0	593.3	585.4	484.7	778.7	2346.8	2513.7	2039.5	1215.8
82.5°	267.5	302.0	458.2	410.6	272.8	347.0	879.4	943.0	746.9	468.8
85°	182.8	230.4	331.1	254.3	143.0	166.9	349.6	376.1	341.7	227.8
87.5°	66.2	98.0	172.2	127.1	63.6	50.3	113.9	127.1	121.8	103.3
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°
3514.9	0°	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9	3514.9
3546.7	2.5°	3597.0	3634.1	3652.6	3761.2	3806.3	3798.3	3808.9	3824.8	3840.7	3861.9
3591.7	5°	3626.1	3740.0	3801.0	3928.1	4012.9	3975.8	4023.5	4010.2	3991.7	3989.0
3673.8	7.5°	3721.5	3867.2	4049.9	4084.4	4121.5	4028.8	3949.3	3840.7	3814.2	3721.5
3742.7	10°	3891.0	4010.2	4232.7	4246.0	4081.7	3843.3	3665.9	3440.7	3438.1	3303.0
3848.6	12.5°	4052.6	4187.7	4367.8	4291.0	3899.0	3573.2	3284.5	3038.1	2934.8	2866.0
3912.2	15°	4153.2	4375.7	4471.1	4140.0	3578.5	3138.8	2765.3	2500.4	2394.5	2344.1
3991.7	17.5°	4246.0	4555.9	4513.5	3875.1	3183.8	2691.1	2246.1	2015.7	1986.6	1949.5
4118.8	20°	4373.1	4622.1	4362.5	3530.8	2736.2	2113.7	1830.3	1719.0	1745.5	1761.4
4132.1	22.5°	4492.3	4656.5	4171.8	3154.7	2161.4	1674.0	1533.6	1557.5	1597.2	1650.2
4163.8	25°	4545.3	4712.1	3914.9	2635.5	1644.9	1409.1	1377.4	1417.1	1483.3	1486.0
4208.9	27.5°	4579.7	4672.4	3605.0	2129.6	1300.5	1231.7	1279.3	1308.5	1316.4	1348.2
4304.2	30°	4640.6	4590.3	3212.9	1523.0	1091.3	1093.9	1154.9	1154.9	1154.9	1178.7
4399.6	32.5°	4746.6	4534.7	2754.7	1112.5	940.3	1025.1	1009.2	1003.9	993.3	964.1
4521.4	35°	4812.8	4383.7	2174.6	823.8	845.0	940.3	935.0	852.9	715.2	646.3
4831.3	37.5°	4950.5	4306.9	1599.8	635.7	789.3	897.9	868.8	670.1	519.2	452.9
5215.4	40°	5247.2	4256.5	1107.2	556.2	752.2	876.7	776.1	572.1	397.3	280.8
5808.7	42.5°	5610.1	4259.2	752.2	524.5	754.9	921.8	746.9	490.0	280.8	225.1
6600.7	45°	6097.4	4219.5	516.5	524.5	802.6	995.9	765.5	445.0	272.8	286.1
7594.0	47.5°	6621.9	4253.9	384.1	476.8	810.5	998.6	699.3	437.0	262.2	331.1
8674.7	50°	7233.7	4288.3	317.9	439.7	813.2	966.8	643.6	426.4	272.8	349.6
9914.3	52.5°	7864.2	4396.9	270.2	415.9	845.0	953.6	643.6	442.3	272.8	304.6
11492.9	55°	8804.5	4675.1	389.4	519.2	961.5	1041.0	792.0	619.8	381.4	392.0
13005.4	57.5°	9842.8	4961.1	434.4	545.6	988.0	937.7	852.9	683.4	402.6	405.3
14181.4	60°	10526.2	4971.7	431.7	532.4	924.4	810.5	834.4	720.5	410.6	347.0
14909.8	62.5°	10799.0	4648.6	450.3	532.4	860.8	757.5	855.5	776.1	423.8	434.4
15116.4	65°	10489.1	3981.1	434.4	476.8	757.5	678.1	860.8	786.7	463.5	437.0
14745.6	67°	10004.3	3430.1	442.3	452.9	704.6	643.6	905.9	826.4	537.7	524.5
14552.3	67.5°	9866.6	3284.5	439.7	439.7	686.0	633.1	916.5	826.4	548.3	543.0
12843.8	70°	8695.9	2662.0	450.3	434.4	606.6	601.3	974.7	871.4	630.4	635.7
9434.9	72.5°	6619.2	2018.4	447.6	434.4	527.1	574.8	982.7	900.6	686.0	635.7
5284.3	75°	3761.2	1207.8	394.7	378.8	415.9	500.6	919.1	858.2	667.5	569.5
2111.1	77.5°	1554.8	622.5	362.9	341.7	344.3	407.9	765.5	799.9	635.7	484.7
704.6	80°	580.1	373.5	291.4	272.8	264.9	299.3	545.6	638.3	543.0	397.3
309.9	82.5°	302.0	233.1	198.7	198.7	180.1	190.7	294.0	423.8	410.6	272.8
124.5	85°	153.6	132.4	113.9	111.2	100.7	90.1	148.3	251.6	235.7	151.0
55.6	87.5°	82.1	74.2	47.7	45.0	37.1	23.8	26.5	50.3	82.1	66.2
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>
3514.9
3883.1
4012.9
3753.3
3297.7
2850.1
2333.6
1968.0
1742.9
1621.0
1512.4
1377.4
1205.2
948.3
678.1
450.3
272.8
219.8
291.4
368.2
405.3
312.6
413.2
392.0
357.6
439.7
429.1
516.5
532.4
588.0
564.2
508.6
458.2
362.9
214.5
124.5
47.7
0.0

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