

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: P477340

Luminaire Tested: **IFLD-S-SA3D-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477340
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

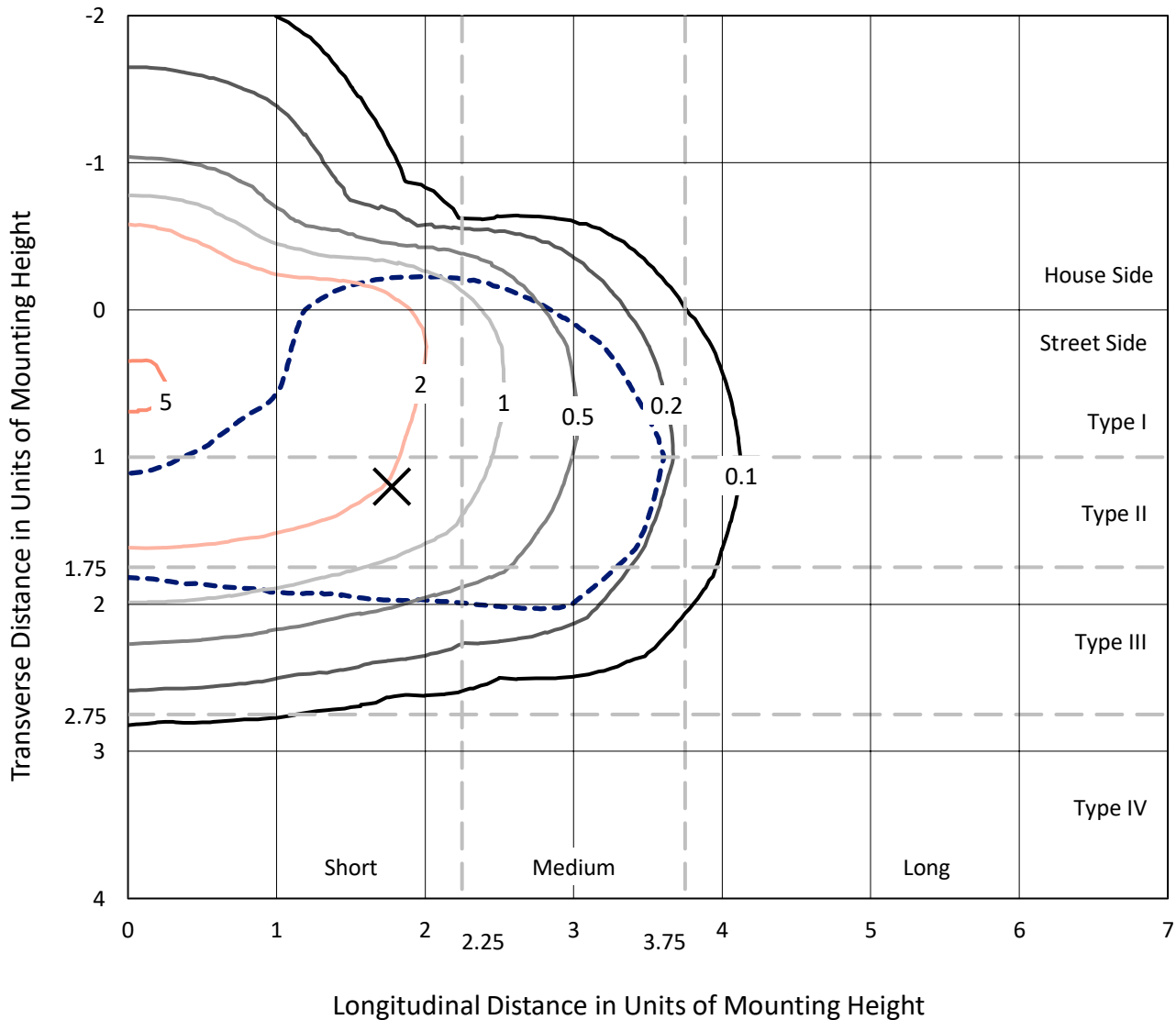
Lumens per Lamp: N/A
Luminaire Lumens: 23413.5 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

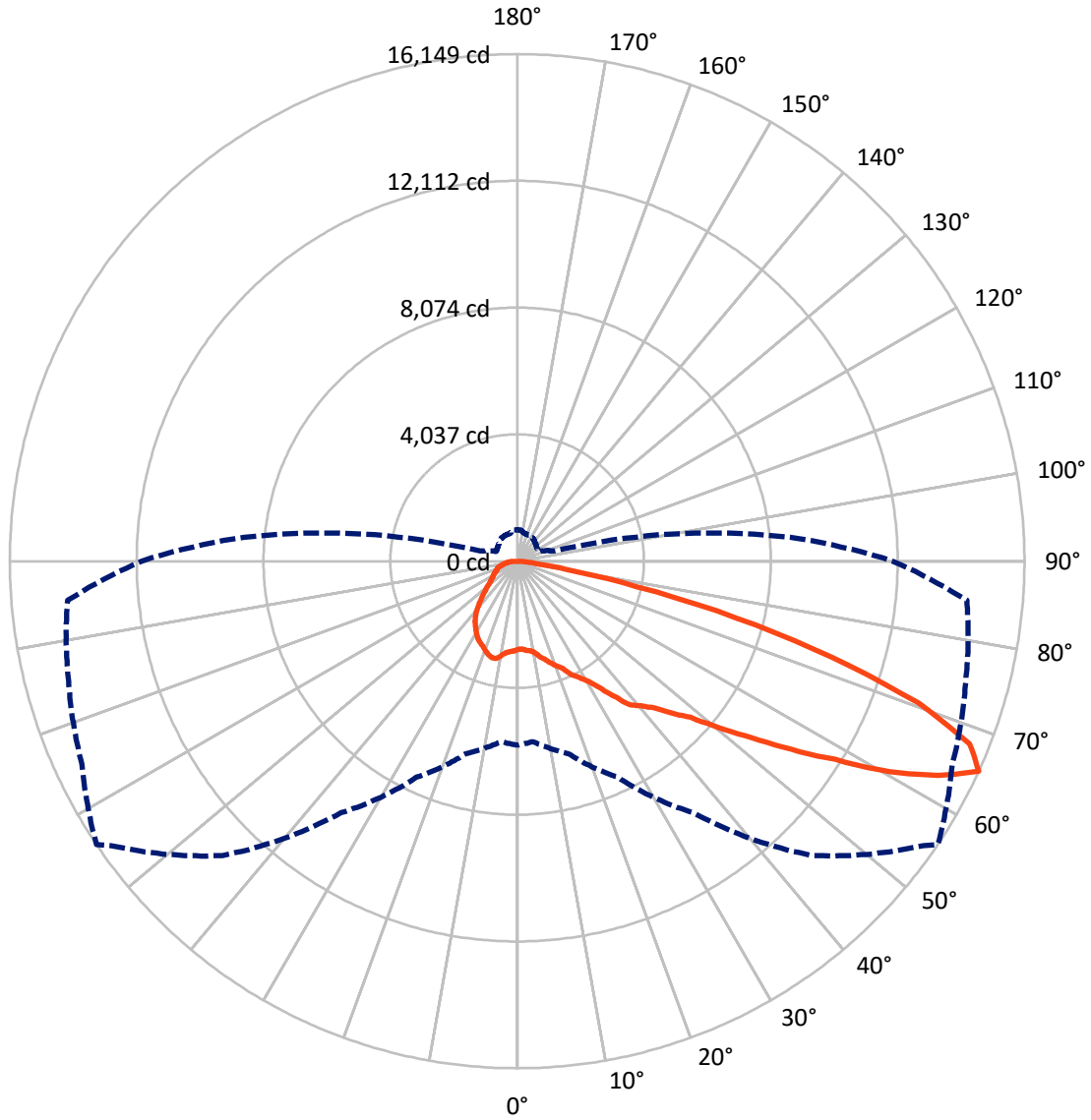
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5250.9	0.0	5250.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18162.6	0.0	18162.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	23413.5	0.0	23413.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.2
10°-20°	904.3	3.9
20°-30°	1610.1	6.9
30°-40°	2411.1	10.3
40°-50°	3572.4	15.3
50°-60°	5504.6	23.5
60°-70°	6231.9	26.6
70°-80°	2586.3	11.0
80°-90°	314.2	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°	23413.5	100.0
0°-180°	23413.5	100.0

Coefficient of Utilization

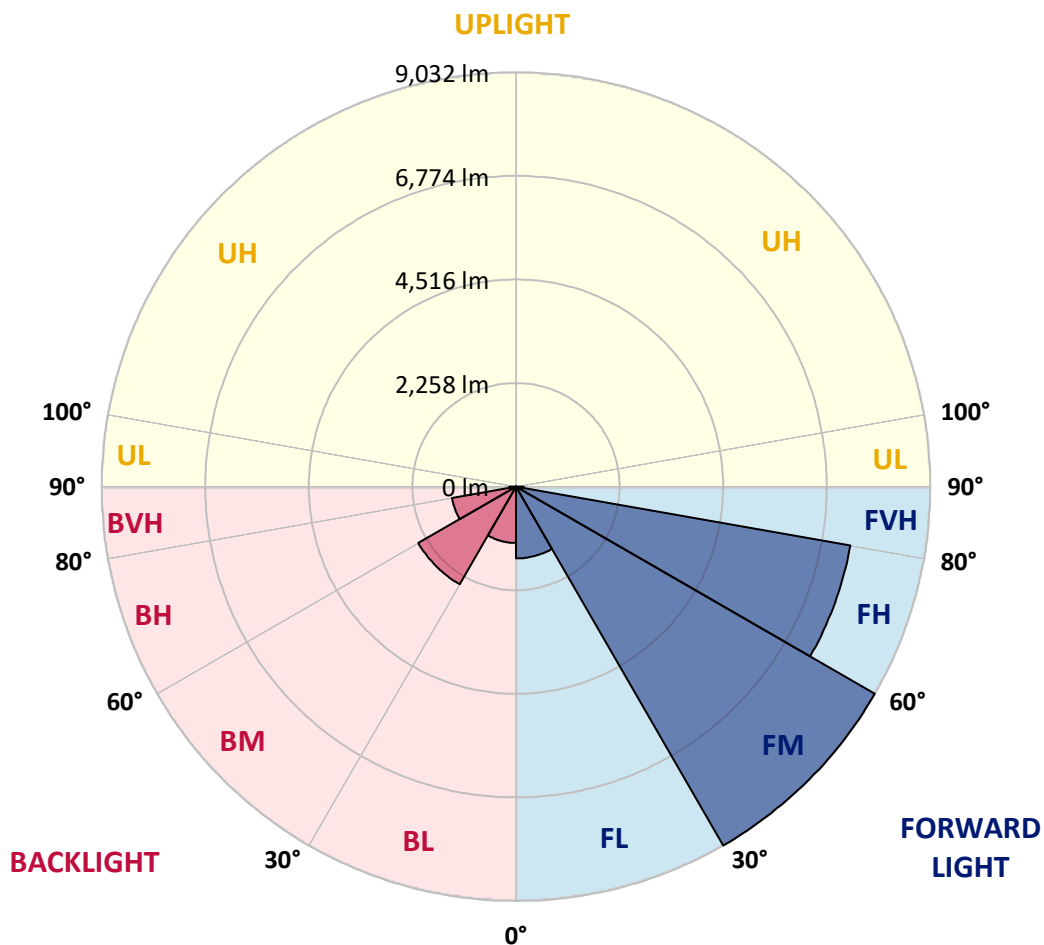


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.7	6.7			
FM (30°-60°)	9031.9	38.6			
FH (60°-80°)	7400.2	31.6			G3/7500
FVH (80°-90°)	165.7	0.7			G2/225
BL (0°-30°)	1228.2	5.2	B3/2500		
BM (30°-60°)	2456.3	10.5	B2/2500		
BH (60°-80°)	1417.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	148.5	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°	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3
2.5°	2736.8	2751.5	2741.7	2771.1	2795.6	2795.6	2815.2	2800.5	2820.1	2847.0
5°	2827.4	2768.6	2800.5	2815.2	2807.8	2820.1	2800.5	2849.5	2817.6	2869.1
7.5°	2849.5	2871.5	2898.5	2874.0	2896.0	2883.8	2886.2	2878.9	2861.7	2903.4
10°	3011.2	2979.3	3040.6	3003.8	2998.9	2994.0	2984.2	2947.5	2989.1	2991.6
12.5°	3197.4	3168.0	3165.5	3136.1	3175.3	3104.3	3119.0	3099.4	3106.7	3116.5
15°	3332.2	3319.9	3376.3	3342.0	3290.5	3258.7	3293.0	3239.1	3266.0	3261.1
17.5°	3599.2	3596.8	3555.1	3498.8	3469.4	3422.8	3415.5	3393.4	3413.0	3403.2
20°	3785.4	3812.4	3819.7	3753.6	3640.9	3589.4	3577.2	3560.0	3582.1	3574.7
22.5°	4069.6	4028.0	4059.8	3944.7	3903.0	3780.5	3736.4	3711.9	3817.3	3790.3
25°	4250.9	4295.1	4263.2	4224.0	4130.9	3979.0	3947.1	4001.0	4042.7	4013.3
27.5°	4660.1	4616.0	4586.6	4469.0	4407.8	4248.5	4211.7	4192.1	4201.9	4219.1
30°	4971.3	4995.8	4929.6	4846.3	4692.0	4530.3	4444.5	4427.4	4393.1	4363.7
32.5°	5414.8	5378.0	5338.8	5284.9	5152.6	4939.4	4856.1	4792.4	4689.5	4552.3
35°	5627.9	5733.3	5703.9	5559.3	5458.9	5378.0	5353.5	5255.5	5169.7	4954.1
37.5°	5983.2	6027.3	5985.6	5939.1	5892.5	5806.8	5777.4	5804.3	5635.3	5280.0
40°	6213.5	6306.6	6392.3	6262.5	6252.7	6269.8	6088.5	6056.7	5708.8	5522.6
42.5°	6683.9	6723.1	6740.3	6735.4	6791.7	6791.7	6446.3	6377.6	6130.2	5978.3
45°	7306.2	7338.1	7399.3	7443.4	7379.7	7411.6	6919.1	6892.2	6671.7	6642.3
47.5°	7845.3	7921.2	8058.4	8188.3	8271.6	8163.8	7624.8	7433.6	7377.3	7553.7
50°	8315.7	8225.0	8546.0	8678.3	9043.4	9222.2	8403.9	8327.9	8237.3	8575.4
52.5°	8362.2	8484.7	8938.0	9202.6	9954.8	10285.6	9359.4	9327.6	9217.3	9606.9
55°	8695.5	8680.8	9136.5	9709.8	10604.1	11160.3	10604.1	10584.5	10344.4	10714.4
57.5°	8639.1	8788.6	9148.7	9949.9	11189.7	12098.7	12047.2	11912.5	11576.8	11878.2
60°	8448.0	8487.2	8925.8	9942.6	11530.2	13061.6	13605.5	13632.4	12946.4	13186.5
62.5°	7365.0	7455.7	8011.9	9161.0	11287.7	13725.5	15127.0	15031.5	14482.6	14208.2
65°	5858.2	5767.6	6345.8	7588.0	9778.4	13255.1	15793.4	16148.7	15286.3	14784.0
67.5°	3591.9	3569.8	4126.0	5221.2	7316.0	11280.3	15261.8	15538.6	15063.3	14661.5
70°	1849.8	1793.5	2141.4	2913.2	4598.9	8276.5	13282.1	13554.0	14007.3	13149.8
72.5°	862.4	850.2	1036.4	1433.3	2342.3	4865.9	10285.6	10481.6	11437.1	11086.8
75°	507.2	514.5	619.9	749.7	1141.8	2293.3	6826.0	7205.8	8242.2	7989.8
77.5°	379.8	379.8	441.0	521.9	666.4	886.9	3368.9	3871.2	4819.4	4334.3
80°	279.3	284.2	338.1	392.0	463.1	458.2	1337.8	1568.1	2210.0	1889.0
82.5°	218.1	225.4	262.2	291.6	325.9	276.9	548.8	590.5	909.0	722.8
85°	151.9	156.8	205.8	198.5	198.5	154.4	227.9	240.1	360.2	343.0
87.5°	36.8	41.7	100.5	110.3	83.3	46.6	71.1	80.9	129.9	149.5
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°
2810.3	0°	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3	2810.3
2859.3	2.5°	2822.5	2832.3	2874.0	2851.9	2864.2	2812.7	2854.4	2820.1	2849.5	2834.8
2881.3	5°	2900.9	2878.9	2903.4	2886.2	2886.2	2905.8	2935.2	2913.2	2957.3	2937.7
2898.5	7.5°	2932.8	2935.2	2949.9	2952.4	2940.1	3001.4	3003.8	2996.5	3038.1	3028.3
3016.1	10°	3011.2	3013.6	3040.6	3055.3	3043.0	3065.1	3040.6	3021.0	3018.5	3008.7
3109.2	12.5°	3136.1	3160.6	3155.7	3168.0	3170.4	3077.3	3021.0	2925.4	2913.2	2925.4
3246.4	15°	3251.3	3241.5	3246.4	3270.9	3168.0	3018.5	2918.1	2837.2	2842.1	2844.6
3425.3	17.5°	3388.5	3395.9	3403.2	3290.5	3101.8	2925.4	2837.2	2837.2	2812.7	2822.5
3550.2	20°	3545.3	3515.9	3452.2	3293.0	2986.7	2817.6	2790.7	2790.7	2761.3	2741.7
3685.0	22.5°	3667.8	3609.0	3513.5	3217.0	2883.8	2776.0	2709.8	2663.3	2629.0	2589.8
3834.4	25°	3746.2	3714.4	3528.2	3138.6	2807.8	2665.7	2567.7	2496.7	2452.6	2401.1
3952.0	27.5°	3866.3	3805.0	3569.8	3047.9	2724.5	2555.5	2403.6	2293.3	2210.0	2156.1
4130.9	30°	4028.0	3939.8	3540.4	2918.1	2597.1	2364.4	2185.5	2043.4	1947.8	1903.7
4300.0	32.5°	4160.3	4045.1	3515.9	2800.5	2455.0	2170.8	1933.1	1788.6	1734.7	1678.3
4584.2	35°	4412.7	4184.8	3498.8	2734.3	2327.6	1977.2	1727.3	1602.4	1533.8	1450.5
4753.2	37.5°	4606.2	4427.4	3457.1	2597.1	2163.5	1788.6	1570.5	1457.8	1354.9	1266.7
5145.2	40°	4910.0	4765.5	3459.6	2403.6	1969.9	1626.9	1448.0	1330.4	1200.6	1124.6
5725.9	42.5°	5480.9	5098.7	3474.3	2249.2	1751.8	1494.6	1337.8	1198.1	1068.2	1004.5
6387.4	45°	6181.6	5556.9	3383.6	2109.5	1528.9	1369.6	1205.5	1065.8	982.5	935.9
7286.6	47.5°	6987.7	6005.2	3261.1	1847.4	1342.7	1237.3	1083.0	1002.1	940.8	913.9
8445.5	50°	7889.4	6647.2	3226.8	1607.3	1198.1	1124.6	1024.1	962.9	921.2	889.4
9751.5	52.5°	9050.7	7394.4	3158.2	1359.8	1073.2	1033.9	1002.1	960.4	923.7	896.7
10969.2	55°	10160.6	8222.6	3084.7	1156.5	984.9	989.8	1007.0	970.2	938.4	896.7
12333.9	57.5°	11410.2	9067.9	2812.7	1007.0	918.8	967.8	1002.1	960.4	928.6	896.7
13730.4	60°	12182.0	9543.2	2281.1	877.1	860.0	926.1	972.7	928.6	894.3	906.5
14372.4	62.5°	12495.6	9293.3	1720.0	796.3	818.3	869.8	926.1	909.0	884.5	931.0
14365.0	65°	11961.5	8717.5	1230.0	727.7	762.0	813.4	884.5	904.1	911.4	1002.1
13193.9	67.5°	10643.3	7590.5	904.1	671.3	703.2	779.1	913.9	945.7	940.8	1053.5
11072.1	70°	8516.6	5936.6	705.6	624.8	681.1	806.1	955.5	955.5	921.2	1053.5
8445.5	72.5°	6196.3	4184.8	607.6	570.9	624.8	739.9	950.6	948.2	904.1	962.9
5378.0	75°	3751.1	2435.4	536.6	517.0	536.6	634.6	909.0	894.3	833.0	828.1
2587.3	77.5°	1869.4	1225.1	438.6	458.2	468.0	531.7	798.7	820.8	737.5	717.9
1021.7	80°	788.9	534.1	365.1	394.5	394.5	448.4	664.0	678.7	612.5	575.8
404.3	82.5°	360.2	306.3	311.2	343.0	321.0	347.9	526.8	543.9	497.4	436.1
171.5	85°	151.9	174.0	237.7	269.5	237.7	225.4	362.6	382.2	323.4	269.5
73.5	87.5°	68.6	95.6	149.5	196.0	120.1	105.4	193.6	200.9	161.7	120.1
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>
2810.3
2807.8
2910.7
3013.6
3008.7
2930.3
2878.9
2825.0
2712.3
2567.7
2410.9
2180.6
1928.2
1675.9
1443.1
1269.2
1132.0
1009.4
945.7
909.0
894.3
894.3
894.3
894.3
896.7
918.8
<i>1002.1</i>
1060.9
1031.5
928.6
818.3
705.6
563.5
426.3
272.0
112.7
0.0

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