

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: P477548

Luminaire Tested: **IFLD-S-SA6B-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477548
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

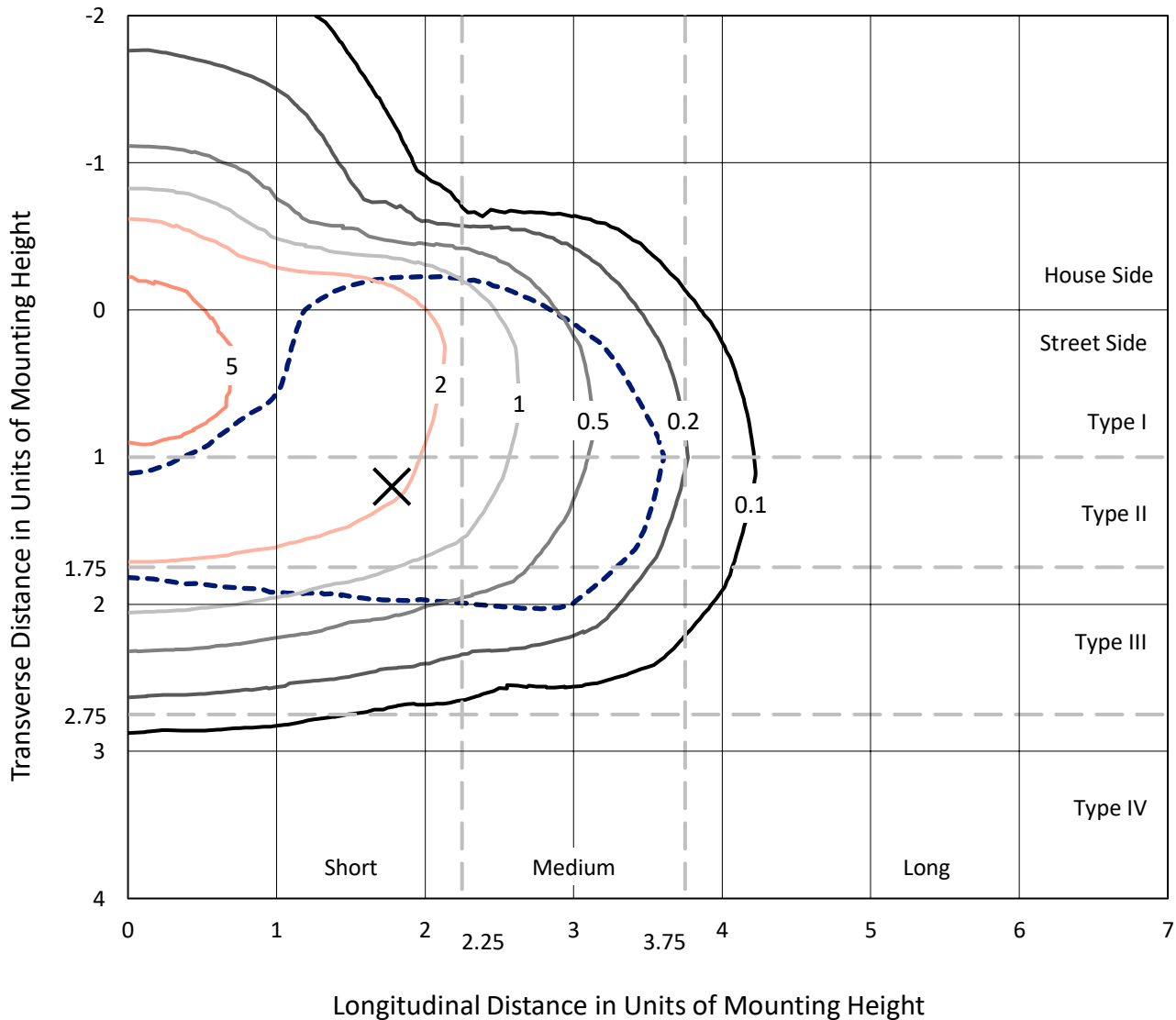
Lumens per Lamp: N/A
Luminaire Lumens: 27014.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

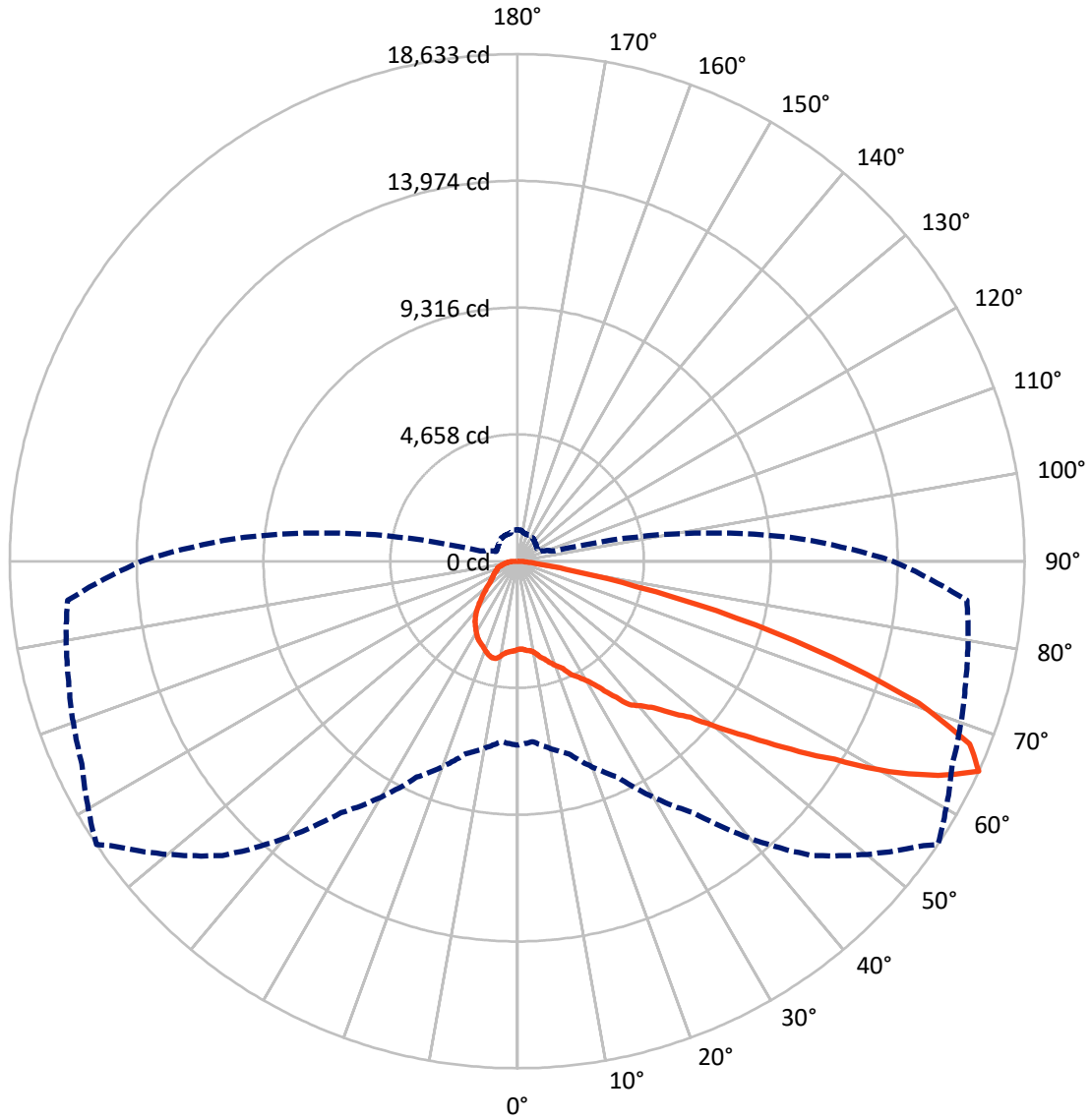
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	6058.5	0.0	6058.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	20956.2	0.0	20956.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	27014.7	0.0	27014.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	1.2
10°-20°	1043.4	3.9
20°-30°	1857.8	6.9
30°-40°	2782.0	10.3
40°-50°	4121.9	15.3
50°-60°	6351.3	23.5
60°-70°	7190.4	26.6
70°-80°	2984.1	11.0
80°-90°	362.5	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°	27014.7	100.0
0°-180°	27014.7	100.0

Coefficient of Utilization

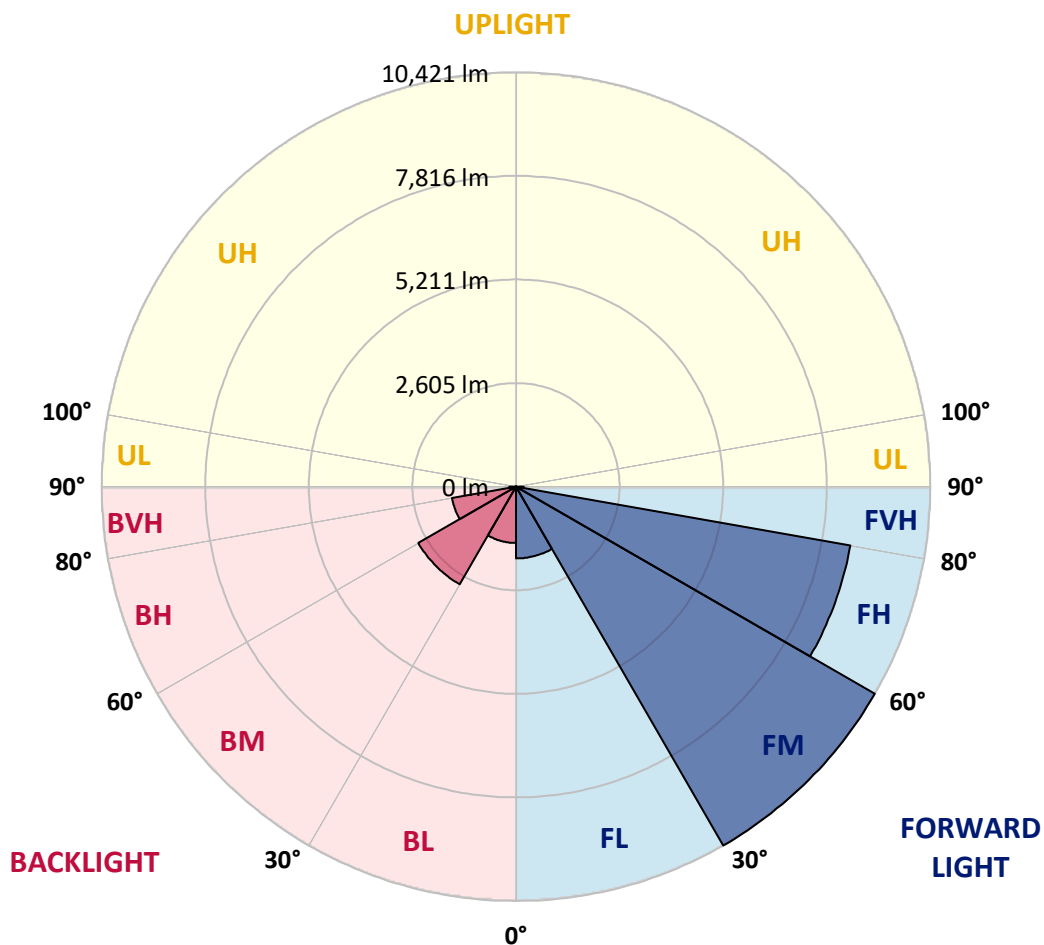


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.4	6.7			
FM (30°-60°)	10421.1	38.6			
FH (60°-80°)	8538.5	31.6			G4/12000
FVH (80°-90°)	191.2	0.7			G2/225
BL (0°-30°)	1417.1	5.2	B3/2500		
BM (30°-60°)	2834.1	10.5	B3/5000		
BH (60°-80°)	1636.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	171.3	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5
2.5°	3157.7	3174.7	3163.4	3197.3	3225.6	3225.6	3248.2	3231.2	3253.8	3284.9
5°	3262.3	3194.5	3231.2	3248.2	3239.7	3253.8	3231.2	3287.8	3251.0	3310.4
7.5°	3287.8	3313.2	3344.3	3316.0	3341.5	3327.3	3330.2	3321.7	3301.9	3350.0
10°	3474.3	3437.6	3508.3	3465.9	3460.2	3454.6	3443.3	3400.8	3448.9	3451.7
12.5°	3689.2	3655.3	3652.4	3618.5	3663.8	3581.8	3598.7	3576.1	3584.6	3595.9
15°	3844.7	3830.5	3895.6	3856.0	3796.6	3759.9	3799.5	3737.3	3768.4	3762.7
17.5°	4152.8	4150.0	4101.9	4036.9	4003.0	3949.3	3940.8	3915.4	3938.0	3926.7
20°	4367.7	4398.8	4407.2	4330.9	4200.9	4141.5	4127.4	4107.6	4133.0	4124.6
22.5°	4695.6	4647.5	4684.3	4551.4	4503.4	4362.0	4311.1	4282.9	4404.4	4373.3
25°	4904.8	4955.7	4918.9	4873.7	4766.3	4591.0	4554.3	4616.4	4664.5	4630.6
27.5°	5376.9	5326.0	5292.1	5156.4	5085.7	4902.0	4859.6	4836.9	4848.3	4868.0
30°	5735.9	5764.2	5687.9	5591.8	5413.7	5227.1	5128.1	5108.3	5068.8	5034.8
32.5°	6247.6	6205.2	6160.0	6097.8	5945.1	5699.2	5603.1	5529.6	5410.8	5252.5
35°	6493.6	6615.1	6581.2	6414.4	6298.5	6205.2	6176.9	6063.9	5964.9	5716.1
37.5°	6903.5	6954.4	6906.3	6852.6	6798.9	6699.9	6666.0	6697.1	6502.0	6092.1
40°	7169.2	7276.6	7375.6	7225.7	7214.4	7234.2	7025.0	6988.3	6586.8	6372.0
42.5°	7712.0	7757.2	7777.0	7771.3	7836.4	7836.4	7437.8	7358.6	7073.1	6897.8
45°	8430.0	8466.8	8537.5	8588.3	8514.8	8551.6	7983.4	7952.3	7697.8	7663.9
47.5°	9052.0	9139.6	9297.9	9447.7	9543.9	9419.5	8797.5	8577.0	8512.0	8715.6
50°	9594.7	9490.1	9860.5	10013.1	10434.4	10640.7	9696.5	9608.9	9504.3	9894.4
52.5°	9648.5	9789.8	10312.8	10618.1	11486.0	11867.6	10799.0	10762.3	10635.1	11084.6
55°	10032.9	10016.0	10541.8	11203.3	12235.1	12876.9	12235.1	12212.5	11935.5	12362.3
57.5°	9967.9	10140.3	10555.9	11480.3	12910.8	13959.6	13900.2	13744.7	13357.4	13705.2
60°	9747.4	9792.6	10298.7	11471.9	13303.7	15070.6	15698.2	15729.3	14937.7	15214.8
62.5°	8497.9	8602.5	9244.2	10570.0	13023.9	15836.7	17453.7	17343.5	16710.2	16393.6
65°	6759.3	6654.7	7321.9	8755.1	11282.4	15293.9	18222.7	18632.6	17637.5	17057.9
67.5°	4144.3	4118.9	4760.6	6024.3	8441.3	13015.4	17609.2	17928.7	17380.2	16916.6
70°	2134.4	2069.3	2470.8	3361.3	5306.2	9549.5	15325.0	15638.8	16161.8	15172.4
72.5°	995.1	981.0	1195.8	1653.8	2702.6	5614.4	11867.6	12093.8	13196.3	12792.0
75°	585.2	593.7	715.2	865.1	1317.4	2646.0	7875.9	8314.1	9509.9	9218.8
77.5°	438.2	438.2	508.9	602.1	768.9	1023.4	3887.1	4466.6	5560.7	5000.9
80°	322.3	327.9	390.1	452.3	534.3	528.6	1543.5	1809.3	2549.9	2179.6
82.5°	251.6	260.1	302.5	336.4	376.0	319.4	633.2	681.3	1048.8	834.0
85°	175.3	180.9	237.5	229.0	229.0	178.1	262.9	277.0	415.6	395.8
87.5°	42.4	48.1	115.9	127.2	96.1	53.7	82.0	93.3	149.8	172.4
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°
3242.5	0°	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5	3242.5
3299.1	2.5°	3256.7	3268.0	3316.0	3290.6	3304.7	3245.4	3293.4	3253.8	3287.8	3270.8
3324.5	5°	3347.1	3321.7	3350.0	3330.2	3330.2	3352.8	3386.7	3361.3	3412.2	3389.5
3344.3	7.5°	3383.9	3386.7	3403.7	3406.5	3392.4	3463.0	3465.9	3457.4	3505.4	3494.1
3480.0	10°	3474.3	3477.2	3508.3	3525.2	3511.1	3536.5	3508.3	3485.7	3482.8	3471.5
3587.4	12.5°	3618.5	3646.8	3641.1	3655.3	3658.1	3550.7	3485.7	3375.4	3361.3	3375.4
3745.7	15°	3751.4	3740.1	3745.7	3774.0	3655.3	3482.8	3366.9	3273.6	3279.3	3282.1
3952.1	17.5°	3909.7	3918.2	3926.7	3796.6	3578.9	3375.4	3273.6	3273.6	3245.4	3256.7
4096.3	20°	4090.6	4056.7	3983.2	3799.5	3446.1	3251.0	3219.9	3219.9	3186.0	3163.4
4251.8	22.5°	4232.0	4164.1	4053.9	3711.8	3327.3	3203.0	3126.6	3072.9	3033.3	2988.1
4424.2	25°	4322.4	4285.7	4070.8	3621.4	3239.7	3075.7	2962.7	2880.7	2829.8	2770.4
4559.9	27.5°	4461.0	4390.3	4118.9	3516.8	3143.6	2948.5	2773.3	2646.0	2549.9	2487.7
4766.3	30°	4647.5	4545.8	4085.0	3366.9	2996.6	2728.0	2521.7	2357.7	2247.4	2196.6
4961.3	32.5°	4800.2	4667.3	4056.7	3231.2	2832.6	2504.7	2230.5	2063.7	2001.5	1936.5
5289.3	35°	5091.4	4828.5	4036.9	3154.9	2685.6	2281.4	1993.0	1848.8	1769.7	1673.6
5484.3	37.5°	5314.7	5108.3	3988.9	2996.6	2496.2	2063.7	1812.1	1682.0	1563.3	1461.5
5936.6	40°	5665.3	5498.5	3991.7	2773.3	2272.9	1877.1	1670.7	1535.0	1385.2	1297.6
6606.6	42.5°	6323.9	5882.9	4008.6	2595.2	2021.3	1724.5	1543.5	1382.4	1232.6	1159.1
7369.9	45°	7132.5	6411.6	3904.0	2434.0	1764.0	1580.3	1390.9	1229.7	1133.6	1079.9
8407.4	47.5°	8062.5	6928.9	3762.7	2131.5	1549.2	1427.6	1249.5	1156.2	1085.6	1054.5
9744.6	50°	9102.8	7669.6	3723.1	1854.5	1382.4	1297.6	1181.7	1111.0	1062.9	1026.2
11251.3	52.5°	10442.8	8531.8	3644.0	1569.0	1238.2	1193.0	1156.2	1108.2	1065.8	1034.7
12656.4	55°	11723.5	9487.3	3559.2	1334.3	1136.4	1142.1	1161.9	1119.5	1082.7	1034.7
14231.0	57.5°	13165.2	10462.6	3245.4	1161.9	1060.1	1116.7	1156.2	1108.2	1071.4	1034.7
15842.4	60°	14055.7	11011.1	2631.9	1012.1	992.3	1068.6	1122.3	1071.4	1031.8	1046.0
16583.0	62.5°	14417.6	10722.7	1984.5	918.8	944.2	1003.6	1068.6	1048.8	1020.5	1074.2
16574.5	65°	13801.3	10058.4	1419.1	839.6	879.2	938.6	1020.5	1043.2	1051.6	1156.2
15223.2	67.5°	12280.4	8758.0	1043.2	774.6	811.3	899.0	1054.5	1091.2	1085.6	1215.6
12775.1	70°	9826.6	6849.8	814.2	720.9	785.9	930.1	1102.5	1102.5	1062.9	1215.6
9744.6	72.5°	7149.4	4828.5	701.1	658.7	720.9	853.7	1096.9	1094.0	1043.2	1111.0
6205.2	75°	4328.1	2810.0	619.1	596.5	619.1	732.2	1048.8	1031.8	961.2	955.5
2985.3	77.5°	2157.0	1413.5	506.0	528.6	540.0	613.5	921.6	947.0	850.9	828.3
1178.8	80°	910.3	616.3	421.2	455.1	455.1	517.3	766.1	783.1	706.7	664.3
466.5	82.5°	415.6	353.4	359.0	395.8	370.3	401.4	607.8	627.6	573.9	503.2
197.9	85°	175.3	200.7	274.2	311.0	274.2	260.1	418.4	441.0	373.2	311.0
84.8	87.5°	79.2	110.3	172.4	226.2	138.5	121.6	223.3	231.8	186.6	138.5
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>
3242.5
3239.7
3358.4
3477.2
3471.5
3381.1
3321.7
3259.5
3129.5
2962.7
2781.7
2516.0
2224.8
1933.6
1665.1
1464.4
1306.1
1164.7
1091.2
1048.8
1031.8
1031.8
1031.8
1031.8
1034.7
1060.1
1156.2
1224.1
1190.2
1071.4
944.2
814.2
650.2
491.9
313.8
130.0
0.0

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