

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: P477289

Luminaire Tested: **IFLD-L-SA8A-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

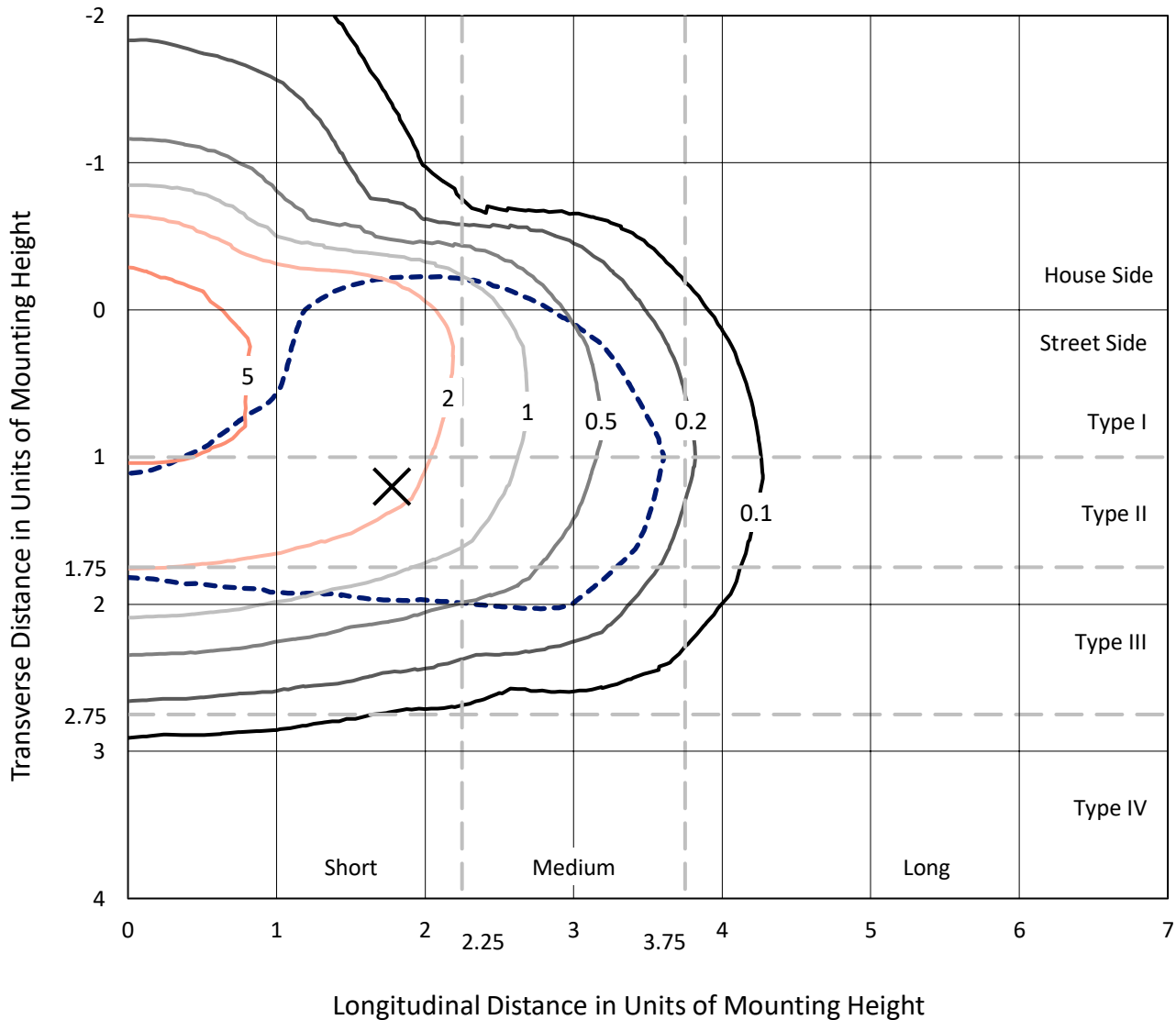
Lumens per Lamp: N/A
Luminaire Lumens: 29179.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

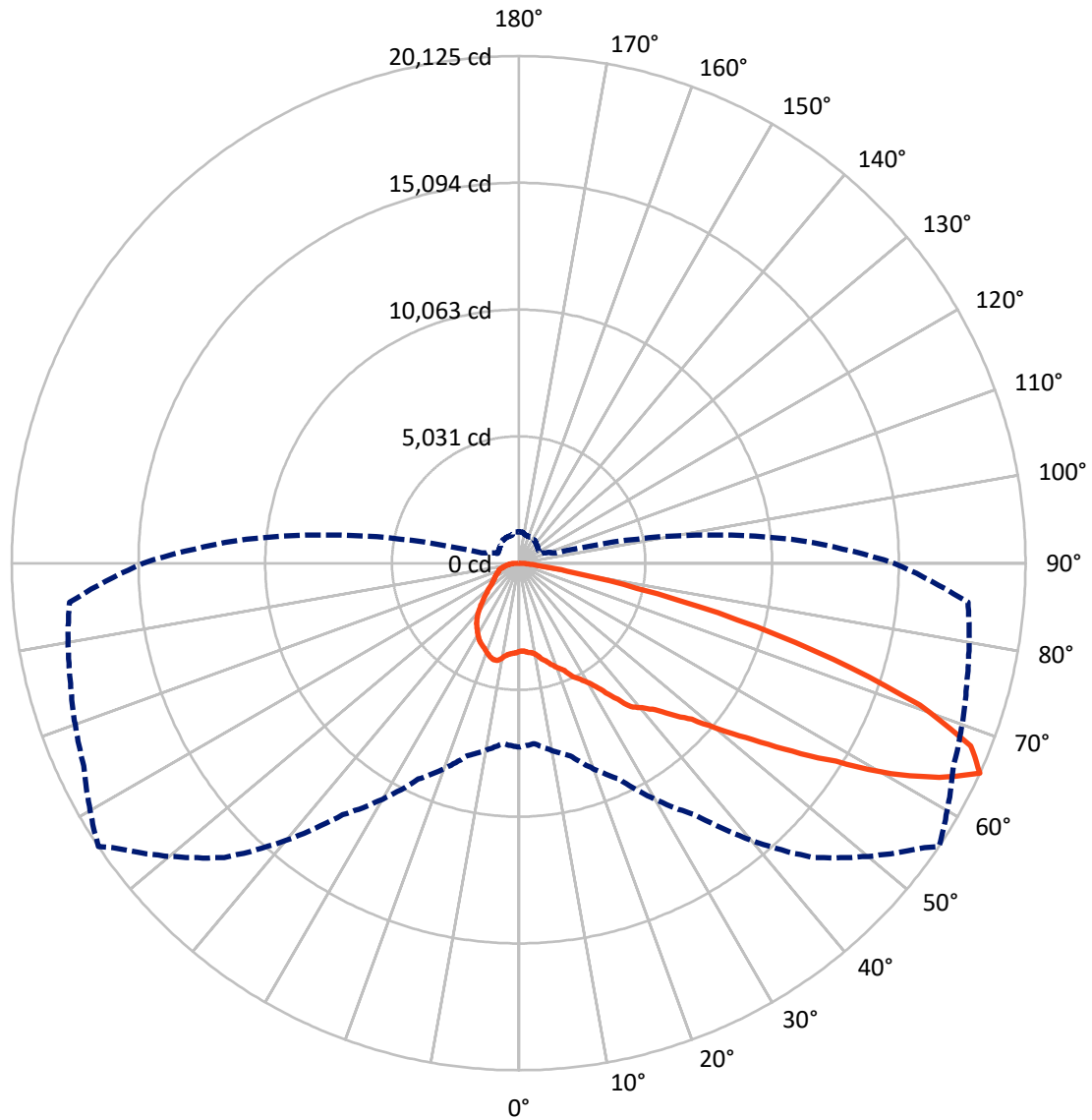
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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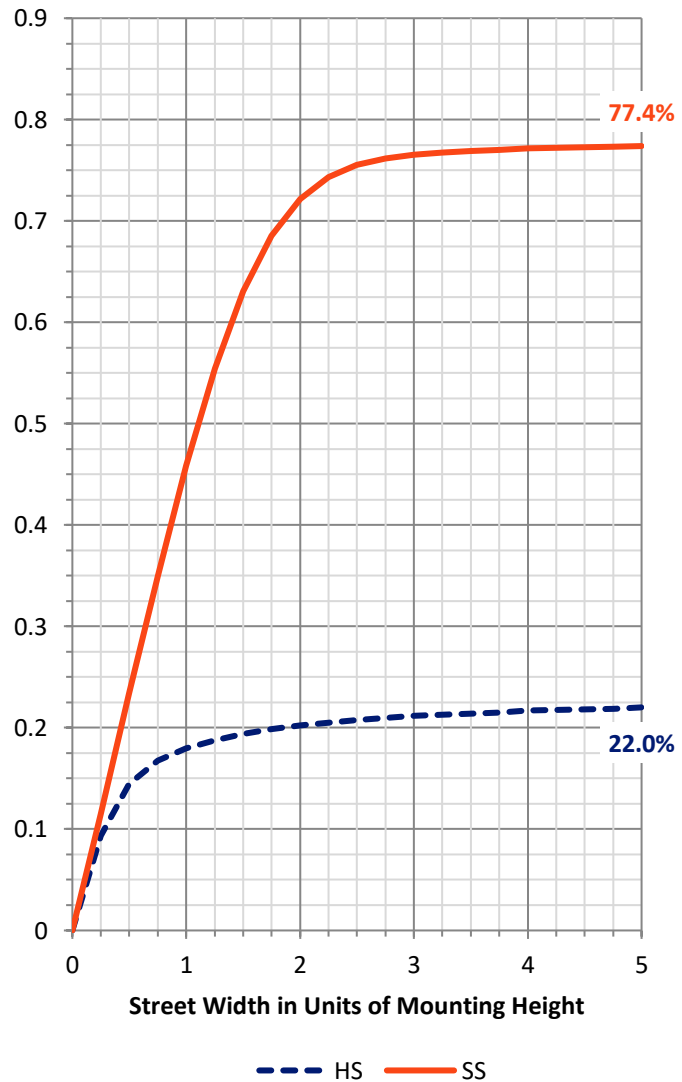
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6543.9	0.0	6543.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	22635.1	0.0	22635.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	29179.1	0.0	29179.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	1.2
10°-20°	1127.0	3.9
20°-30°	2006.7	6.9
30°-40°	3004.9	10.3
40°-50°	4452.1	15.3
50°-60°	6860.1	23.5
60°-70°	7766.5	26.6
70°-80°	3223.2	11.0
80°-90°	391.6	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°	29179.1	100.0
0°-180°	29179.1	100.0

Coefficient of Utilization



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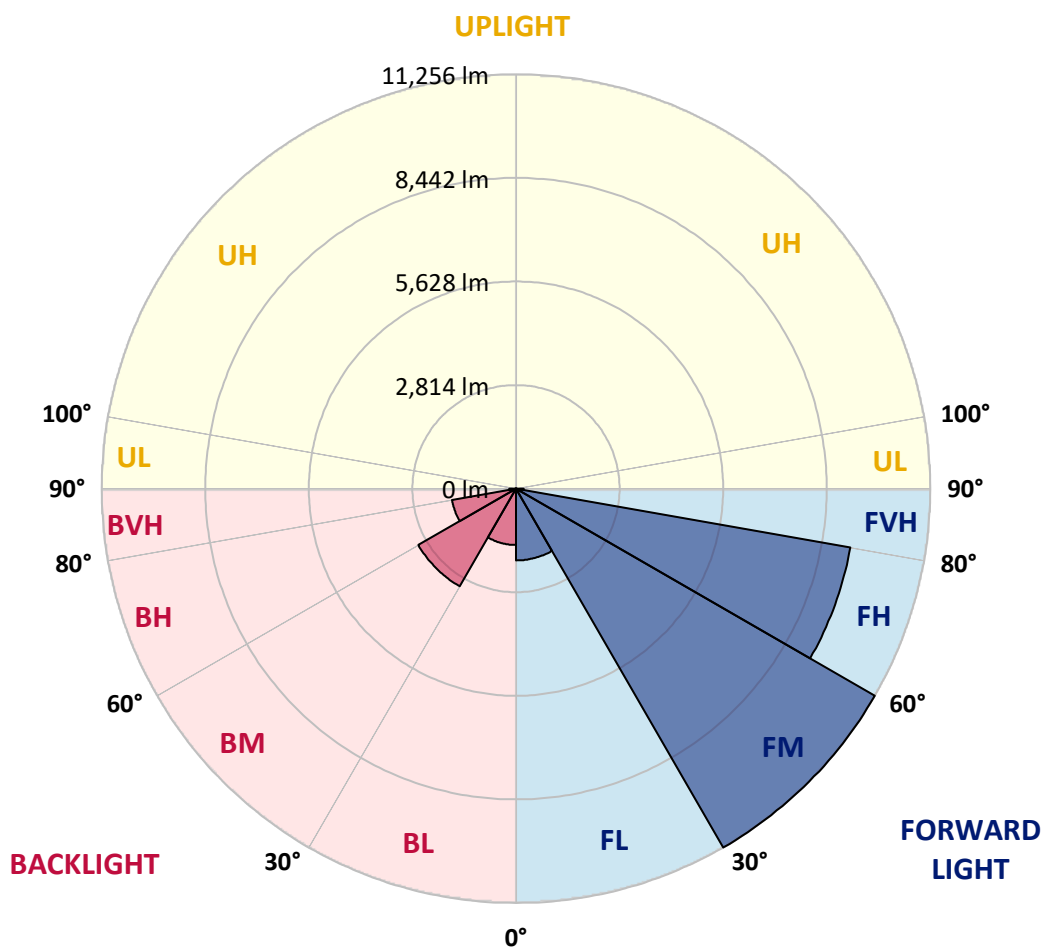
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.0	6.7			
FM (30°-60°)	11256.0	38.6			
FH (60°-80°)	9222.6	31.6			G4/12000
FVH (80°-90°)	206.5	0.7			G2/225
BL (0°-30°)	1530.7	5.2	B3/2500		
BM (30°-60°)	3061.1	10.5	B3/5000		
BH (60°-80°)	1767.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	185.0	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°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
2.5°	3410.7	3429.0	3416.8	3453.5	3484.0	3484.0	3508.4	3490.1	3514.5	3548.1
5°	3523.7	3450.4	3490.1	3508.4	3499.3	3514.5	3490.1	3551.2	3511.5	3575.6
7.5°	3551.2	3578.7	3612.2	3581.7	3609.2	3593.9	3597.0	3587.8	3566.4	3618.4
10°	3752.7	3713.0	3789.3	3743.5	3737.4	3731.3	3719.1	3673.3	3725.2	3728.3
12.5°	3984.8	3948.1	3945.1	3908.4	3957.3	3868.7	3887.1	3862.6	3871.8	3884.0
15°	4152.7	4137.4	4207.7	4164.9	4100.8	4061.1	4103.9	4036.7	4070.3	4064.2
17.5°	4485.5	4482.5	4430.6	4360.3	4323.7	4265.7	4256.5	4229.0	4253.5	4241.3
20°	4717.6	4751.2	4760.3	4677.9	4537.4	4473.3	4458.1	4436.7	4464.2	4455.0
22.5°	5071.8	5019.9	5059.6	4916.1	4864.2	4711.5	4656.5	4626.0	4757.3	4723.7
25°	5297.8	5352.7	5313.0	5264.2	5148.1	4958.8	4919.1	4986.3	5038.2	5001.6
27.5°	5807.7	5752.7	5716.1	5569.5	5493.2	5294.7	5248.9	5224.5	5236.7	5258.1
30°	6195.5	6226.0	6143.6	6039.7	5847.4	5645.9	5539.0	5517.6	5474.9	5438.2
32.5°	6748.2	6702.4	6653.5	6586.3	6421.4	6155.8	6052.0	5972.6	5844.3	5673.3
35°	7013.8	7145.1	7108.5	6928.3	6803.1	6702.4	6671.8	6549.7	6442.8	6174.1
37.5°	7456.6	7511.5	7459.6	7401.6	7343.6	7236.7	7200.1	7233.7	7023.0	6580.2
40°	7743.6	7859.6	7966.5	7804.7	7792.4	7813.8	7587.9	7548.2	7114.6	6882.5
42.5°	8329.8	8378.7	8400.1	8394.0	8464.2	8464.2	8033.7	7948.2	7639.8	7450.4
45°	9105.4	9145.1	9221.5	9276.4	9197.0	9236.7	8623.0	8589.4	8314.6	8277.9
47.5°	9777.2	9871.8	10042.8	10204.7	10308.5	10174.1	9502.4	9264.2	9194.0	9413.8
50°	10363.5	10250.5	10650.5	10815.4	11270.3	11493.2	10473.4	10378.7	10265.7	10687.1
52.5°	10421.5	10574.1	11139.0	11468.8	12406.2	12818.4	11664.2	11624.5	11487.1	11972.6
55°	10836.7	10818.4	11386.4	12100.9	13215.4	13908.5	13215.4	13191.0	12891.7	13352.8
57.5°	10766.5	10952.8	11401.6	12400.1	13945.2	15078.0	15013.9	14845.9	14427.6	14803.2
60°	10528.3	10577.2	11123.8	12391.0	14369.6	16278.0	16955.9	16989.5	16134.5	16433.7
62.5°	9178.7	9291.7	9984.8	11416.9	14067.3	17105.5	18852.1	18733.0	18049.0	17707.0
65°	7300.8	7187.9	7908.5	9456.6	12186.4	16519.2	19682.6	20125.4	19050.6	18424.6
67.5°	4476.4	4448.9	5142.0	6506.9	9117.6	14058.1	19020.0	19365.1	18772.7	18271.9
70°	2305.4	2235.1	2668.7	3630.6	5731.3	10314.6	16552.8	16891.8	17456.6	16387.9
72.5°	1074.8	1059.6	1291.6	1786.3	2919.1	6064.2	12818.4	13062.7	14253.6	13816.9
75°	632.1	641.2	772.5	934.4	1422.9	2858.0	8506.9	8980.2	10271.8	9957.3
77.5°	473.3	473.3	549.6	650.4	830.5	1105.4	4198.5	4824.5	6006.2	5401.6
80°	348.1	354.2	421.4	488.6	577.1	571.0	1667.2	1954.2	2754.2	2354.2
82.5°	271.8	280.9	326.7	363.4	406.1	345.0	684.0	735.9	1132.8	900.8
85°	189.3	195.4	256.5	247.3	247.3	192.4	284.0	299.2	448.9	427.5
87.5°	45.8	51.9	125.2	137.4	103.8	58.0	88.6	100.8	161.8	186.3
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°
3502.3	0°	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3	3502.3
3563.4	2.5°	3517.6	3529.8	3581.7	3554.2	3569.5	3505.4	3557.3	3514.5	3551.2	3532.9
3590.9	5°	3615.3	3587.8	3618.4	3597.0	3597.0	3621.4	3658.0	3630.6	3685.5	3661.1
3612.2	7.5°	3655.0	3658.0	3676.4	3679.4	3664.2	3740.5	3743.5	3734.4	3786.3	3774.1
3758.8	10°	3752.7	3755.8	3789.3	3807.7	3792.4	3819.9	3789.3	3764.9	3761.9	3749.7
3874.8	12.5°	3908.4	3939.0	3932.9	3948.1	3951.2	3835.1	3764.9	3645.8	3630.6	3645.8
4045.8	15°	4051.9	4039.7	4045.8	4076.4	3948.1	3761.9	3636.7	3535.9	3542.0	3545.1
4268.7	17.5°	4222.9	4232.1	4241.3	4100.8	3865.7	3645.8	3535.9	3535.9	3505.4	3517.6
4424.5	20°	4418.4	4381.7	4302.3	4103.9	3722.2	3511.5	3477.9	3477.9	3441.3	3416.8
4592.4	22.5°	4571.0	4497.8	4378.7	4009.2	3593.9	3459.6	3377.1	3319.1	3276.4	3227.5
4778.7	25°	4668.7	4629.0	4397.0	3911.5	3499.3	3322.2	3200.0	3111.5	3056.5	2992.4
4925.2	27.5°	4818.4	4742.0	4448.9	3798.5	3395.5	3184.8	2995.4	2858.0	2754.2	2687.0
5148.1	30°	5019.9	4910.0	4412.3	3636.7	3236.7	2946.6	2723.7	2546.6	2427.5	2372.5
5358.8	32.5°	5184.8	5041.3	4381.7	3490.1	3059.6	2705.4	2409.2	2229.0	2161.9	2091.6
5713.0	35°	5499.3	5215.3	4360.3	3407.7	2900.8	2464.1	2152.7	1997.0	1911.5	1807.6
5923.7	37.5°	5740.5	5517.6	4308.4	3236.7	2696.2	2229.0	1957.3	1816.8	1688.6	1578.6
6412.3	40°	6119.1	5939.0	4311.5	2995.4	2455.0	2027.5	1804.6	1658.0	1496.2	1401.5
7135.9	42.5°	6830.6	6354.3	4329.8	2803.1	2183.2	1862.6	1667.2	1493.1	1331.3	1251.9
7960.4	45°	7703.9	6925.3	4216.8	2629.0	1905.4	1706.9	1502.3	1328.3	1224.4	1166.4
9081.0	47.5°	8708.5	7484.0	4064.2	2302.3	1673.3	1542.0	1349.6	1248.9	1172.5	1138.9
10525.3	50°	9832.1	8284.0	4021.4	2003.1	1493.1	1401.5	1276.3	1200.0	1148.1	1108.4
12152.8	52.5°	11279.5	9215.3	3935.9	1694.7	1337.4	1288.6	1248.9	1197.0	1151.2	1117.6
13670.4	55°	12662.7	10247.4	3844.3	1441.2	1227.5	1233.6	1255.0	1209.2	1169.5	1117.6
15371.1	57.5°	14220.0	11300.9	3505.4	1255.0	1145.0	1206.1	1248.9	1197.0	1157.3	1117.6
17111.6	60°	15181.8	11893.2	2842.8	1093.1	1071.8	1154.2	1212.2	1157.3	1114.5	1129.8
17911.6	62.5°	15572.7	11581.8	2143.5	992.4	1019.9	1084.0	1154.2	1132.8	1102.3	1160.3
17902.5	65°	14907.0	10864.2	1532.8	906.9	949.6	1013.7	1102.3	1126.7	1135.9	1248.9
16442.9	67.5°	13264.2	9459.6	1126.7	836.6	876.3	971.0	1138.9	1178.6	1172.5	1313.0
13798.6	70°	10613.8	7398.5	879.4	778.6	848.9	1004.6	1190.9	1190.9	1148.1	1313.0
10525.3	72.5°	7722.2	5215.3	757.3	711.5	778.6	922.1	1184.7	1181.7	1126.7	1200.0
6702.4	75°	4674.9	3035.1	668.7	644.3	668.7	790.8	1132.8	1114.5	1038.2	1032.1
3224.5	77.5°	2329.8	1526.7	546.6	571.0	583.2	662.6	995.4	1022.9	919.1	894.7
1273.3	80°	983.2	665.7	455.0	491.6	491.6	558.8	827.5	845.8	763.4	717.6
503.8	82.5°	448.9	381.7	387.8	427.5	400.0	433.6	656.5	677.9	619.9	543.5
213.7	85°	189.3	216.8	296.2	335.9	296.2	280.9	451.9	476.3	403.1	335.9
91.6	87.5°	85.5	119.1	186.3	244.3	149.6	131.3	241.2	250.4	201.5	149.6
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>
3502.3
3499.3
3627.5
3755.8
3749.7
3651.9
3587.8
3520.6
3380.2
3200.0
3004.6
2717.6
2403.1
2088.6
1798.5
1581.7
1410.7
1258.0
1178.6
1132.8
1114.5
1114.5
1114.5
1114.5
1117.6
1145.0
1248.9
1322.1
1285.5
1157.3
1019.9
879.4
702.3
531.3
338.9
140.5
0.0

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