

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: P477522

Luminaire Tested: **IFLD-L-SA7E-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477522
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-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

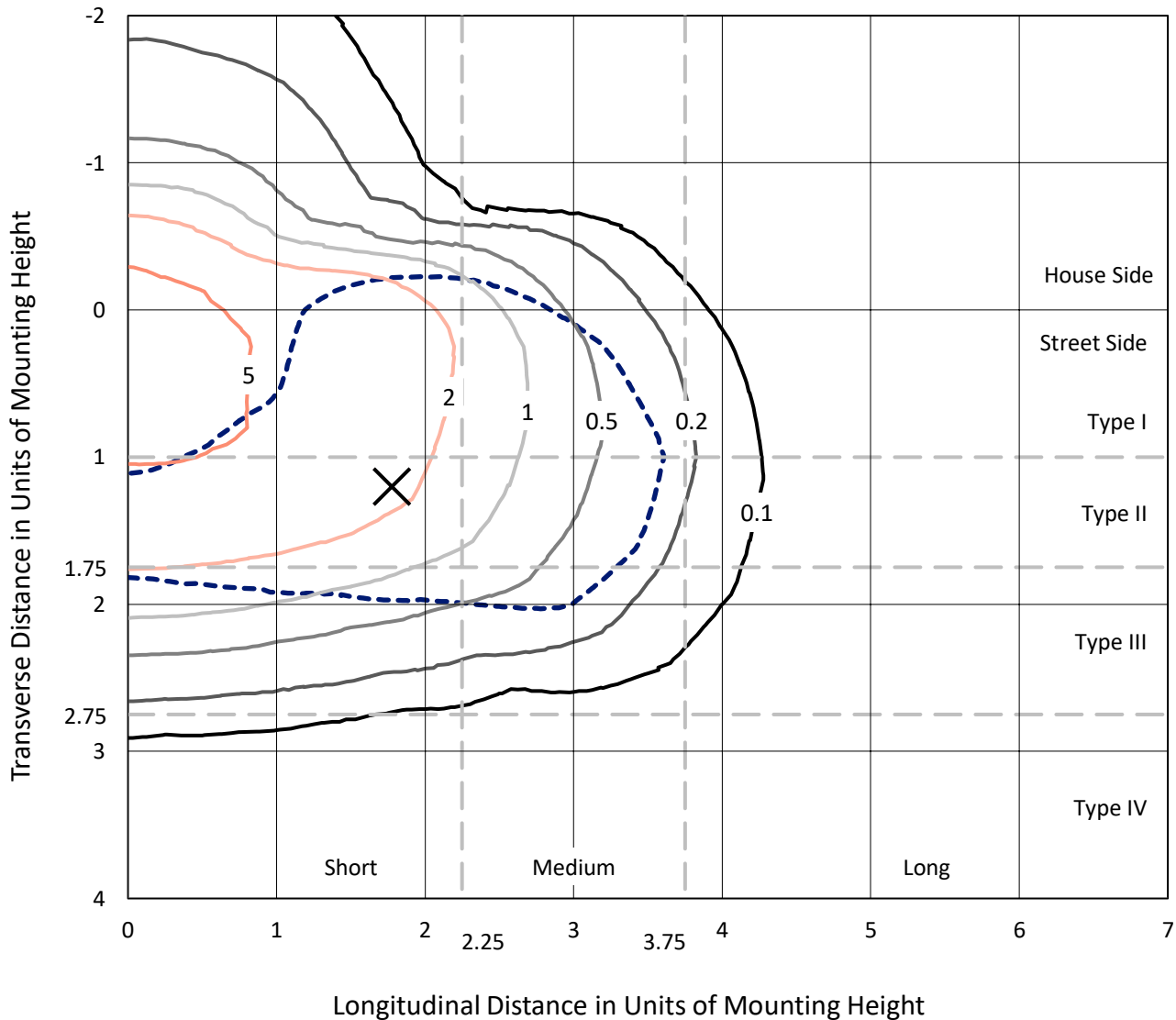
Lumens per Lamp: N/A
Luminaire Lumens: 42266 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

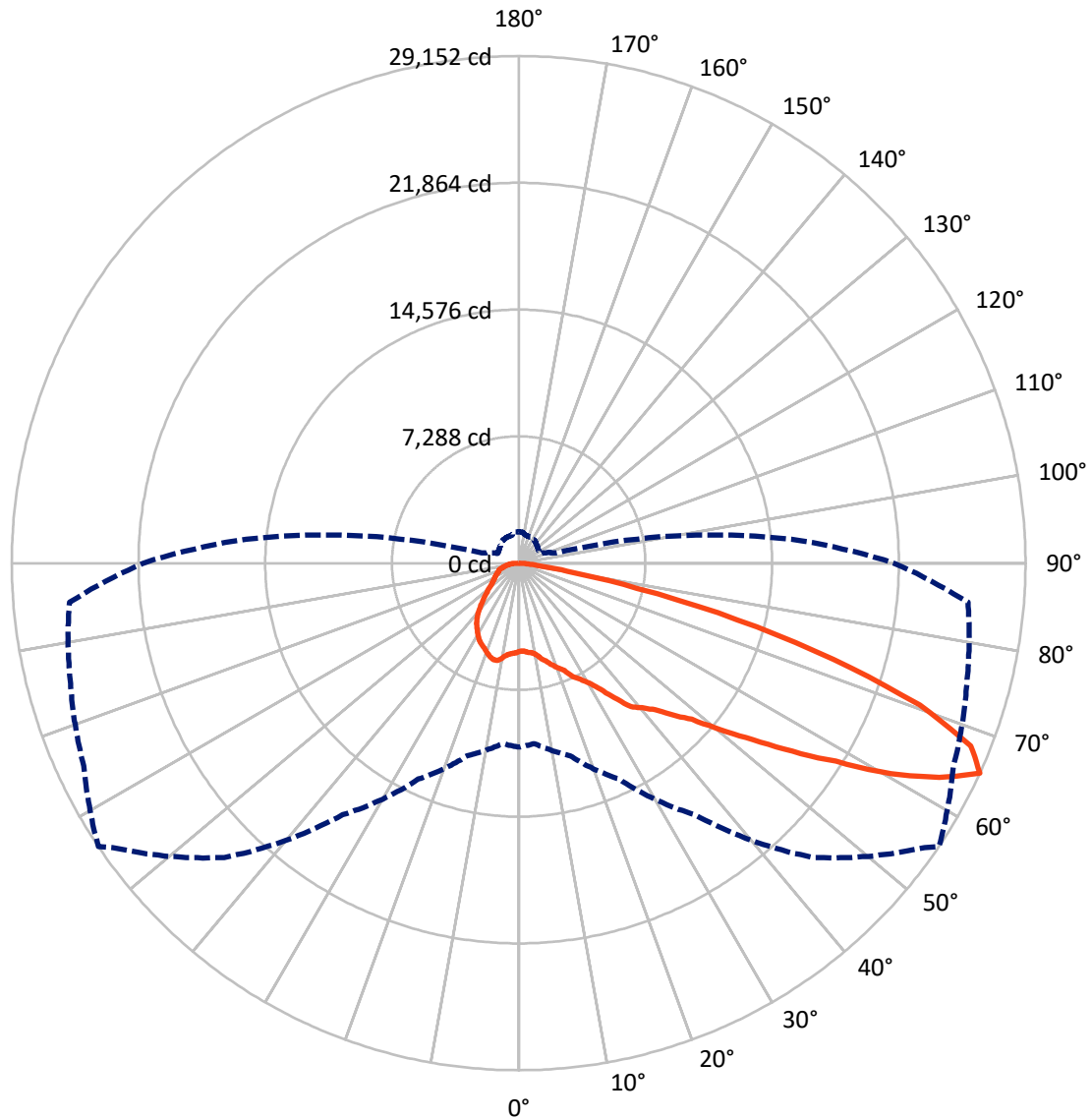
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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	9478.9	0.0	9478.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	32787.1	0.0	32787.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	42266.0	0.0	42266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	1.2
10°-20°	1632.4	3.9
20°-30°	2906.6	6.9
30°-40°	4352.6	10.3
40°-50°	6448.9	15.3
50°-60°	9936.9	23.5
60°-70°	11249.8	26.6
70°-80°	4668.8	11.0
80°-90°	567.2	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°	42266.0	100.0
0°-180°	42266.0	100.0

Coefficient of Utilization



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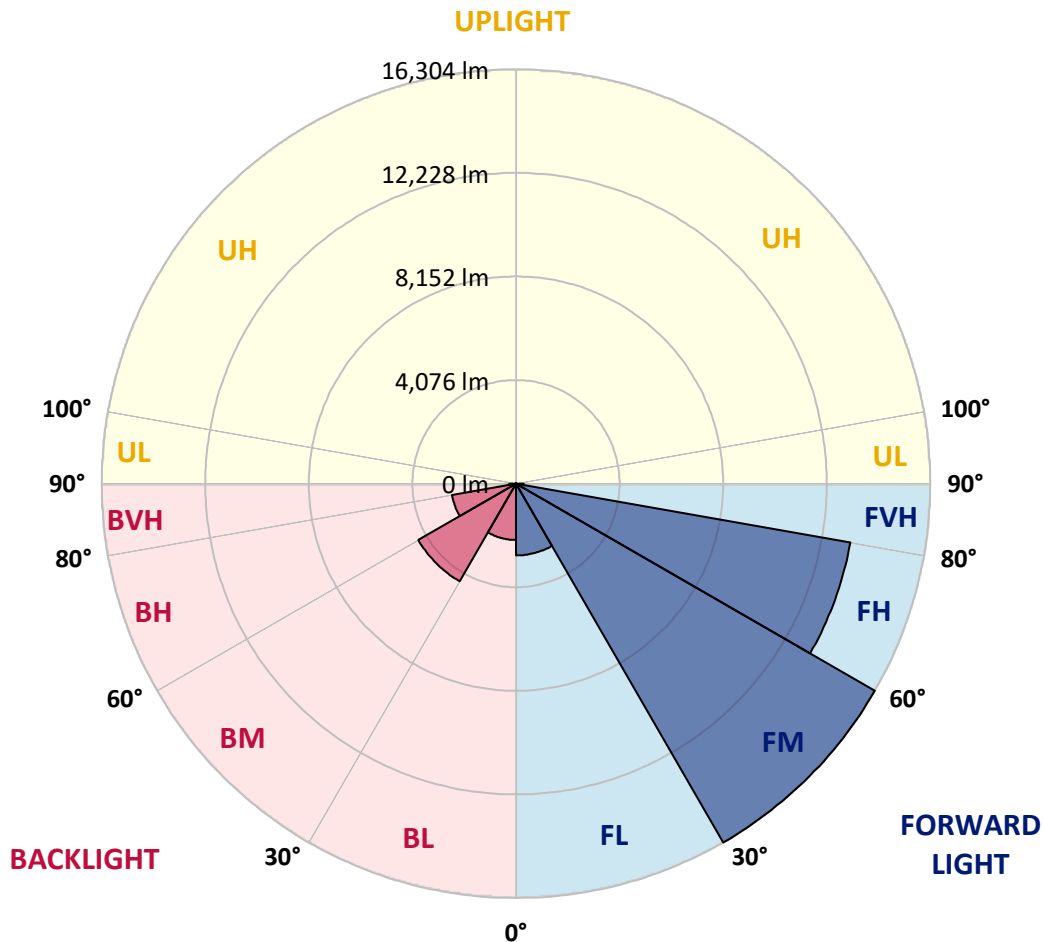
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2824.6	6.7			
FM (30°-60°)	16304.4	38.6			
FH (60°-80°)	13358.9	31.6			G5
FVH (80°-90°)	299.2	0.7			G3/500
BL (0°-30°)	2217.2	5.2	B3/2500		
BM (30°-60°)	4434.1	10.5	B3/5000		
BH (60°-80°)	2559.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	268.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1
2.5°	4940.4	4967.0	4949.3	5002.4	5046.6	5046.6	5082.0	5055.4	5090.8	5139.5
5°	5104.1	4997.9	5055.4	5082.0	5068.7	5090.8	5055.4	5143.9	5086.4	5179.3
7.5°	5143.9	5183.7	5232.4	5188.1	5227.9	5205.8	5210.2	5197.0	5166.0	5241.2
10°	5435.8	5378.3	5488.9	5422.5	5413.7	5404.8	5387.2	5320.8	5396.0	5400.4
12.5°	5772.0	5718.9	5714.5	5661.4	5732.1	5603.9	5630.4	5595.0	5608.3	5626.0
15°	6015.2	5993.1	6094.8	6032.9	5940.0	5882.5	5944.4	5847.1	5895.8	5886.9
17.5°	6497.3	6492.9	6417.7	6316.0	6262.9	6178.9	6165.6	6125.8	6161.2	6143.5
20°	6833.5	6882.1	6895.4	6776.0	6572.5	6479.6	6457.5	6426.5	6466.4	6453.1
22.5°	7346.5	7271.3	7328.8	7121.0	7045.8	6824.6	6745.0	6700.8	6891.0	6842.3
25°	7673.8	7753.4	7695.9	7625.2	7457.1	7182.9	7125.4	7222.7	7297.9	7244.8
27.5°	8412.5	8332.8	8279.8	8067.5	7956.9	7669.4	7603.1	7567.7	7585.4	7616.3
30°	8974.2	9018.4	8899.0	8748.6	8470.0	8178.0	8023.2	7992.3	7930.4	7877.3
32.5°	9774.7	9708.4	9637.6	9540.3	9301.5	8916.7	8766.3	8651.3	8465.5	8217.8
35°	10159.5	10349.7	10296.6	10035.7	9854.3	9708.4	9664.2	9487.2	9332.4	8943.2
37.5°	10800.8	10880.5	10805.3	10721.2	10637.2	10482.4	10429.3	10478.0	10172.8	9531.5
40°	11216.6	11384.7	11539.5	11305.1	11287.4	11318.3	10991.0	10933.5	10305.5	9969.3
42.5°	12065.8	12136.6	12167.5	12158.7	12260.4	12260.4	11636.8	11512.9	11066.2	10792.0
45°	13189.2	13246.7	13357.3	13436.9	13321.9	13379.4	12490.4	12441.8	12043.7	11990.6
47.5°	14162.3	14299.4	14547.1	14781.5	14931.9	14737.3	13764.2	13419.2	13317.5	13636.0
50°	15011.5	14847.9	15427.3	15666.1	16325.1	16648.0	15170.7	15033.6	14870.0	15480.3
52.5°	15095.5	15316.7	16134.9	16612.6	17970.5	18567.6	16895.7	16838.2	16639.1	17342.4
55°	15697.1	15670.5	16493.2	17528.2	19142.5	20146.5	19142.5	19107.2	18673.7	19341.6
57.5°	15595.3	15865.1	16515.3	17961.6	20199.6	21840.5	21747.7	21504.4	20898.4	21442.5
60°	15250.3	15321.1	16112.8	17948.3	20814.4	23578.8	24560.7	24609.3	23370.9	23804.3
62.5°	13295.4	13459.0	14463.1	16537.4	20376.5	24777.4	27307.3	27134.8	26144.1	25648.7
65°	10575.3	10411.6	11455.4	13697.9	17652.0	23928.2	28510.4	29151.7	27594.8	26688.1
67.5°	6484.0	6444.2	7448.3	9425.3	13206.9	20363.3	27550.6	28050.4	27192.3	26466.9
70°	3339.3	3237.6	3865.7	5258.9	8301.9	14940.7	23976.8	24467.8	25286.0	23738.0
72.5°	1556.9	1534.8	1870.9	2587.4	4228.3	8784.0	18567.6	18921.4	20646.3	20013.9
75°	915.6	928.8	1119.0	1353.4	2061.1	4139.9	12322.3	13007.9	14878.8	14423.2
77.5°	685.6	685.6	796.1	942.1	1203.0	1601.1	6081.6	6988.3	8699.9	7824.2
80°	504.2	513.1	610.4	707.7	835.9	827.1	2414.9	2830.7	3989.5	3410.1
82.5°	393.6	406.9	473.3	526.3	588.3	499.8	990.7	1065.9	1640.9	1304.8
85°	274.2	283.1	371.5	358.3	358.3	278.6	411.3	433.4	650.2	619.2
87.5°	66.3	75.2	181.3	199.0	150.4	84.0	128.3	146.0	234.4	269.8
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°
5073.1	0°	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1	5073.1
5161.6	2.5°	5095.2	5112.9	5188.1	5148.3	5170.4	5077.5	5152.7	5090.8	5143.9	5117.4
5201.4	5°	5236.8	5197.0	5241.2	5210.2	5210.2	5245.6	5298.7	5258.9	5338.5	5303.1
5232.4	7.5°	5294.3	5298.7	5325.2	5329.7	5307.5	5418.1	5422.5	5409.3	5484.5	5466.8
5444.7	10°	5435.8	5440.2	5488.9	5515.4	5493.3	5533.1	5488.9	5453.5	5449.1	5431.4
5612.7	12.5°	5661.4	5705.6	5696.8	5718.9	5723.3	5555.2	5453.5	5281.0	5258.9	5281.0
5860.4	15°	5869.3	5851.6	5860.4	5904.6	5718.9	5449.1	5267.7	5121.8	5130.6	5135.0
6183.3	17.5°	6116.9	6130.2	6143.5	5940.0	5599.5	5281.0	5121.8	5121.8	5077.5	5095.2
6408.9	20°	6400.0	6346.9	6231.9	5944.4	5391.6	5086.4	5037.7	5037.7	4984.7	4949.3
6652.1	22.5°	6621.2	6515.0	6342.5	5807.3	5205.8	5011.2	4891.8	4807.7	4745.8	4675.1
6921.9	25°	6762.7	6705.2	6369.1	5665.8	5068.7	4812.2	4635.3	4507.0	4427.4	4334.5
7134.2	27.5°	6979.4	6868.8	6444.2	5502.2	4918.3	4613.1	4338.9	4139.9	3989.5	3892.2
7457.1	30°	7271.3	7112.1	6391.2	5267.7	4688.3	4268.1	3945.3	3688.7	3516.2	3436.6
7762.3	32.5°	7510.2	7302.3	6346.9	5055.4	4431.8	3918.7	3489.7	3228.8	3131.5	3029.7
8275.3	35°	7965.7	7554.4	6316.0	4936.0	4201.8	3569.3	3118.2	2892.6	2768.8	2618.4
8580.5	37.5°	8315.2	7992.3	6240.8	4688.3	3905.5	3228.8	2835.1	2631.7	2445.9	2286.7
9288.2	40°	8863.6	8602.6	6245.2	4338.9	3556.1	2936.8	2614.0	2401.7	2167.2	2030.1
10336.4	42.5°	9894.1	9204.2	6271.7	4060.3	3162.4	2698.0	2414.9	2162.8	1928.4	1813.4
11530.6	45°	11159.1	10031.3	6108.1	3808.2	2759.9	2472.4	2176.1	1924.0	1773.6	1689.6
13153.9	47.5°	12614.3	10840.7	5886.9	3334.9	2423.8	2233.6	1954.9	1809.0	1698.4	1649.8
15245.9	50°	14241.9	11999.5	5825.0	2901.5	2162.8	2030.1	1848.8	1738.2	1663.0	1605.5
17603.4	52.5°	16338.4	13348.5	5701.2	2454.7	1937.3	1866.5	1809.0	1733.8	1667.5	1618.8
19801.6	55°	18342.0	14843.4	5568.5	2087.6	1778.0	1786.9	1817.8	1751.5	1694.0	1618.8
22265.1	57.5°	20597.7	16369.3	5077.5	1817.8	1658.6	1747.1	1809.0	1733.8	1676.3	1618.8
24786.2	60°	21990.9	17227.4	4117.8	1583.4	1552.5	1671.9	1755.9	1676.3	1614.4	1636.5
25945.0	62.5°	22557.1	16776.3	3104.9	1437.5	1477.3	1570.1	1671.9	1640.9	1596.7	1680.7
25931.8	65°	21592.9	15736.9	2220.3	1313.6	1375.5	1468.4	1596.7	1632.1	1645.3	1809.0
23817.6	67.5°	19213.3	13702.3	1632.1	1211.9	1269.4	1406.5	1649.8	1707.3	1698.4	1901.9
19987.3	70°	15374.2	10716.8	1273.8	1127.9	1229.6	1455.2	1725.0	1725.0	1663.0	1901.9
15245.9	72.5°	11185.6	7554.4	1096.9	1030.5	1127.9	1335.7	1716.1	1711.7	1632.1	1738.2
9708.4	75°	6771.5	4396.4	968.6	933.2	968.6	1145.5	1640.9	1614.4	1503.8	1495.0
4670.6	77.5°	3374.7	2211.5	791.7	827.1	844.8	959.8	1441.9	1481.7	1331.3	1295.9
1844.4	80°	1424.2	964.2	659.0	712.1	712.1	809.4	1198.6	1225.2	1105.7	1039.4
729.8	82.5°	650.2	552.9	561.7	619.2	579.4	628.1	950.9	981.9	897.9	787.3
309.6	85°	274.2	314.0	429.0	486.5	429.0	406.9	654.6	690.0	583.8	486.5
132.7	87.5°	123.8	172.5	269.8	353.8	216.7	190.2	349.4	362.7	291.9	216.7
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>
5073.1
5068.7
5254.5
5440.2
5431.4
5289.9
5197.0
5099.7
4896.2
4635.3
4352.2
3936.4
3480.9
3025.3
2605.1
2291.1
2043.4
1822.3
1707.3
1640.9
1614.4
1614.4
1614.4
1614.4
1618.8
1658.6
1809.0
1915.1
1862.1
1676.3
1477.3
1273.8
1017.3
769.6
490.9
203.5
0.0

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