

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: P477706

Luminaire Tested: **IFLD-S-SA6D-730-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

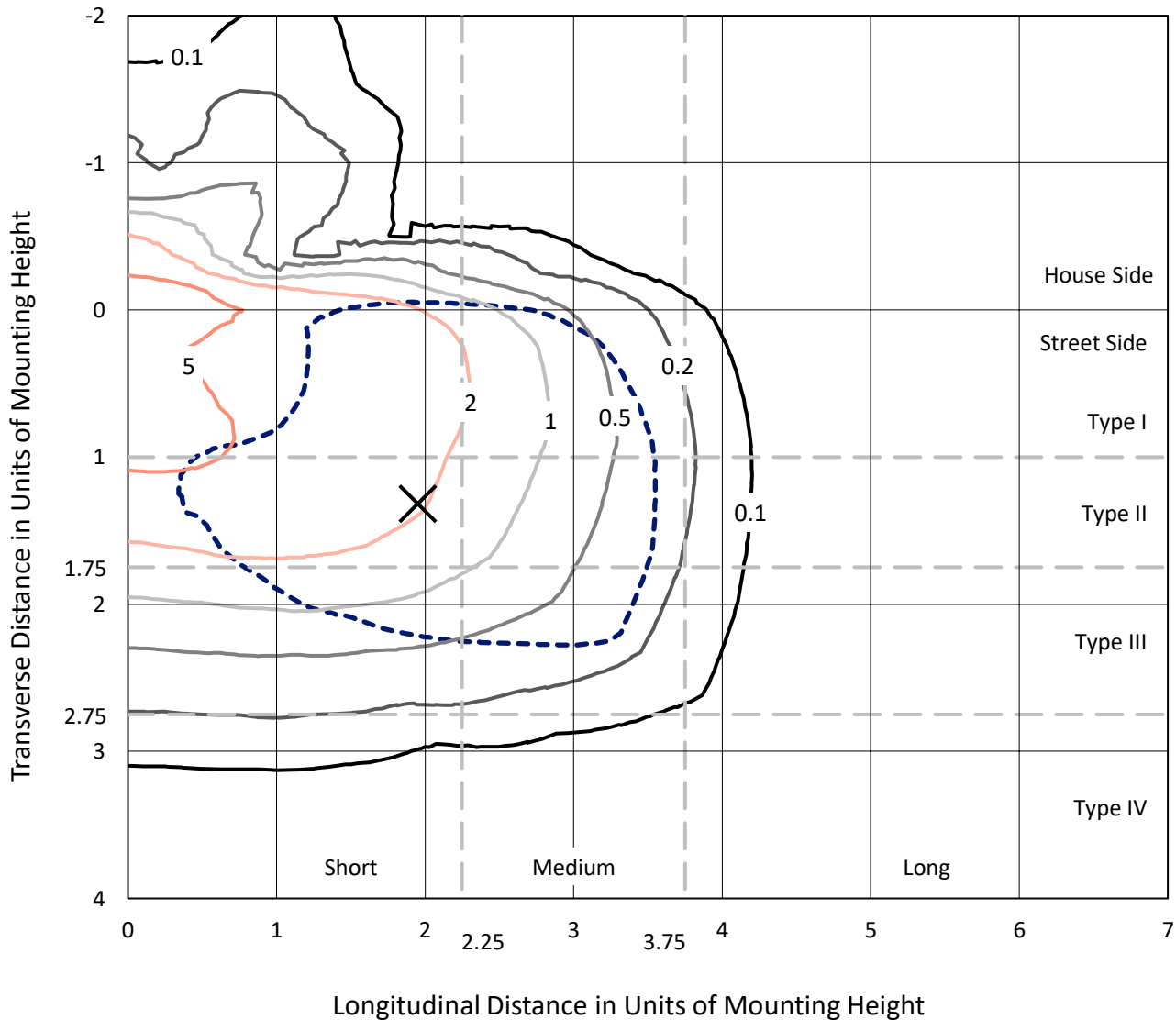
Lumens per Lamp: N/A
Luminaire Lumens: 40897.3 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

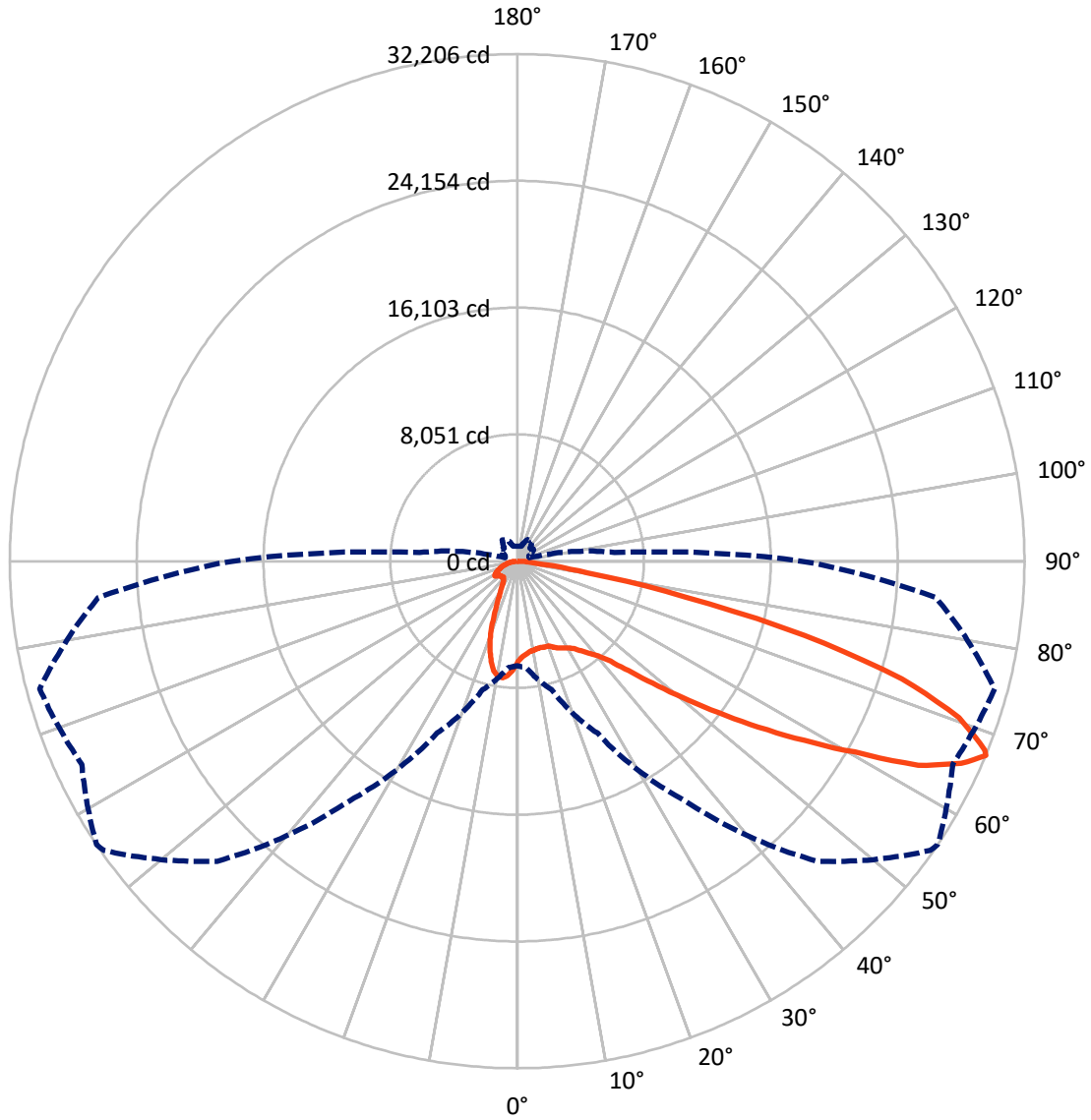
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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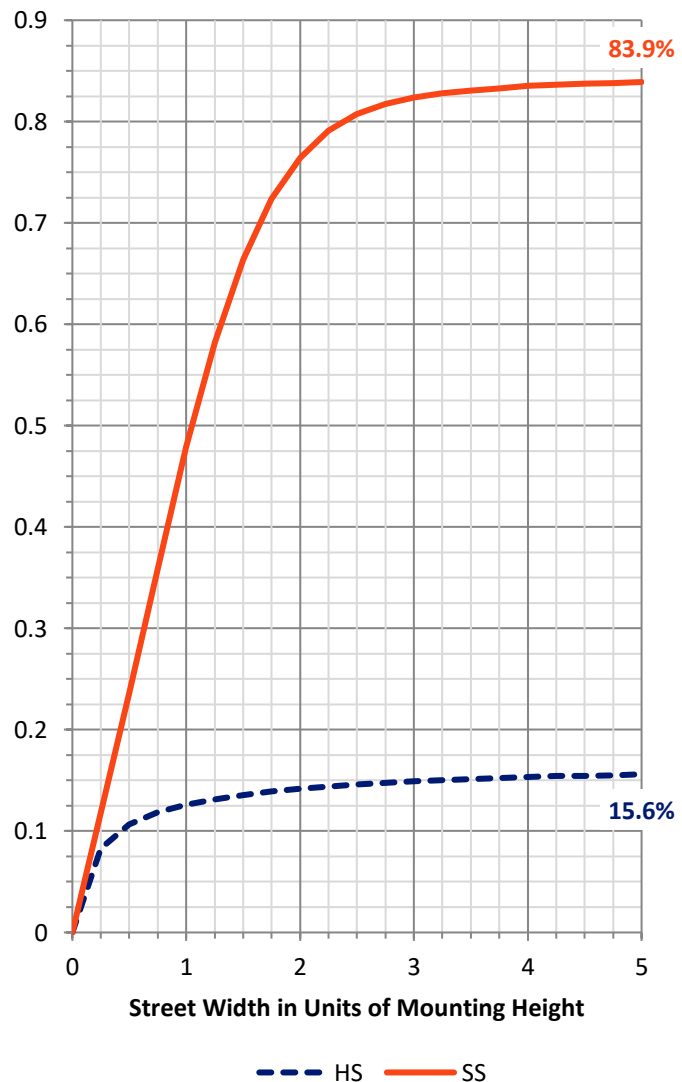
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6474.5	0.0	6474.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34422.8	0.0	34422.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	40897.3	0.0	40897.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	1.5
10°-20°	1672.5	4.1
20°-30°	2622.9	6.4
30°-40°	3744.2	9.2
40°-50°	5651.1	13.8
50°-60°	8995.6	22.0
60°-70°	11500.2	28.1
70°-80°	5607.1	13.7
80°-90°	490.5	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°	40897.3	100.0
0°-180°	40897.3	100.0

Coefficient of Utilization



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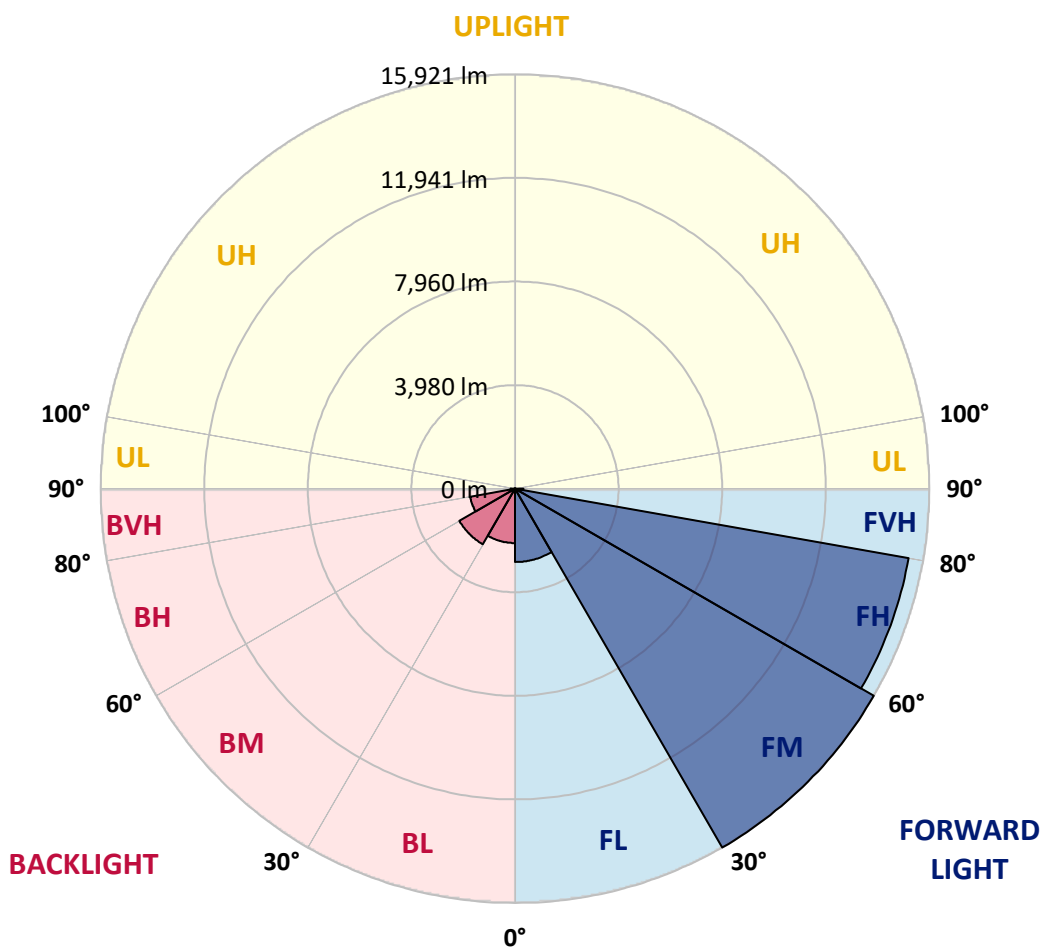
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2818.3	6.9			
FM (30°-60°)	15920.9	38.9			
FH (60°-80°)	15357.8	37.6			G5
FVH (80°-90°)	325.8	0.8			G3/500
BL (0°-30°)	2090.1	5.1	B3/2500		
BM (30°-60°)	2470.1	6.0	B2/2500		
BH (60°-80°)	1749.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	164.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5
2.5°	5845.6	5821.6	5850.4	5821.6	5951.1	6027.8	6051.8	6085.4	6205.3	6320.3
5°	5601.0	5495.5	5610.6	5649.0	5658.6	5788.1	5922.3	5946.3	6008.6	6195.7
7.5°	5193.4	5313.3	5270.2	5385.2	5505.1	5634.6	5855.2	5792.9	6023.0	6200.5
10°	5107.1	5116.7	5164.7	5207.8	5313.3	5481.1	5788.1	5749.7	5984.7	6363.5
12.5°	5193.4	5193.4	5179.0	5145.5	5265.4	5428.4	5673.0	5692.1	6061.4	6411.5
15°	5495.5	5553.1	5399.6	5423.6	5375.6	5428.4	5644.2	5687.4	6090.2	6449.8
17.5°	6234.0	6214.8	6032.6	5778.5	5567.5	5533.9	5682.6	5730.5	6061.4	6560.1
20°	6953.3	6915.0	6598.5	6334.7	5917.5	5720.9	5744.9	5749.7	6109.3	6632.0
22.5°	7754.2	7854.9	7509.6	6972.5	6454.6	5965.5	5869.6	5946.3	6219.6	6670.4
25°	9010.6	8794.8	8497.5	7792.5	6958.1	6344.3	6075.8	6114.1	6325.1	6766.3
27.5°	9916.9	9830.6	9365.4	8794.8	7663.1	6641.6	6186.1	6258.0	6517.0	6761.5
30°	10789.7	10789.7	10506.7	9653.2	8406.3	7140.4	6421.0	6387.5	6425.8	6751.9
32.5°	11811.1	11672.0	11264.4	10698.6	9341.5	7595.9	6608.1	6617.7	6617.7	6929.4
35°	12348.2	12573.6	12300.2	11379.5	10056.0	8353.6	7058.8	6986.9	6934.2	7126.0
37.5°	13134.6	13268.9	12981.2	12439.3	10943.1	8967.4	7456.9	7399.3	7092.4	7279.4
40°	13609.4	13585.4	13575.8	13326.4	12118.0	9691.5	8041.9	7893.2	7480.8	7821.3
42.5°	13877.9	13830.0	14419.8	14266.3	13225.7	10756.1	8775.6	8694.1	8238.5	8785.2
45°	14180.0	14534.9	15019.2	15450.8	14515.7	12252.3	10017.6	9902.5	9494.9	10190.2
47.5°	14443.8	14880.1	15498.8	15959.1	15681.0	13877.9	11552.1	11580.9	11312.4	12026.9
50°	14884.9	14928.1	15767.3	16697.6	16913.4	15378.9	13614.2	13566.2	13446.3	14448.6
52.5°	14750.7	14880.1	15939.9	17129.2	17484.0	16966.1	15829.6	15973.5	15815.2	17076.4
55°	12564.0	12952.4	15834.4	17584.8	18836.4	18759.6	18678.1	18582.2	18572.6	20030.4
57.5°	11571.3	11887.8	13949.8	18088.3	20284.6	20850.4	21377.9	21483.4	21478.6	23238.5
60°	10919.1	11245.2	13187.4	17814.9	21517.0	23588.6	24600.4	24614.8	24586.0	26667.3
62.5°	9643.6	9960.1	11868.6	16318.8	21857.5	26115.8	28369.6	28556.6	27237.9	29621.2
65°	8109.0	8368.0	10051.2	14031.4	20951.1	27722.2	31203.7	30983.1	29472.6	31309.2
67°	6632.0	6804.7	8444.7	12046.1	18582.2	26950.2	32023.7	32205.9	30503.6	31381.1
67.5°	6210.1	6368.3	7917.2	11369.9	17680.7	26365.1	32052.5	32023.7	30522.8	31395.5
70°	4311.1	4378.2	5394.8	7821.3	13024.3	22274.7	29712.3	29779.5	29242.4	29693.2
72.5°	2858.1	2958.8	3606.1	4929.7	7677.4	16208.5	24835.4	25554.7	25214.2	24346.3
75°	1841.4	1899.0	2359.3	2934.8	3778.8	9231.2	18347.2	18826.8	18045.1	15057.6
77.5°	1031.0	1093.4	1424.2	1783.9	1841.4	3841.1	10305.3	10900.0	9236.0	6397.1
80°	642.6	724.1	1074.2	1059.8	877.6	1409.8	4248.7	4550.8	3692.5	2201.1
82.5°	484.3	546.7	829.6	743.3	493.9	628.2	1592.1	1707.2	1352.3	848.8
85°	330.9	417.2	599.4	460.4	259.0	302.1	633.0	680.9	618.6	412.4
87.5°	119.9	177.4	311.7	230.2	115.1	91.1	206.2	230.2	220.6	187.0
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°
6363.5	0°	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5	6363.5
6421.0	2.5°	6512.2	6579.3	6612.9	6809.5	6891.0	6876.6	6895.8	6924.6	6953.3	6991.7
6502.6	5°	6564.9	6771.1	6881.4	7111.6	7265.0	7197.9	7284.2	7260.2	7226.7	7221.9
6651.2	7.5°	6737.5	7001.3	7332.2	7394.5	7461.7	7293.8	7150.0	6953.3	6905.4	6737.5
6775.9	10°	7044.5	7260.2	7663.1	7687.0	7389.7	6958.1	6636.8	6229.2	6224.4	5979.9
6967.7	12.5°	7337.0	7581.5	7907.6	7768.6	7058.8	6469.0	5946.3	5500.3	5313.3	5188.6
7082.8	15°	7519.2	7922.0	8094.6	7495.2	6478.6	5682.6	5006.4	4526.9	4335.0	4243.9
7226.7	17.5°	7687.0	8248.1	8171.4	7015.7	5764.1	4872.1	4066.5	3649.3	3596.6	3529.4
7456.9	20°	7917.2	8368.0	7898.0	6392.3	4953.7	3826.7	3313.6	3112.2	3160.2	3188.9
7480.8	22.5°	8133.0	8430.3	7552.8	5711.3	3913.1	3030.7	2776.5	2819.7	2891.6	2987.5
7538.4	25°	8228.9	8531.0	7087.6	4771.4	2977.9	2551.2	2493.6	2565.5	2685.4	2690.2
7619.9	27.5°	8291.3	8459.1	6526.5	3855.5	2354.5	2229.9	2316.2	2368.9	2383.3	2440.9
7792.5	30°	8401.6	8310.4	5816.8	2757.4	1975.7	1980.5	2090.8	2090.8	2090.8	2134.0
7965.2	32.5°	8593.4	8209.7	4987.2	2014.1	1702.4	1855.8	1827.0	1817.5	1798.3	1745.5
8185.8	35°	8713.3	7936.4	3937.0	1491.4	1529.7	1702.4	1692.8	1544.1	1294.8	1170.1
8746.8	37.5°	8962.6	7797.3	2896.4	1150.9	1429.0	1625.6	1572.9	1213.2	939.9	820.0
9442.2	40°	9499.7	7706.2	2004.5	1007.0	1361.9	1587.3	1405.1	1035.8	719.3	508.3
10516.3	42.5°	10156.7	7711.0	1361.9	949.5	1366.7	1668.8	1352.3	887.2	508.3	407.6
11950.2	45°	11039.0	7639.1	935.1	949.5	1453.0	1803.1	1385.9	805.6	493.9	517.9
13748.4	47.5°	11988.5	7701.4	695.3	863.2	1467.4	1807.9	1266.0	791.2	474.7	599.4
15705.0	50°	13096.3	7763.8	575.4	796.0	1472.2	1750.3	1165.3	772.1	493.9	633.0
17949.2	52.5°	14237.6	7960.4	489.1	752.9	1529.7	1726.3	1165.3	800.8	493.9	551.5
20807.3	55°	15939.9	8463.9	704.9	939.9	1740.7	1884.6	1433.8	1122.1	690.5	709.7
23545.4	57.5°	17819.7	8981.8	786.4	987.9	1788.7	1697.6	1544.1	1237.2	728.9	733.7
25674.6	60°	19056.9	9001.0	781.7	963.9	1673.6	1467.4	1510.6	1304.4	743.3	628.2
26993.3	62.5°	19550.9	8415.9	815.2	963.9	1558.5	1371.5	1548.9	1405.1	767.3	786.4
27367.4	65°	18989.8	7207.5	786.4	863.2	1371.5	1227.6	1558.5	1424.2	839.2	791.2
26696.0	67°	18112.2	6210.1	800.8	820.0	1275.6	1165.3	1640.0	1496.2	973.5	949.5
26346.0	67.5°	17862.9	5946.3	796.0	796.0	1242.0	1146.1	1659.2	1496.2	992.6	983.1
23252.9	70°	15743.3	4819.4	815.2	786.4	1098.1	1088.6	1764.7	1577.7	1141.3	1150.9
17081.2	72.5°	11983.7	3654.1	810.4	786.4	954.3	1040.6	1779.1	1630.4	1242.0	1150.9
9566.8	75°	6809.5	2186.7	714.5	685.7	752.9	906.3	1664.0	1553.7	1208.4	1031.0
3821.9	77.5°	2814.9	1126.9	657.0	618.6	623.4	738.5	1385.9	1448.2	1150.9	877.6
1275.6	80°	1050.2	676.2	527.5	493.9	479.5	541.9	987.9	1155.7	983.1	719.3
561.1	82.5°	546.7	422.0	359.7	359.7	326.1	345.3	532.3	767.3	743.3	493.9
225.4	85°	278.1	239.8	206.2	201.4	182.2	163.0	268.5	455.6	426.8	273.3
100.7	87.5°	148.7	134.3	86.3	81.5	67.1	43.2	48.0	91.1	148.7	119.9
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>
6363.5
7030.1
7265.0
6795.1
5970.3
5159.9
4224.8
3563.0
3155.4
2934.8
2738.2
2493.6
2181.9
1716.8
1227.6
815.2
493.9
398.0
527.5
666.6
733.7
565.9
748.1
709.7
647.4
796.0
776.9
935.1
963.9
1064.6
1021.4
920.7
829.6
657.0
388.4
225.4
86.3
0.0

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