

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: P477330

Luminaire Tested: **IFLD-L-SA8C-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477330
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

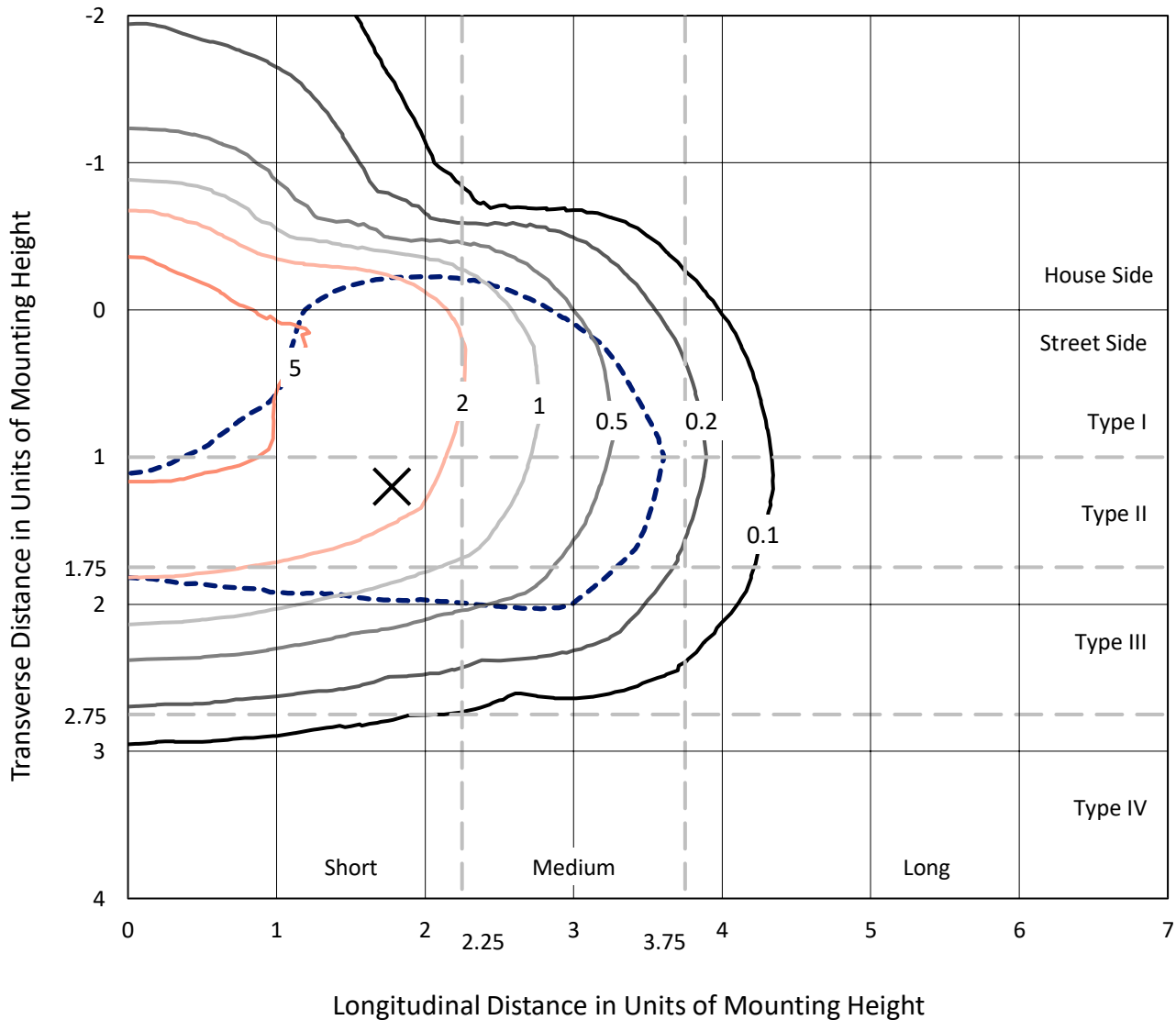
Lumens per Lamp: N/A
Luminaire Lumens: 46989.1 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

REPORT NUMBER: P477330
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

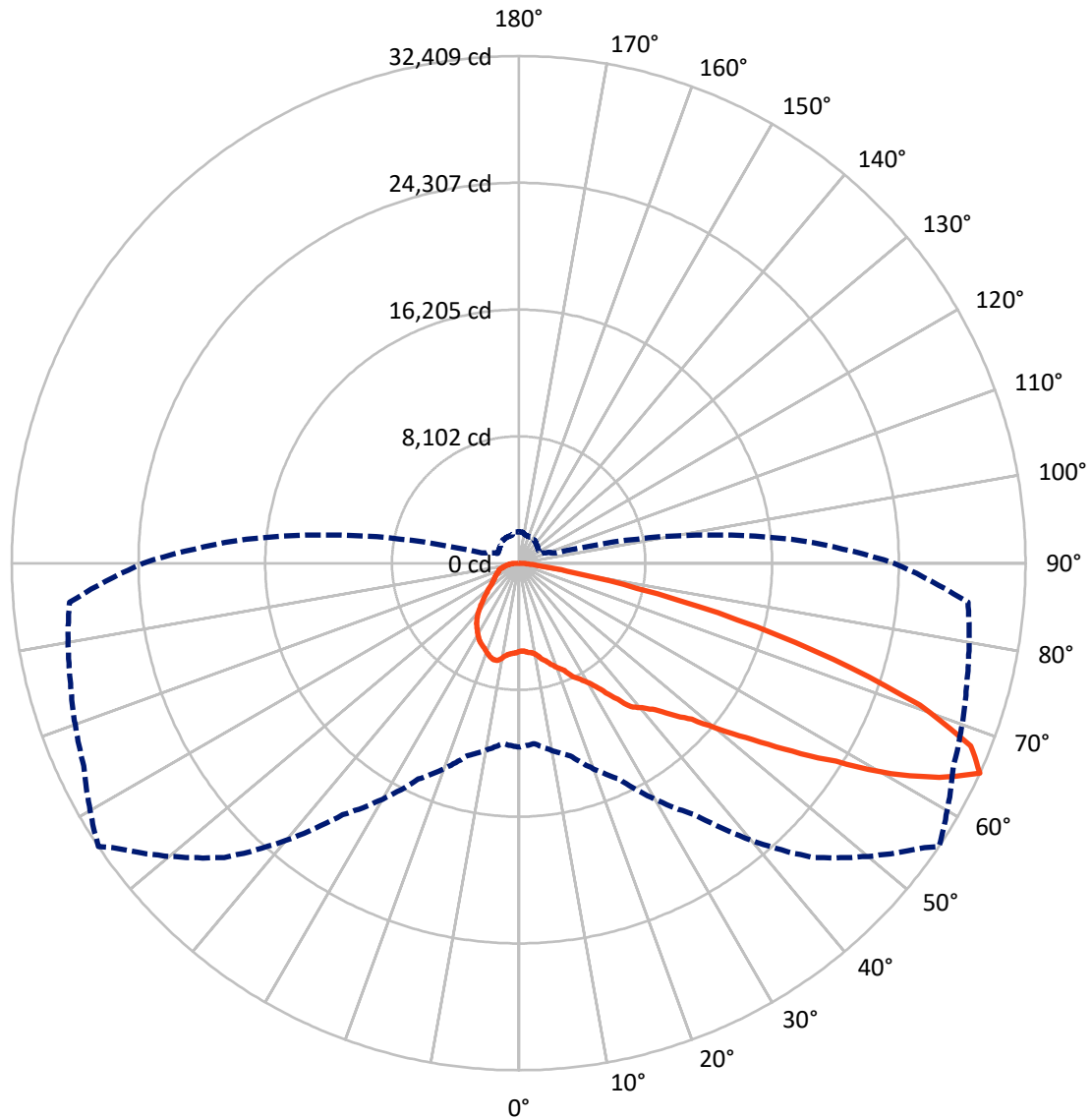
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P477330
CATALOG NUMBER: IFLD-L-SA8C-730-U-T3

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	10538.1	0.0	10538.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	36450.9	0.0	36450.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	46989.1	0.0	46989.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.9	1.2
10°-20°	1814.9	3.9
20°-30°	3231.4	6.9
30°-40°	4839.0	10.3
40°-50°	7169.6	15.3
50°-60°	11047.3	23.5
60°-70°	12506.9	26.6
70°-80°	5190.5	11.0
80°-90°	630.6	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°	46989.1	100.0
0°-180°	46989.1	100.0

Coefficient of Utilization

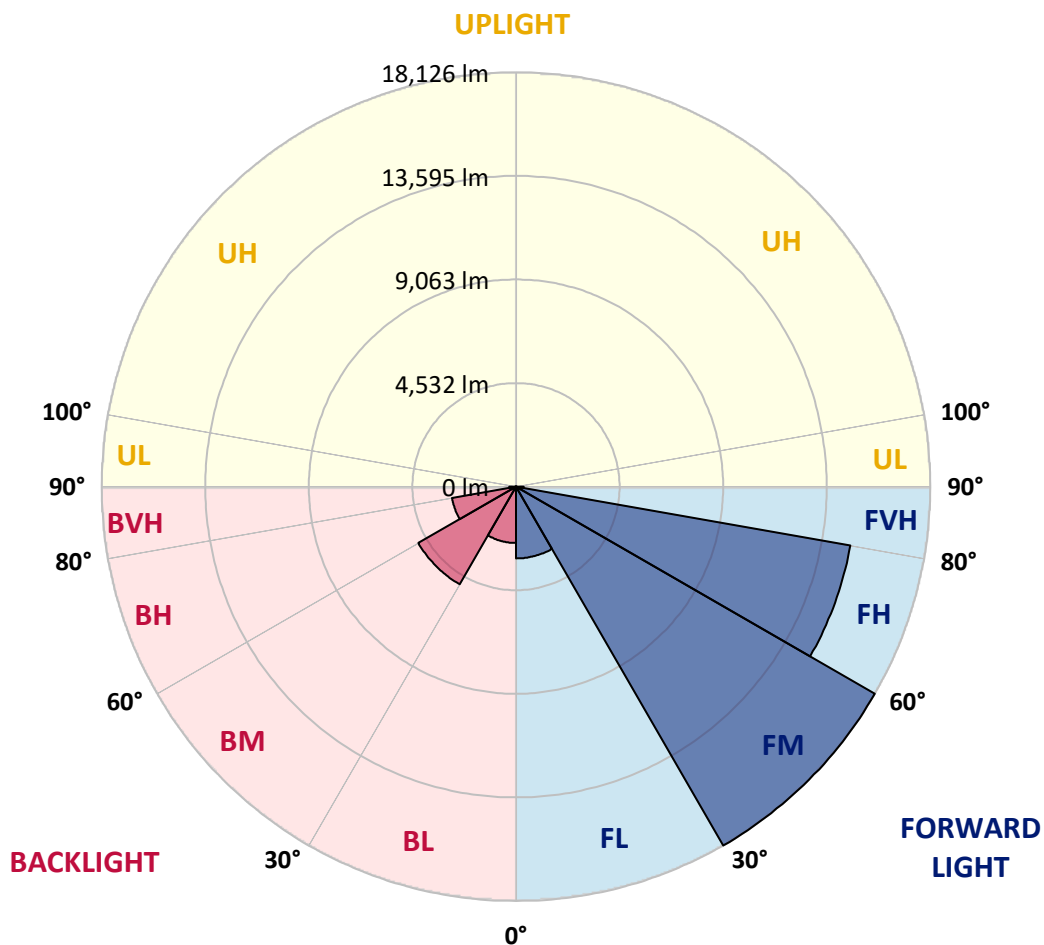


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3140.2	6.7			
FM (30°-60°)	18126.3	38.6			
FH (60°-80°)	14851.8	31.6			G5
FVH (80°-90°)	332.6	0.7			G3/500
BL (0°-30°)	2465.0	5.2	B3/2500		
BM (30°-60°)	4929.5	10.5	B3/5000		
BH (60°-80°)	2845.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	298.0	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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 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0
2.5°	5492.5	5522.0	5502.3	5561.4	5610.5	5610.5	5649.9	5620.4	5659.7	5713.8
5°	5674.4	5556.4	5620.4	5649.9	5635.1	5659.7	5620.4	5718.7	5654.8	5758.0
7.5°	5718.7	5763.0	5817.0	5767.9	5812.1	5787.5	5792.5	5777.7	5743.3	5826.9
10°	6043.2	5979.3	6102.2	6028.5	6018.7	6008.8	5989.1	5915.4	5999.0	6003.9
12.5°	6416.9	6357.9	6353.0	6294.0	6372.7	6230.1	6259.6	6220.3	6235.0	6254.7
15°	6687.4	6662.8	6775.9	6707.1	6603.8	6539.9	6608.7	6500.5	6554.6	6544.8
17.5°	7223.4	7218.4	7134.9	7021.8	6962.8	6869.3	6854.6	6810.3	6849.7	6830.0
20°	7597.1	7651.2	7665.9	7533.1	7307.0	7203.7	7179.1	7144.7	7188.9	7174.2
22.5°	8167.5	8083.9	8147.8	7916.7	7833.1	7587.2	7498.7	7449.6	7661.0	7606.9
25°	8531.3	8619.8	8555.9	8477.2	8290.4	7985.5	7921.6	8029.8	8113.4	8054.4
27.5°	9352.5	9264.0	9205.0	8969.0	8846.0	8526.4	8452.7	8413.3	8433.0	8467.4
30°	9977.0	10026.2	9893.4	9726.2	9416.4	9091.9	8919.8	8885.4	8816.5	8757.5
32.5°	10867.0	10793.3	10714.6	10606.4	10340.9	9913.1	9745.9	9618.0	9411.5	9136.2
35°	11294.8	11506.2	11447.2	11157.1	10955.5	10793.3	10744.1	10547.4	10375.3	9942.6
37.5°	12007.8	12096.3	12012.7	11919.3	11825.9	11653.8	11594.8	11648.8	11309.6	10596.6
40°	12470.0	12656.9	12829.0	12568.4	12548.7	12583.1	12219.2	12155.3	11457.1	11083.4
42.5°	13414.1	13492.8	13527.2	13517.4	13630.5	13630.5	12937.1	12799.5	12302.8	11998.0
45°	14663.1	14727.0	14849.9	14938.4	14810.6	14874.5	13886.2	13832.1	13389.5	13330.5
47.5°	15744.9	15897.3	16172.7	16433.3	16600.5	16384.1	15302.3	14918.8	14805.7	15159.7
50°	16689.0	16507.0	17151.2	17416.7	18149.4	18508.3	16866.0	16713.6	16531.6	17210.2
52.5°	16782.4	17028.3	17937.9	18469.0	19978.6	20642.4	18783.7	18719.8	18498.5	19280.3
55°	17451.1	17421.6	18336.2	19486.9	21281.6	22397.8	21281.6	21242.3	20760.4	21502.9
57.5°	17338.0	17638.0	18360.8	19968.7	22456.8	24281.1	24177.9	23907.4	23233.8	23838.6
60°	16954.5	17033.2	17913.4	19954.0	23140.3	26213.6	27305.2	27359.3	25982.5	26464.4
62.5°	14781.1	14963.0	16079.2	18385.4	22653.5	27546.1	30358.8	30167.0	29065.6	28514.8
65°	11757.0	11575.1	12735.5	15228.6	19624.5	26602.0	31696.3	32409.3	30678.4	29670.4
67.5°	7208.6	7164.4	8280.6	10478.5	14682.8	22638.8	30629.2	31184.9	30230.9	29424.5
70°	3712.5	3599.4	4297.6	5846.5	9229.6	16610.3	26656.1	27201.9	28111.6	26390.6
72.5°	1730.9	1706.3	2080.0	2876.6	4700.8	9765.6	20642.4	21035.8	22953.5	22250.3
75°	1017.9	1032.6	1244.1	1504.7	2291.4	4602.5	13699.3	14461.5	16541.5	16035.0
77.5°	762.2	762.2	885.1	1047.4	1337.5	1780.0	6761.1	7769.2	9672.1	8698.5
80°	560.6	570.4	678.6	786.8	929.4	919.5	2684.8	3147.0	4435.3	3791.2
82.5°	437.6	452.4	526.1	585.1	654.0	555.6	1101.5	1185.0	1824.3	1450.6
85°	304.9	314.7	413.0	398.3	398.3	309.8	457.3	481.9	722.8	688.4
87.5°	73.8	83.6	201.6	221.3	167.2	93.4	142.6	162.3	260.6	299.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477330
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5640.0	0°	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0
5738.4	2.5°	5664.6	5684.3	5767.9	5723.6	5748.2	5644.9	5728.5	5659.7	5718.7	5689.2
5782.6	5°	5822.0	5777.7	5826.9	5792.5	5792.5	5831.8	5890.8	5846.5	5935.1	5895.7
5817.0	7.5°	5885.9	5890.8	5920.3	5925.2	5900.6	6023.6	6028.5	6013.7	6097.3	6077.7
6053.1	10°	6043.2	6048.2	6102.2	6131.7	6107.2	6151.4	6102.2	6062.9	6058.0	6038.3
6239.9	12.5°	6294.0	6343.2	6333.4	6357.9	6362.9	6176.0	6062.9	5871.1	5846.5	5871.1
6515.3	15°	6525.1	6505.5	6515.3	6564.5	6357.9	6058.0	5856.4	5694.1	5704.0	5708.9
6874.2	17.5°	6800.5	6815.2	6830.0	6603.8	6225.2	5871.1	5694.1	5694.1	5644.9	5664.6
7125.0	20°	7115.2	7056.2	6928.3	6608.7	5994.1	5654.8	5600.7	5600.7	5541.7	5502.3
7395.5	22.5°	7361.0	7243.0	7051.3	6456.3	5787.5	5571.2	5438.4	5345.0	5276.2	5197.5
7695.4	25°	7518.4	7454.5	7080.8	6298.9	5635.1	5349.9	5153.2	5010.6	4922.1	4818.9
7931.4	27.5°	7759.3	7636.4	7164.4	6117.0	5467.9	5128.6	4823.8	4602.5	4435.3	4327.1
8290.4	30°	8083.9	7906.9	7105.4	5856.4	5212.2	4745.1	4386.1	4100.9	3909.2	3820.7
8629.7	32.5°	8349.4	8118.3	7056.2	5620.4	4927.0	4356.6	3879.7	3589.6	3481.4	3368.3
9200.1	35°	8855.9	8398.6	7021.8	5487.6	4671.3	3968.2	3466.6	3215.8	3078.2	2911.0
9539.4	37.5°	9244.3	8885.4	6938.2	5212.2	4341.9	3589.6	3151.9	2925.7	2719.2	2542.2
10326.1	40°	9854.1	9564.0	6943.1	4823.8	3953.4	3265.0	2906.1	2670.0	2409.4	2257.0
11491.5	42.5°	10999.8	10232.7	6972.6	4514.0	3515.8	2999.5	2684.8	2404.5	2143.9	2016.1
12819.1	45°	12406.1	11152.2	6790.7	4233.7	3068.3	2748.7	2419.3	2139.0	1971.8	1878.4
14623.7	47.5°	14023.8	12052.1	6544.8	3707.6	2694.6	2483.2	2173.4	2011.1	1888.2	1834.1
16949.6	50°	15833.4	13340.4	6476.0	3225.7	2404.5	2257.0	2055.4	1932.5	1848.9	1784.9
19570.4	52.5°	18164.1	14840.1	6338.3	2729.0	2153.7	2075.1	2011.1	1927.5	1853.8	1799.7
22014.3	55°	20391.6	16502.1	6190.8	2320.9	1976.7	1986.5	2021.0	1947.2	1883.3	1799.7
24753.2	57.5°	22899.4	18198.6	5644.9	2021.0	1843.9	1942.3	2011.1	1927.5	1863.6	1799.7
27556.0	60°	24448.3	19152.5	4577.9	1760.4	1725.9	1858.7	1952.1	1863.6	1794.8	1819.4
28844.3	62.5°	25077.7	18650.9	3451.9	1598.1	1642.3	1745.6	1858.7	1824.3	1775.1	1868.5
28829.5	65°	24005.8	17495.4	2468.4	1460.4	1529.2	1632.5	1775.1	1814.4	1829.2	2011.1
26479.1	67.5°	21360.3	15233.5	1814.4	1347.3	1411.2	1563.7	1834.1	1898.0	1888.2	2114.4
22220.8	70°	17092.2	11914.4	1416.2	1253.9	1367.0	1617.8	1917.7	1917.7	1848.9	2114.4
16949.6	72.5°	12435.6	8398.6	1219.5	1145.7	1253.9	1485.0	1907.9	1903.0	1814.4	1932.5
10793.3	75°	7528.2	4887.7	1076.9	1037.5	1076.9	1273.6	1824.3	1794.8	1671.8	1662.0
5192.6	77.5°	3751.8	2458.6	880.2	919.5	939.2	1067.0	1603.0	1647.3	1480.1	1440.7
2050.5	80°	1583.3	1071.9	732.7	791.7	791.7	899.8	1332.6	1362.1	1229.3	1155.5
811.3	82.5°	722.8	614.6	624.5	688.4	644.2	698.2	1057.2	1091.6	998.2	875.3
344.2	85°	304.9	349.1	477.0	540.9	477.0	452.4	727.7	767.1	649.1	540.9
147.5	87.5°	137.7	191.8	299.9	393.4	240.9	211.4	388.5	403.2	324.5	240.9
0.0	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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180°
5640.0
5635.1
5841.6
6048.2
6038.3
5881.0
5777.7
5669.5
5443.3
5153.2
4838.5
4376.3
3869.8
3363.4
2896.2
2547.1
2271.7
2025.9
1898.0
1824.3
1794.8
1794.8
1794.8
1794.8
1799.7
1843.9
2011.1
2129.1
2070.1
1863.6
1642.3
1416.2
1131.0
855.6
545.8
226.2
0.0

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