

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: P477278

Luminaire Tested: **IFLD-S-SA6E-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477278
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

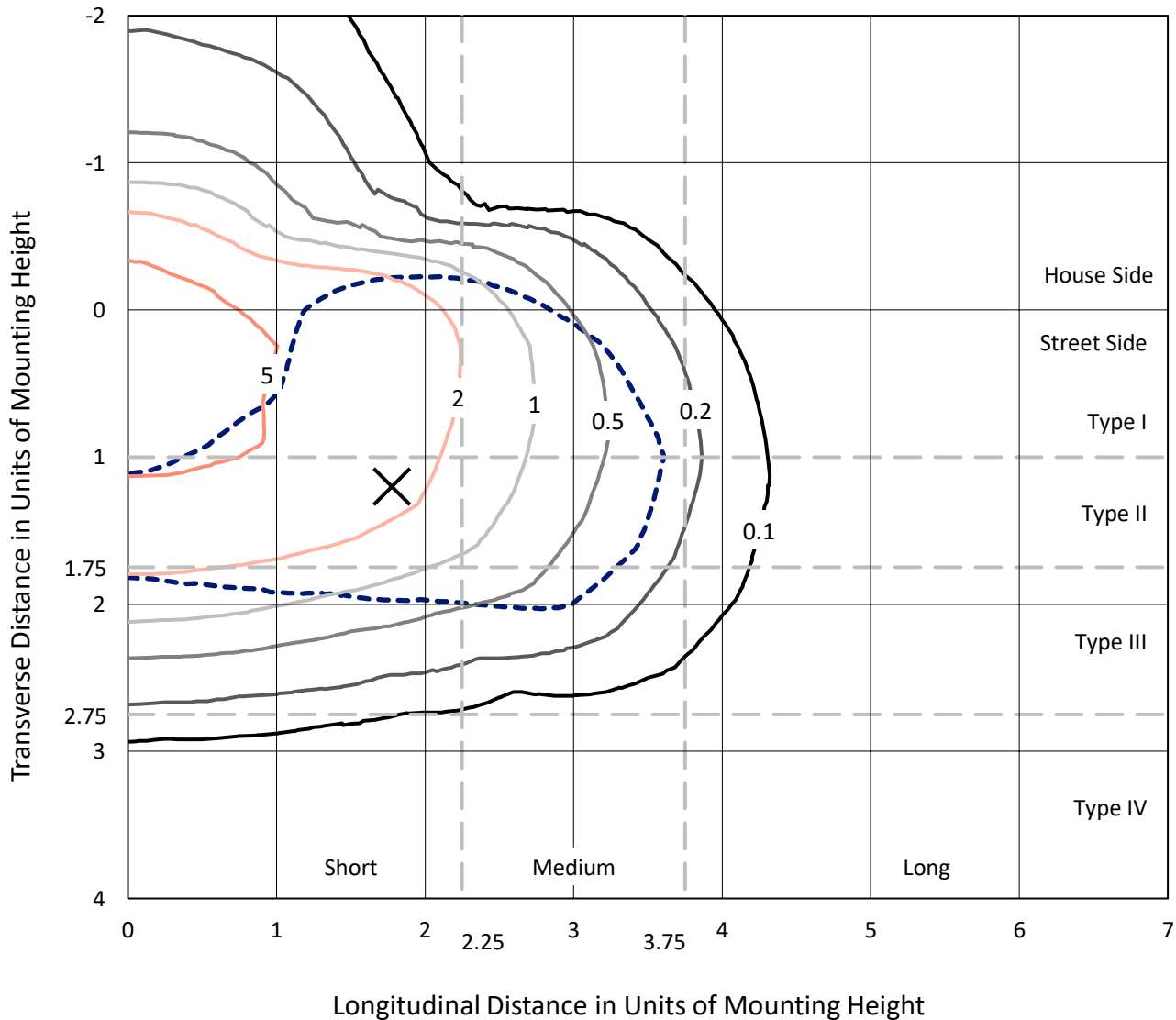
Lumens per Lamp: N/A
Luminaire Lumens: 45070.7 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

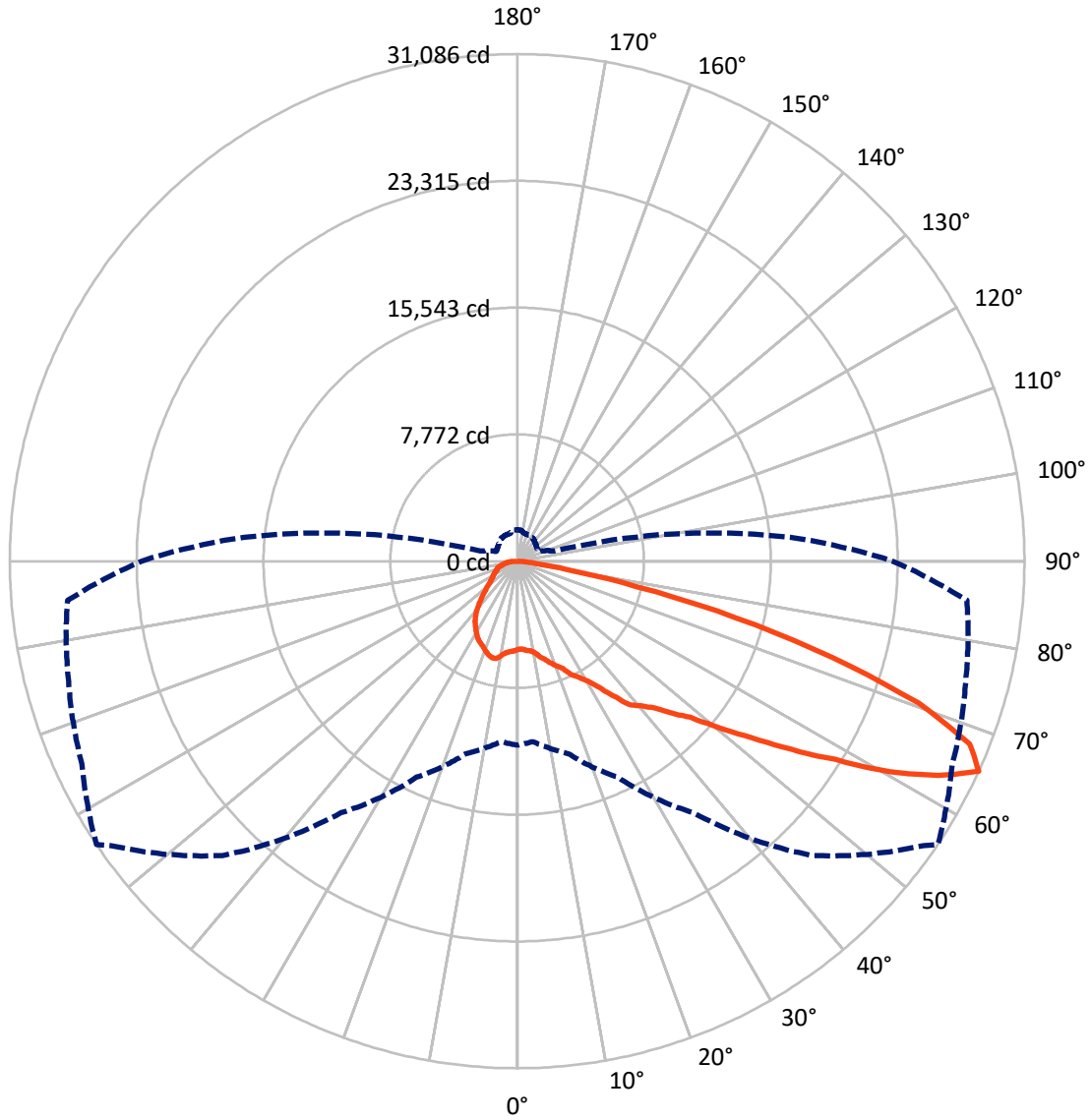
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	10107.9	0.0	10107.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	34962.8	0.0	34962.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	45070.7	0.0	45070.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.1	1.2
10°-20°	1740.8	3.9
20°-30°	3099.5	6.9
30°-40°	4641.4	10.3
40°-50°	6876.9	15.3
50°-60°	10596.3	23.5
60°-70°	11996.3	26.6
70°-80°	4978.6	11.0
80°-90°	604.8	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°	45070.7	100.0
0°-180°	45070.7	100.0

Coefficient of Utilization



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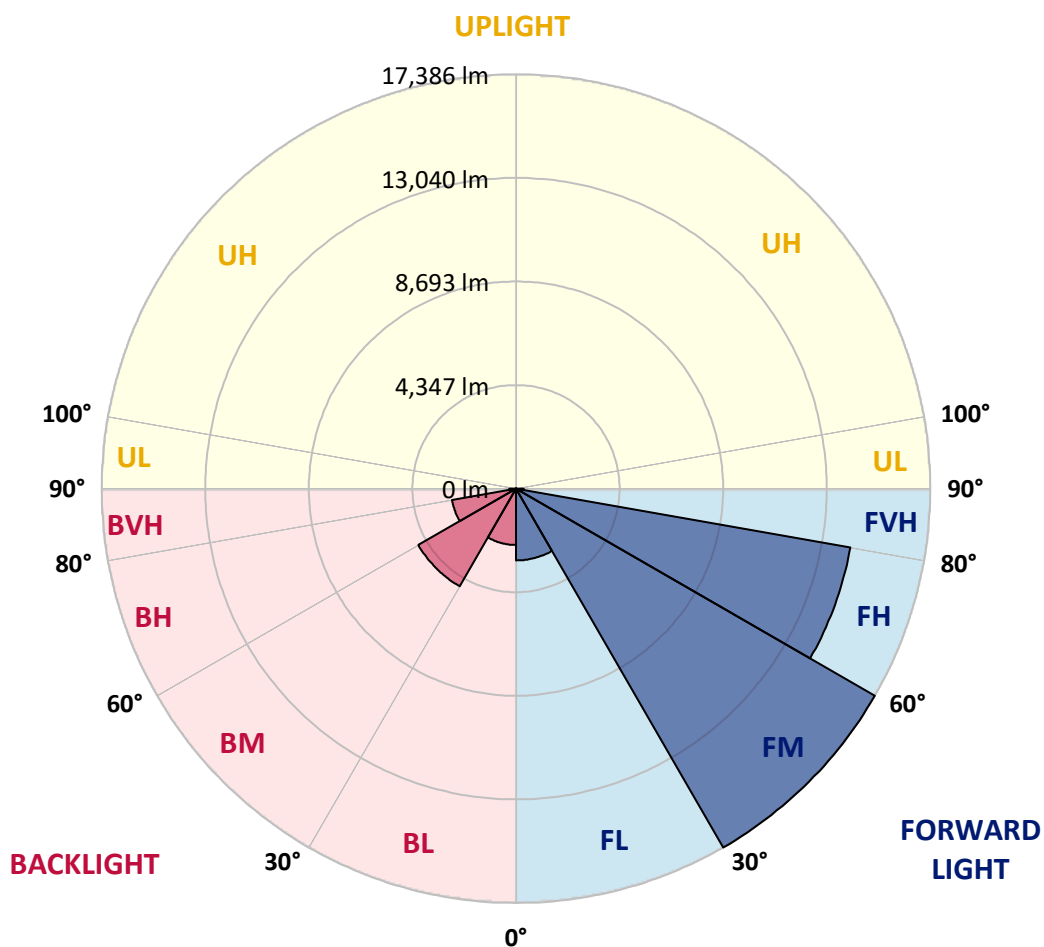
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3012.0	6.7			
FM (30°-60°)	17386.3	38.6			
FH (60°-80°)	14245.4	31.6			G5
FVH (80°-90°)	319.0	0.7			G3/500
BL (0°-30°)	2364.3	5.2	B3/2500		
BM (30°-60°)	4728.3	10.5	B3/5000		
BH (60°-80°)	2729.5	6.1	B4/5000		G4/5000
BVH (80°-90°)	285.8	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°	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8
2.5°	5268.3	5296.6	5277.7	5334.3	5381.5	5381.5	5419.2	5390.9	5428.6	5480.5
5°	5442.8	5329.6	5390.9	5419.2	5405.0	5428.6	5390.9	5485.2	5423.9	5523.0
7.5°	5485.2	5527.7	5579.6	5532.4	5574.8	5551.3	5556.0	5541.8	5508.8	5589.0
10°	5796.5	5735.2	5853.1	5782.4	5772.9	5763.5	5744.6	5673.9	5754.1	5758.8
12.5°	6155.0	6098.4	6093.7	6037.1	6112.5	5975.7	6004.0	5966.3	5980.5	5999.3
15°	6414.4	6390.8	6499.3	6433.2	6334.2	6272.9	6338.9	6235.1	6287.0	6277.6
17.5°	6928.5	6923.7	6843.6	6735.1	6678.5	6588.9	6574.7	6532.3	6570.0	6551.1
20°	7286.9	7338.8	7352.9	7225.6	7008.6	6909.6	6886.0	6853.0	6895.4	6881.3
22.5°	7834.0	7753.8	7815.2	7593.5	7513.3	7277.5	7192.6	7145.4	7348.2	7296.3
25°	8183.0	8267.9	8206.6	8131.2	7951.9	7659.5	7598.2	7702.0	7782.1	7725.5
27.5°	8970.7	8885.8	8829.2	8602.8	8484.9	8178.3	8107.6	8069.8	8088.7	8121.7
30°	9569.7	9616.8	9489.5	9329.1	9032.0	8720.7	8555.6	8522.6	8456.6	8400.0
32.5°	10423.4	10352.6	10277.1	10173.4	9918.7	9508.4	9348.0	9225.4	9027.3	8763.2
35°	10833.7	11036.5	10979.9	10701.6	10508.2	10352.6	10305.4	10116.8	9951.7	9536.7
37.5°	11517.6	11602.5	11522.3	11432.7	11343.1	11178.0	11121.4	11173.3	10847.8	10163.9
40°	11960.9	12140.1	12305.2	12055.2	12036.4	12069.4	11720.4	11659.1	10989.3	10630.9
42.5°	12866.5	12941.9	12974.9	12965.5	13074.0	13074.0	12409.0	12276.9	11800.6	11508.1
45°	14064.4	14125.8	14243.7	14328.6	14205.9	14267.3	13319.3	13267.4	12842.9	12786.3
47.5°	15102.1	15248.3	15512.4	15762.4	15922.7	15715.2	14677.6	14309.7	14201.2	14540.8
50°	16007.6	15833.1	16451.0	16705.7	17408.4	17752.7	16177.4	16031.2	15856.7	16507.6
52.5°	16097.2	16333.1	17205.6	17715.0	19162.9	19799.7	18016.8	17955.5	17743.3	18493.2
55°	16738.7	16710.4	17587.6	18691.3	20412.8	21483.4	20412.8	20375.1	19912.8	20625.0
57.5°	16630.2	16917.9	17611.2	19153.5	21540.0	23289.8	23190.8	22931.4	22285.2	22865.3
60°	16262.3	16337.8	17182.0	19139.3	22195.6	25143.4	26190.4	26242.3	24921.7	25383.9
62.5°	14177.6	14352.2	15422.8	17634.8	21728.7	26421.5	29119.4	28935.4	27878.9	27350.7
65°	11277.0	11102.5	12215.6	14606.8	18823.3	25516.0	30402.2	31086.1	29425.9	28459.0
67.5°	6914.3	6871.9	7942.5	10050.8	14083.3	21714.5	29378.8	29911.7	28996.7	28223.2
70°	3560.9	3452.4	4122.2	5607.9	8852.8	15932.2	25567.9	26091.4	26963.9	25313.2
72.5°	1660.2	1636.6	1995.1	2759.1	4508.9	9366.9	19799.7	20177.0	22016.4	21341.9
75°	976.3	990.5	1193.3	1443.2	2197.9	4414.6	13140.0	13871.1	15866.1	15380.3
77.5°	731.0	731.0	849.0	1004.6	1282.9	1707.4	6485.1	7452.0	9277.3	8343.4
80°	537.7	547.1	650.9	754.6	891.4	882.0	2575.2	3018.5	4254.2	3636.4
82.5°	419.8	433.9	504.7	561.3	627.3	533.0	1056.5	1136.7	1749.8	1391.4
85°	292.4	301.9	396.2	382.0	382.0	297.1	438.6	462.2	693.3	660.3
87.5°	70.7	80.2	193.4	212.2	160.4	89.6	136.8	155.6	250.0	287.7
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°
5409.8	0°	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8	5409.8
5504.1	2.5°	5433.3	5452.2	5532.4	5489.9	5513.5	5414.5	5494.7	5428.6	5485.2	5456.9
5546.5	5°	5584.3	5541.8	5589.0	5556.0	5556.0	5593.7	5650.3	5607.9	5692.8	5655.0
5579.6	7.5°	5645.6	5650.3	5678.6	5683.3	5659.7	5777.6	5782.4	5768.2	5848.4	5829.5
5805.9	10°	5796.5	5801.2	5853.1	5881.4	5857.8	5900.3	5853.1	5815.4	5810.7	5791.8
5985.2	12.5°	6037.1	6084.2	6074.8	6098.4	6103.1	5923.9	5815.4	5631.4	5607.9	5631.4
6249.3	15°	6258.7	6239.9	6249.3	6296.5	6098.4	5810.7	5617.3	5461.6	5471.1	5475.8
6593.6	17.5°	6522.8	6537.0	6551.1	6334.2	5971.0	5631.4	5461.6	5461.6	5414.5	5433.3
6834.1	20°	6824.7	6768.1	6645.5	6338.9	5749.4	5423.9	5372.0	5372.0	5315.4	5277.7
7093.5	22.5°	7060.5	6947.3	6763.4	6192.7	5551.3	5343.7	5216.4	5126.8	5060.7	4985.3
7381.2	25°	7211.4	7150.1	6791.7	6041.8	5405.0	5131.5	4942.8	4806.1	4721.2	4622.1
7607.6	27.5°	7442.6	7324.6	6871.9	5867.3	5244.7	4919.3	4626.8	4414.6	4254.2	4150.5
7951.9	30°	7753.8	7584.0	6815.3	5617.3	4999.4	4551.4	4207.1	3933.5	3749.6	3664.7
8277.4	32.5°	8008.5	7786.9	6768.1	5390.9	4725.9	4178.8	3721.3	3443.0	3339.2	3230.8
8824.5	35°	8494.3	8055.7	6735.1	5263.6	4480.6	3806.2	3325.1	3084.6	2952.5	2792.1
9149.9	37.5°	8866.9	8522.6	6654.9	4999.4	4164.6	3443.0	3023.2	2806.3	2608.2	2438.4
9904.5	40°	9451.8	9173.5	6659.6	4626.8	3792.0	3131.7	2787.4	2561.0	2311.1	2164.8
11022.3	42.5°	10550.7	9814.9	6687.9	4329.7	3372.3	2877.0	2575.2	2306.3	2056.4	1933.7
12295.8	45°	11899.6	10696.9	6513.4	4060.9	2943.1	2636.5	2320.5	2051.7	1891.3	1801.7
14026.7	47.5°	13451.3	11560.0	6277.6	3556.2	2584.6	2381.8	2084.7	1929.0	1811.1	1759.2
16257.6	50°	15187.0	12795.7	6211.6	3094.0	2306.3	2164.8	1971.5	1853.6	1773.4	1712.1
18771.5	52.5°	17422.6	14234.2	6079.5	2617.6	2065.8	1990.3	1929.0	1848.8	1778.1	1726.2
21115.5	55°	19559.1	15828.4	5938.0	2226.2	1896.0	1905.4	1938.5	1867.7	1806.4	1726.2
23742.6	57.5°	21964.5	17455.6	5414.5	1938.5	1768.7	1863.0	1929.0	1848.8	1787.5	1726.2
26431.0	60°	23450.2	18370.6	4391.0	1688.5	1655.5	1782.8	1872.4	1787.5	1721.5	1745.1
27666.7	62.5°	24053.9	17889.5	3310.9	1532.8	1575.3	1674.3	1782.8	1749.8	1702.6	1792.3
27652.5	65°	23025.7	16781.1	2367.7	1400.8	1466.8	1565.9	1702.6	1740.4	1754.5	1929.0
25398.1	67.5°	20488.3	14611.6	1740.4	1292.3	1353.6	1499.8	1759.2	1820.5	1811.1	2028.1
21313.6	70°	16394.4	11428.0	1358.3	1202.7	1311.2	1551.7	1839.4	1839.4	1773.4	2028.1
16257.6	72.5°	11927.9	8055.7	1169.7	1098.9	1202.7	1424.4	1830.0	1825.3	1740.4	1853.6
10352.6	75°	7220.9	4688.1	1032.9	995.2	1032.9	1221.6	1749.8	1721.5	1603.6	1594.2
4980.6	77.5°	3598.7	2358.2	844.2	882.0	900.8	1023.5	1537.6	1580.0	1419.7	1381.9
1966.8	80°	1518.7	1028.2	702.8	759.3	759.3	863.1	1278.2	1306.5	1179.1	1108.4
778.2	82.5°	693.3	589.6	599.0	660.3	617.9	669.7	1014.0	1047.1	957.4	839.5
330.2	85°	292.4	334.9	457.5	518.8	457.5	433.9	698.0	735.8	622.6	518.8
141.5	87.5°	132.1	183.9	287.7	377.3	231.1	202.8	372.6	386.7	311.3	231.1
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°
5409.8
5405.0
5603.1
5801.2
5791.8
5640.9
5541.8
5438.1
5221.1
4942.8
4641.0
4197.6
3711.8
3226.1
2778.0
2443.1
2179.0
1943.2
1820.5
1749.8
1721.5
1721.5
1721.5
1721.5
1726.2
1768.7
1929.0
2042.2
1985.6
1787.5
1575.3
1358.3
1084.8
820.7
523.5
217.0
0.0

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