

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: P476582

Luminaire Tested: **IFLD-L-SA7A-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

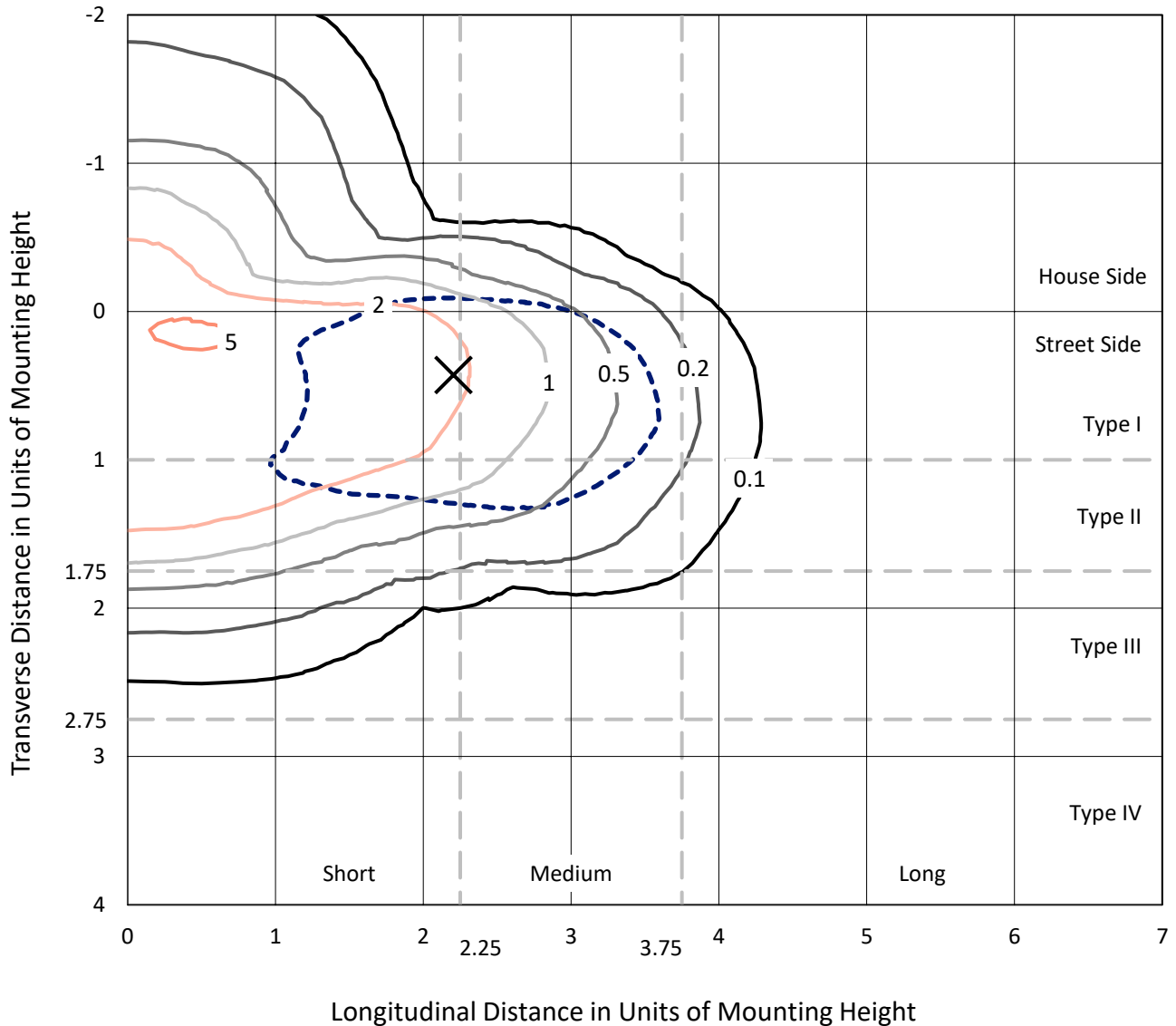
Lumens per Lamp: N/A
Luminaire Lumens: 30834.5 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

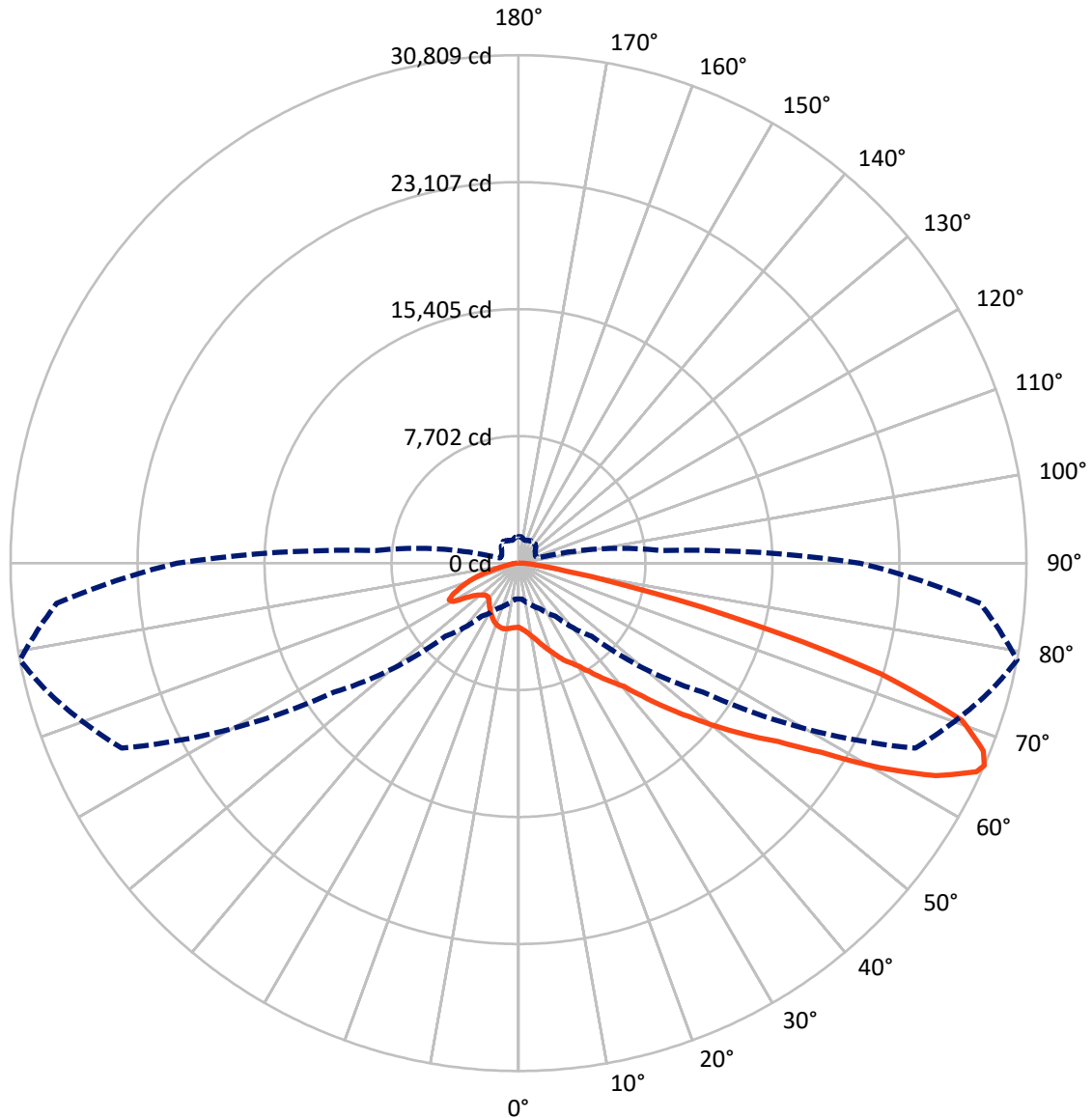
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6226.6	0.0	6226.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24607.9	0.0	24607.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	30834.5	0.0	30834.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.8	1.2
10°-20°	1182.2	3.8
20°-30°	2029.3	6.6
30°-40°	3134.9	10.2
40°-50°	5021.3	16.3
50°-60°	7497.2	24.3
60°-70°	7703.4	25.0
70°-80°	3414.8	11.1
80°-90°	468.5	1.5
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°	30834.5	100.0
0°-180°	30834.5	100.0

Coefficient of Utilization



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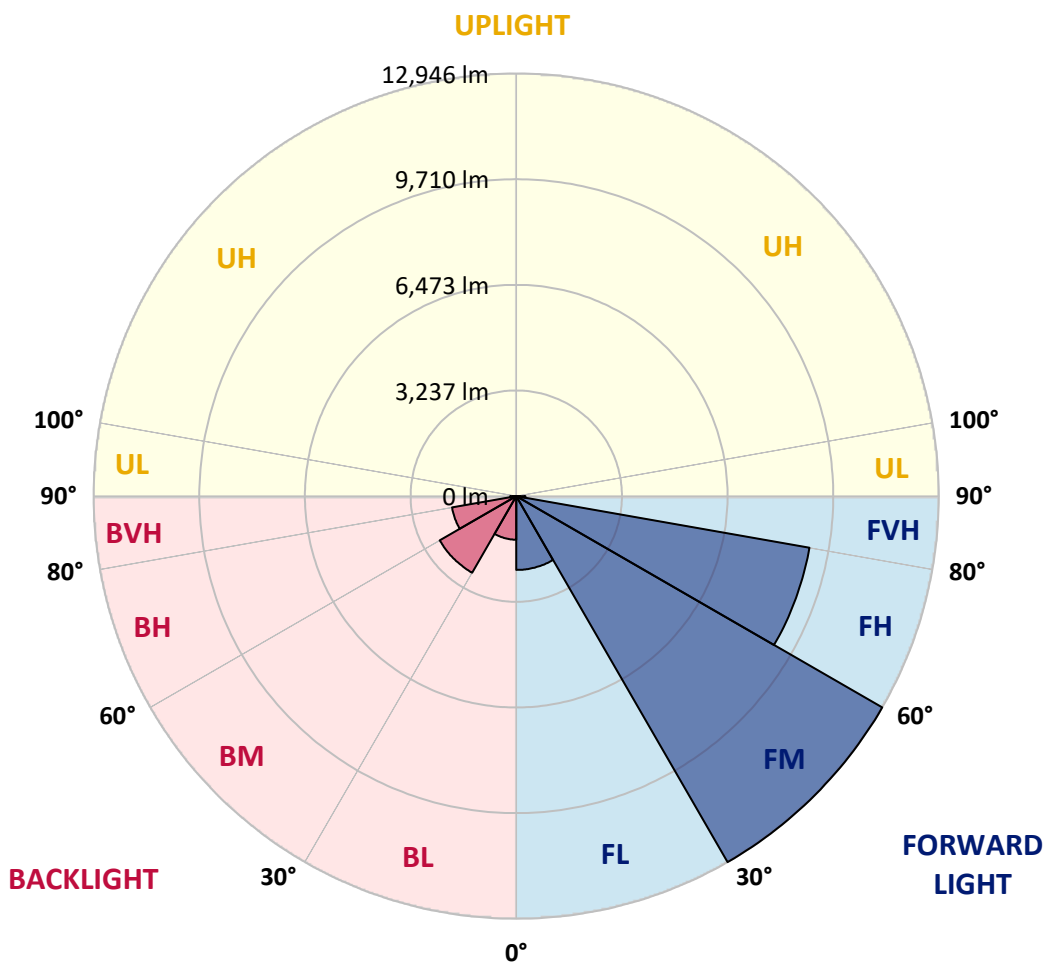
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.4	7.3			
FM (30°-60°)	12946.3	42.0			
FH (60°-80°)	9120.1	29.6			G4/12000
FVH (80°-90°)	281.0	0.9			G3/500
BL (0°-30°)	1334.0	4.3	B3/2500		
BM (30°-60°)	2707.0	8.8	B3/5000		
BH (60°-80°)	1998.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	187.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5
2.5°	4141.1	4144.5	4144.5	4130.9	4134.3	4144.5	4107.2	4025.8	4025.8	4012.2	3988.5
5°	4395.5	4378.5	4354.8	4358.2	4344.6	4344.6	4303.9	4225.9	4158.1	4130.9	4059.7
7.5°	4429.4	4446.4	4443.0	4483.7	4504.0	4504.0	4524.4	4459.9	4358.2	4293.7	4222.5
10°	4497.2	4453.1	4449.8	4544.7	4575.2	4646.5	4727.9	4693.9	4609.2	4517.6	4422.6
12.5°	4537.9	4565.1	4565.1	4612.6	4683.8	4788.9	4931.4	4995.8	4863.5	4768.6	4622.7
15°	4599.0	4561.7	4670.2	4710.9	4846.6	4921.2	5124.7	5290.9	5202.7	5087.4	4856.7
17.5°	4626.1	4602.4	4663.4	4738.0	4968.7	5080.6	5328.2	5558.8	5484.2	5409.6	5172.2
20°	4765.2	4761.8	4788.9	4850.0	5016.1	5236.6	5545.2	5864.0	5891.2	5755.5	5433.3
22.5°	5104.3	5060.2	5060.2	5036.5	5107.7	5335.0	5752.1	6193.0	6315.1	6155.7	5728.4
25°	5416.4	5477.4	5440.1	5331.6	5304.4	5423.1	5901.4	6542.4	6705.2	6555.9	6128.6
27.5°	5816.6	5836.9	5901.4	5755.5	5569.0	5606.3	6064.1	6739.1	7074.8	6874.7	6355.8
30°	6393.1	6355.8	6342.3	6179.5	5935.3	5884.4	6250.7	7027.4	7559.8	7278.3	6623.8
32.5°	6783.2	6874.7	6871.3	6647.5	6352.4	6240.5	6481.3	7298.7	8078.7	7817.6	7118.9
35°	7556.4	7651.4	7576.8	7247.8	6901.9	6678.0	6813.7	7651.4	8672.3	8468.8	7539.5
37.5°	8543.4	8767.2	8607.8	8000.7	7512.4	7268.2	7274.9	8034.7	9279.4	9113.2	7990.6
40°	9225.1	9527.0	9306.5	8736.7	8217.8	7987.2	7895.6	8489.1	10005.2	9828.8	8696.0
42.5°	10069.6	10320.6	10205.3	9642.3	9035.2	8838.5	8655.3	9248.8	11114.2	11032.8	9601.6
45°	10992.1	11110.8	11073.5	10717.4	10042.5	9974.6	9571.0	10249.4	12420.0	12453.9	10734.4
47.5°	11850.2	11914.6	11985.8	11728.1	11307.5	11365.2	10625.8	11321.1	13688.4	13912.3	11996.0
50°	12070.6	12291.1	12457.3	12630.2	12721.8	13111.9	11789.1	12637.0	15146.8	15580.9	13400.1
52.5°	11846.8	11829.8	12335.2	12877.8	13793.6	14610.9	13373.0	14271.8	16435.6	17293.7	14685.5
55°	10829.3	10795.4	11609.4	12328.4	14115.8	15445.3	15635.2	16449.2	17992.3	19108.2	16425.4
57.5°	9048.7	8838.5	9727.1	10907.3	13417.1	15536.8	17907.5	19681.3	20386.8	21658.6	19081.0
60°	6081.1	5992.9	6844.2	8251.7	10893.8	14237.9	19267.6	23727.5	23761.4	25192.7	23201.8
62.5°	3744.3	3761.3	4307.3	5362.1	7627.7	11287.2	18680.8	26959.7	26966.5	28401.1	26593.4
65°	2448.7	2458.9	2899.8	3483.2	4765.2	7654.8	15448.7	27214.0	29194.7	30527.6	28146.7
66°	2180.8	2184.2	2564.0	3038.9	3947.8	6264.3	13644.3	26552.7	29696.7	30809.1	28126.4
67.5°	1838.2	1882.3	2187.6	2553.9	3079.6	4500.6	10825.9	24639.8	29438.9	30415.7	27488.8
70°	1438.0	1461.8	1702.6	2075.6	2309.7	2604.7	6433.8	20084.9	26946.1	28530.0	25168.9
72.5°	1153.1	1173.5	1356.6	1685.6	1875.5	1716.1	3503.5	14573.6	21285.6	22974.6	19796.7
75°	973.4	976.8	1065.0	1326.1	1543.2	1288.8	1865.4	9354.0	13657.9	14444.7	12128.3
77.5°	786.8	800.4	861.5	1010.7	1241.3	1014.1	1112.4	5240.0	6857.8	6915.4	5606.3
80°	641.0	647.8	685.1	736.0	946.3	749.5	752.9	2557.3	2940.5	2872.7	2279.1
82.5°	505.3	512.1	556.2	546.0	695.3	535.9	468.0	1231.1	1353.2	1326.1	1048.0
85°	284.9	284.9	437.5	437.5	440.9	339.2	284.9	580.0	715.6	668.1	491.8
87.5°	91.6	95.0	132.3	139.1	220.5	152.6	139.1	217.1	339.2	298.5	176.4
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5	3893.5
2.5°	3974.9	3920.7	3896.9	3818.9	3798.6	3747.7	3724.0	3693.4	3683.3	3639.2	3679.9
5°	4005.5	3988.5	3893.5	3795.2	3720.6	3686.6	3635.8	3567.9	3561.2	3500.1	3493.3
7.5°	4134.3	4076.7	3910.5	3805.4	3656.1	3571.3	3459.4	3425.5	3381.4	3361.1	3405.1
10°	4334.4	4188.6	3941.0	3676.5	3493.3	3391.6	3310.2	3286.4	3289.8	3276.3	3255.9
12.5°	4476.9	4337.8	3890.1	3567.9	3330.5	3232.2	3225.4	3249.1	3286.4	3269.5	3293.2
15°	4680.4	4419.2	3852.8	3388.2	3198.3	3171.1	3167.7	3239.0	3235.6	3235.6	3232.2
17.5°	4870.3	4500.6	3717.2	3232.2	3059.2	3079.6	3103.3	3099.9	3133.8	3147.4	3171.1
20°	5111.1	4595.6	3527.2	3076.2	2954.1	2947.3	2943.9	2947.3	2981.2	3001.5	2984.6
22.5°	5321.4	4615.9	3367.8	2926.9	2828.6	2801.4	2757.4	2801.4	2784.5	2791.3	2811.6
25°	5504.5	4619.3	3140.6	2815.0	2703.1	2642.0	2608.1	2604.7	2574.2	2570.8	2570.8
27.5°	5657.2	4504.0	2940.5	2659.0	2553.9	2496.2	2492.8	2455.5	2377.5	2326.6	2333.4
30°	5775.9	4415.8	2801.4	2523.3	2421.6	2411.4	2380.9	2296.1	2194.4	2129.9	2129.9
32.5°	5986.1	4239.5	2611.5	2384.3	2333.4	2319.8	2248.6	2174.0	2079.0	2018.0	2007.8
35°	6142.2	4076.7	2486.0	2265.6	2241.8	2214.7	2153.7	2072.3	2045.1	2031.6	2041.7
37.5°	6318.5	3893.5	2333.4	2163.8	2187.6	2136.7	2065.5	2028.2	2123.1	2099.4	2109.6
40°	6600.0	3764.7	2184.2	2102.8	2126.5	2068.9	1977.3	1963.7	2082.4	1997.6	1977.3
42.5°	7115.5	3761.3	2092.6	2011.2	2028.2	1984.1	1902.7	1895.9	1943.4	1841.6	1811.1
45°	7756.5	3880.0	2024.8	1943.4	1929.8	1923.0	1895.9	1865.4	1824.7	1692.4	1658.5
47.5°	8523.0	4073.3	2011.2	1841.6	1858.6	1916.2	1882.3	1804.3	1699.2	1614.4	1597.4
50°	9452.3	4473.5	1977.3	1767.0	1797.5	1889.1	1862.0	1753.4	1658.5	1604.2	1594.0
52.5°	10480.0	4978.8	1933.2	1651.7	1719.5	1865.4	1878.9	1777.2	1638.1	1590.7	1583.9
55°	11690.8	5725.0	1882.3	1526.2	1628.0	1841.6	1878.9	1709.4	1611.0	1611.0	1604.2
57.5°	14081.8	7068.1	1777.2	1410.9	1546.6	1797.5	1824.7	1712.7	1614.4	1614.4	1600.8
60°	17588.7	9164.1	1577.1	1322.7	1468.6	1736.5	1784.0	1661.9	1577.1	1597.4	1594.0
62.5°	20332.5	9801.7	1407.5	1237.9	1390.5	1624.6	1729.7	1607.6	1533.0	1607.6	1614.4
65°	20919.3	9157.3	1234.5	1146.4	1282.0	1516.0	1651.7	1529.6	1468.6	1614.4	1621.2
66°	20709.0	8655.3	1173.5	1119.2	1234.5	1461.8	1604.2	1502.5	1434.6	1607.6	1611.0
67.5°	19772.9	7902.4	1105.7	1061.6	1170.1	1383.8	1550.0	1465.2	1380.4	1587.3	1556.7
70°	17738.0	6701.8	990.3	959.8	1078.5	1254.9	1424.5	1370.2	1295.6	1461.8	1407.5
72.5°	13661.3	5355.3	868.2	871.6	973.4	1122.6	1299.0	1261.7	1197.2	1282.0	1248.1
75°	8319.5	3422.1	756.3	763.1	847.9	997.1	1180.3	1153.1	1075.1	1122.6	1105.7
77.5°	3686.6	1695.8	637.6	651.2	719.0	878.4	1027.6	983.6	902.2	912.3	905.6
80°	1431.2	803.8	518.9	535.9	580.0	702.1	851.3	810.6	739.4	725.8	719.0
82.5°	688.5	447.7	400.2	407.0	423.9	559.6	732.6	681.7	586.7	525.7	525.7
85°	345.9	278.1	281.5	257.8	281.5	379.9	495.2	413.8	342.5	305.2	312.0
87.5°	139.1	139.1	139.1	118.7	125.5	179.8	230.6	156.0	142.4	84.8	84.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)