

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: P476468

Luminaire Tested: **IFLD-L-SA7D-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

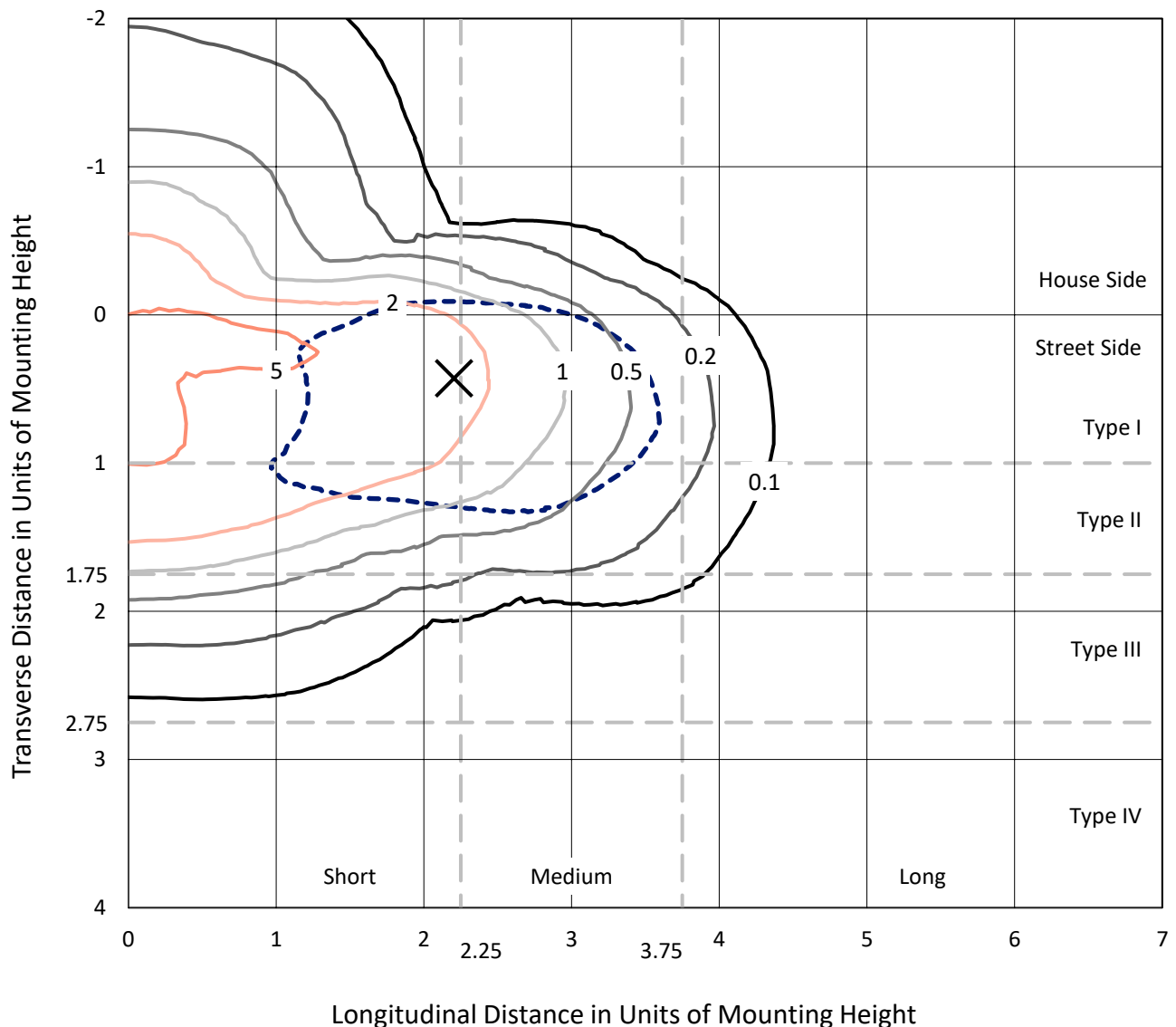
Lumens per Lamp: N/A
Luminaire Lumens: 35887.3 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

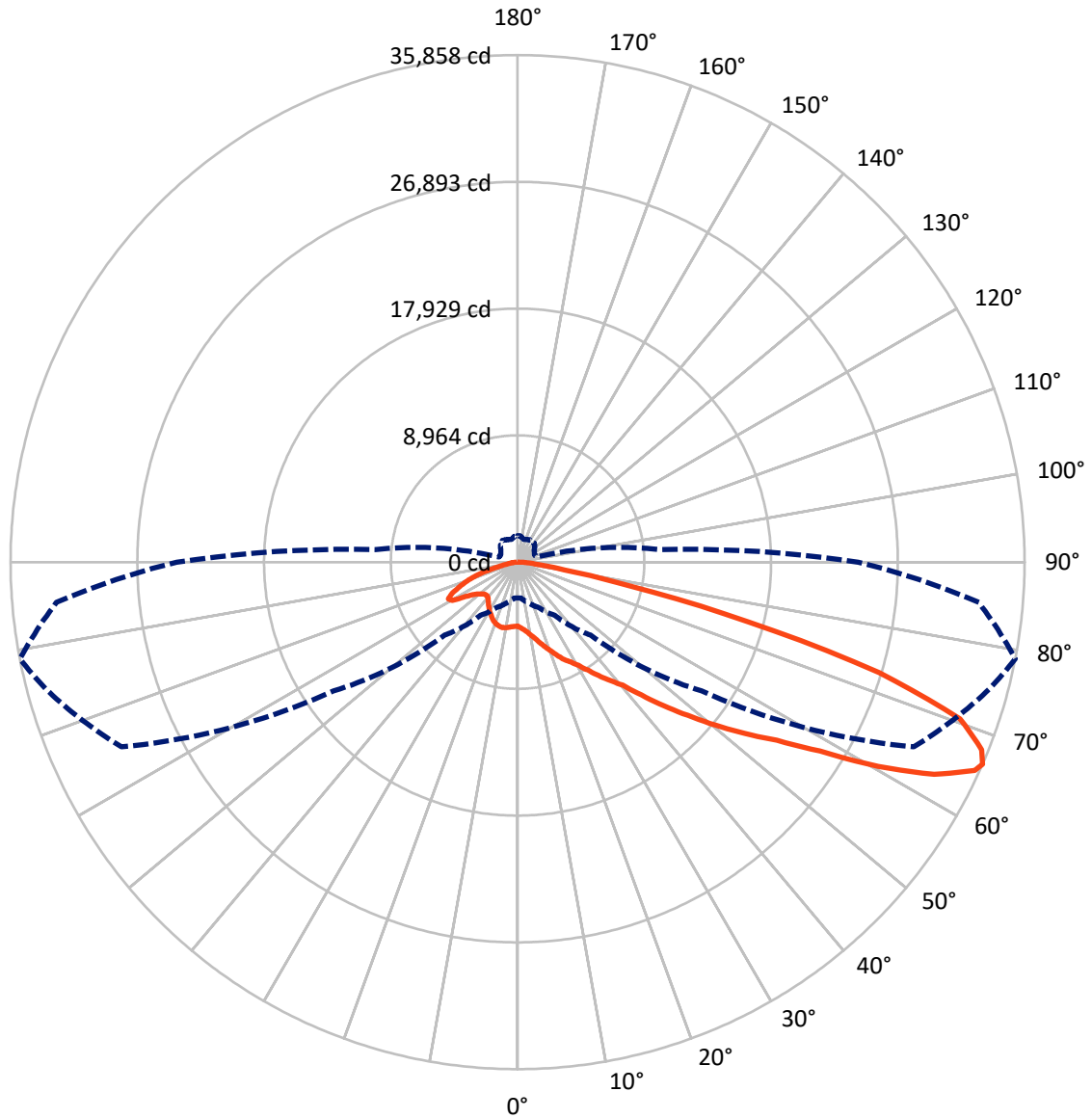
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	7246.9	0.0	7246.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28640.4	0.0	28640.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	35887.3	0.0	35887.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.6	1.2
10°-20°	1376.0	3.8
20°-30°	2361.9	6.6
30°-40°	3648.6	10.2
40°-50°	5844.2	16.3
50°-60°	8725.7	24.3
60°-70°	8965.7	25.0
70°-80°	3974.4	11.1
80°-90°	545.3	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°	35887.3	100.0
0°-180°	35887.3	100.0

Coefficient of Utilization

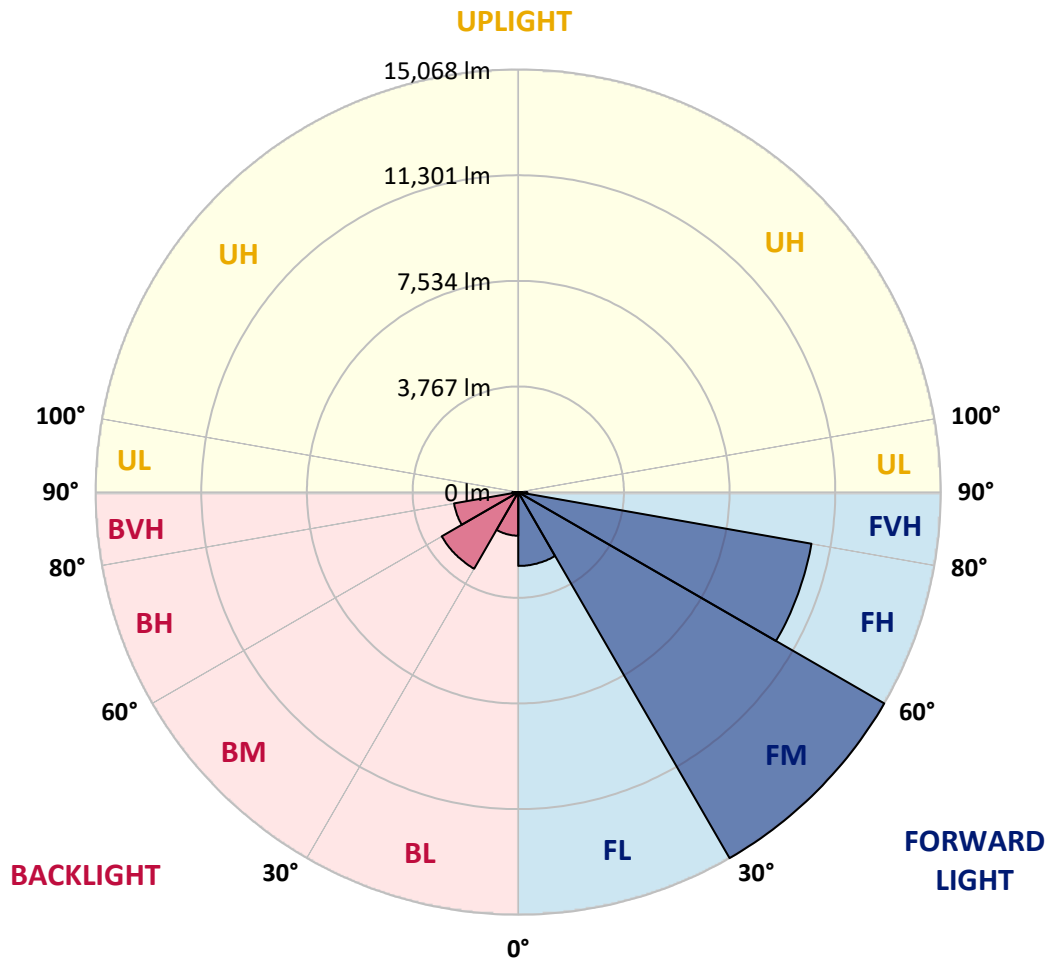


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.8	7.3			
FM (30°-60°)	15067.9	42.0			
FH (60°-80°)	10614.7	29.6			G4/12000
FVH (80°-90°)	327.1	0.9			G3/500
BL (0°-30°)	1552.6	4.3	B3/2500		
BM (30°-60°)	3150.6	8.8	B3/5000		
BH (60°-80°)	2325.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	218.3	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°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4819.7	4823.7	4823.7	4807.9	4811.8	4823.7	4780.3	4685.5	4685.5	4669.7	4642.1
5°	5115.8	5096.0	5068.4	5072.4	5056.6	5056.6	5009.2	4918.4	4839.5	4807.9	4725.0
7.5°	5155.3	5175.0	5171.0	5218.4	5242.1	5242.1	5265.8	5190.8	5072.4	4997.4	4914.5
10°	5234.2	5182.9	5178.9	5289.5	5325.0	5407.9	5502.6	5463.1	5364.5	5257.9	5147.4
12.5°	5281.6	5313.1	5313.1	5368.4	5451.3	5573.7	5739.5	5814.5	5660.5	5550.0	5380.3
15°	5352.6	5309.2	5435.5	5482.9	5640.8	5727.6	5964.5	6157.9	6055.3	5921.0	5652.6
17.5°	5384.2	5356.6	5427.6	5514.5	5782.9	5913.1	6201.3	6469.7	6382.9	6296.0	6019.7
20°	5546.0	5542.1	5573.7	5644.7	5838.1	6094.7	6453.9	6825.0	6856.6	6698.7	6323.7
22.5°	5940.8	5889.5	5889.5	5861.8	5944.7	6209.2	6694.7	7207.9	7350.0	7164.5	6667.1
25°	6303.9	6375.0	6331.6	6205.3	6173.7	6311.8	6868.4	7614.5	7803.9	7630.2	7132.9
27.5°	6769.7	6793.4	6868.4	6698.7	6481.6	6525.0	7057.9	7843.4	8234.2	8001.3	7397.4
30°	7440.8	7397.4	7381.6	7192.1	6907.9	6848.7	7275.0	8178.9	8798.7	8471.0	7709.2
32.5°	7894.7	8001.3	7997.4	7736.8	7393.4	7263.1	7543.4	8494.7	9402.6	9098.7	8285.5
35°	8794.7	8905.2	8818.4	8435.5	8032.9	7772.4	7930.2	8905.2	10093.4	9856.6	8775.0
37.5°	9943.4	10203.9	10018.4	9311.8	8743.4	8459.2	8467.1	9351.3	10800.0	10606.6	9300.0
40°	10736.8	11088.1	10831.6	10168.4	9564.5	9296.0	9189.5	9880.2	11644.7	11439.5	10121.0
42.5°	11719.7	12011.8	11877.6	11222.3	10515.8	10286.8	10073.7	10764.5	12935.5	12840.8	11175.0
45°	12793.4	12931.6	12888.1	12473.7	11688.1	11609.2	11139.5	11928.9	14455.2	14494.7	12493.4
47.5°	13792.1	13867.1	13950.0	13650.0	13160.5	13227.6	12367.1	13176.3	15931.5	16192.1	13961.8
50°	14048.7	14305.2	14498.7	14700.0	14806.6	15260.5	13721.0	14707.9	17628.9	18134.2	15596.0
52.5°	13788.1	13768.4	14356.6	14988.1	16053.9	17005.2	15564.4	16610.5	19128.9	20127.6	17092.1
55°	12603.9	12564.5	13511.8	14348.7	16428.9	17976.3	18197.3	19144.7	20940.8	22239.4	19117.1
57.5°	10531.6	10286.8	11321.0	12694.7	15615.8	18082.9	20842.1	22906.5	23727.6	25207.8	22207.9
60°	7077.6	6975.0	7965.8	9603.9	12678.9	16571.0	22425.0	27615.7	27655.2	29321.0	27003.9
62.5°	4357.9	4377.6	5013.1	6240.8	8877.6	13136.8	21742.1	31377.6	31385.5	33055.2	30951.3
65°	2850.0	2861.8	3375.0	4053.9	5546.0	8909.2	17980.2	31673.6	33978.9	35530.2	32759.1
66°	2538.2	2542.1	2984.2	3536.8	4594.7	7290.8	15880.2	30903.9	34563.1	35857.8	32735.5
67.5°	2139.5	2190.8	2546.0	2972.4	3584.2	5238.1	12600.0	28677.6	34263.1	35399.9	31993.4
70°	1673.7	1701.3	1981.6	2415.8	2688.2	3031.6	7488.1	23376.3	31361.8	33205.2	29293.4
72.5°	1342.1	1365.8	1578.9	1961.8	2182.9	1997.4	4077.6	16961.8	24773.6	26739.4	23040.7
75°	1132.9	1136.8	1239.5	1543.4	1796.0	1500.0	2171.0	10886.8	15896.0	16811.8	14115.8
77.5°	915.8	931.6	1002.6	1176.3	1444.7	1180.3	1294.7	6098.7	7981.6	8048.7	6525.0
80°	746.1	753.9	797.4	856.6	1101.3	872.4	876.3	2976.3	3422.4	3343.4	2652.6
82.5°	588.2	596.1	647.4	635.5	809.2	623.7	544.7	1432.9	1575.0	1543.4	1219.7
85°	331.6	331.6	509.2	509.2	513.2	394.7	331.6	675.0	832.9	777.6	572.4
87.5°	106.6	110.5	153.9	161.8	256.6	177.6	161.8	252.6	394.7	347.4	205.3
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°	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6	4531.6
2.5°	4626.3	4563.1	4535.5	4444.7	4421.0	4361.8	4334.2	4298.7	4286.8	4235.5	4282.9
5°	4661.8	4642.1	4531.6	4417.1	4330.3	4290.8	4231.6	4152.6	4144.7	4073.7	4065.8
7.5°	4811.8	4744.7	4551.3	4428.9	4255.3	4156.6	4026.3	3986.8	3935.5	3911.8	3963.2
10°	5044.7	4875.0	4586.8	4278.9	4065.8	3947.4	3852.6	3825.0	3828.9	3813.2	3789.5
12.5°	5210.5	5048.7	4527.6	4152.6	3876.3	3761.8	3753.9	3781.6	3825.0	3805.3	3832.9
15°	5447.4	5143.4	4484.2	3943.4	3722.4	3690.8	3686.8	3769.7	3765.8	3765.8	3761.8
17.5°	5668.4	5238.1	4326.3	3761.8	3560.5	3584.2	3611.8	3607.9	3647.4	3663.2	3690.8
20°	5948.7	5348.7	4105.3	3580.3	3438.2	3430.3	3426.3	3430.3	3469.7	3493.4	3473.7
22.5°	6193.4	5372.4	3919.7	3406.6	3292.1	3260.5	3209.2	3260.5	3240.8	3248.7	3272.4
25°	6406.6	5376.3	3655.3	3276.3	3146.0	3075.0	3035.5	3031.6	2996.0	2992.1	2992.1
27.5°	6584.2	5242.1	3422.4	3094.7	2972.4	2905.3	2901.3	2857.9	2767.1	2707.9	2715.8
30°	6722.4	5139.5	3260.5	2936.8	2818.4	2806.6	2771.0	2672.4	2553.9	2478.9	2478.9
32.5°	6967.1	4934.2	3039.5	2775.0	2715.8	2700.0	2617.1	2530.3	2419.7	2348.7	2336.8
35°	7148.7	4744.7	2893.4	2636.8	2609.2	2577.6	2506.6	2411.8	2380.3	2364.5	2376.3
37.5°	7353.9	4531.6	2715.8	2518.4	2546.0	2486.8	2403.9	2360.5	2471.0	2443.4	2455.3
40°	7681.6	4381.6	2542.1	2447.4	2475.0	2407.9	2301.3	2285.5	2423.7	2325.0	2301.3
42.5°	8281.6	4377.6	2435.5	2340.8	2360.5	2309.2	2214.5	2206.6	2261.8	2143.4	2107.9
45°	9027.6	4515.8	2356.6	2261.8	2246.0	2238.2	2206.6	2171.0	2123.7	1969.7	1930.3
47.5°	9919.7	4740.8	2340.8	2143.4	2163.2	2230.3	2190.8	2100.0	1977.6	1878.9	1859.2
50°	11001.3	5206.6	2301.3	2056.6	2092.1	2198.7	2167.1	2040.8	1930.3	1867.1	1855.3
52.5°	12197.3	5794.7	2250.0	1922.4	2001.3	2171.0	2186.8	2068.4	1906.6	1851.3	1843.4
55°	13606.6	6663.1	2190.8	1776.3	1894.7	2143.4	2186.8	1989.5	1875.0	1875.0	1867.1
57.5°	16389.4	8226.3	2068.4	1642.1	1800.0	2092.1	2123.7	1993.4	1878.9	1878.9	1863.2
60°	20471.0	10665.8	1835.5	1539.5	1709.2	2021.0	2076.3	1934.2	1835.5	1859.2	1855.3
62.5°	23664.4	11407.9	1638.2	1440.8	1618.4	1890.8	2013.2	1871.0	1784.2	1871.0	1878.9
65°	24347.3	10657.9	1436.8	1334.2	1492.1	1764.5	1922.4	1780.3	1709.2	1878.9	1886.8
66°	24102.6	10073.7	1365.8	1302.6	1436.8	1701.3	1867.1	1748.7	1669.7	1871.0	1875.0
67.5°	23013.1	9197.4	1286.8	1235.5	1361.8	1610.5	1803.9	1705.3	1606.6	1847.4	1811.8
70°	20644.7	7800.0	1152.6	1117.1	1255.3	1460.5	1657.9	1594.7	1507.9	1701.3	1638.2
72.5°	15900.0	6232.9	1010.5	1014.5	1132.9	1306.6	1511.8	1468.4	1393.4	1492.1	1452.6
75°	9682.9	3982.9	880.3	888.2	986.8	1160.5	1373.7	1342.1	1251.3	1306.6	1286.8
77.5°	4290.8	1973.7	742.1	757.9	836.8	1022.4	1196.1	1144.7	1050.0	1061.8	1053.9
80°	1665.8	935.5	603.9	623.7	675.0	817.1	990.8	943.4	860.5	844.7	836.8
82.5°	801.3	521.1	465.8	473.7	493.4	651.3	852.6	793.4	682.9	611.8	611.8
85°	402.6	323.7	327.6	300.0	327.6	442.1	576.3	481.6	398.7	355.3	363.2
87.5°	161.8	161.8	161.8	138.2	146.1	209.2	268.4	181.6	165.8	98.7	98.7
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)