

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: P478032

Luminaire Tested: **IFLD-L-SA8C-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478032
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

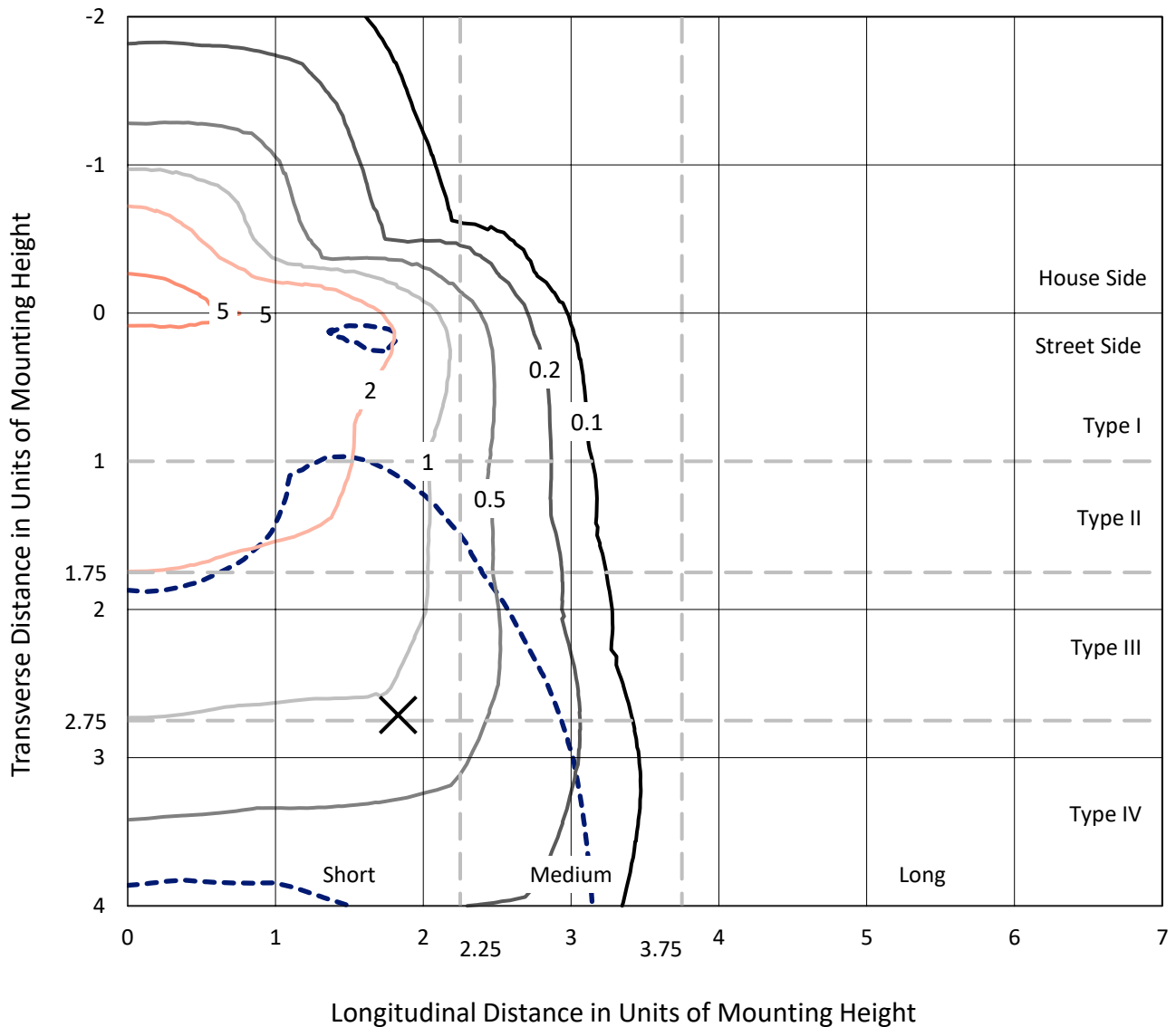
Lumens per Lamp: N/A
Luminaire Lumens: 38233.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

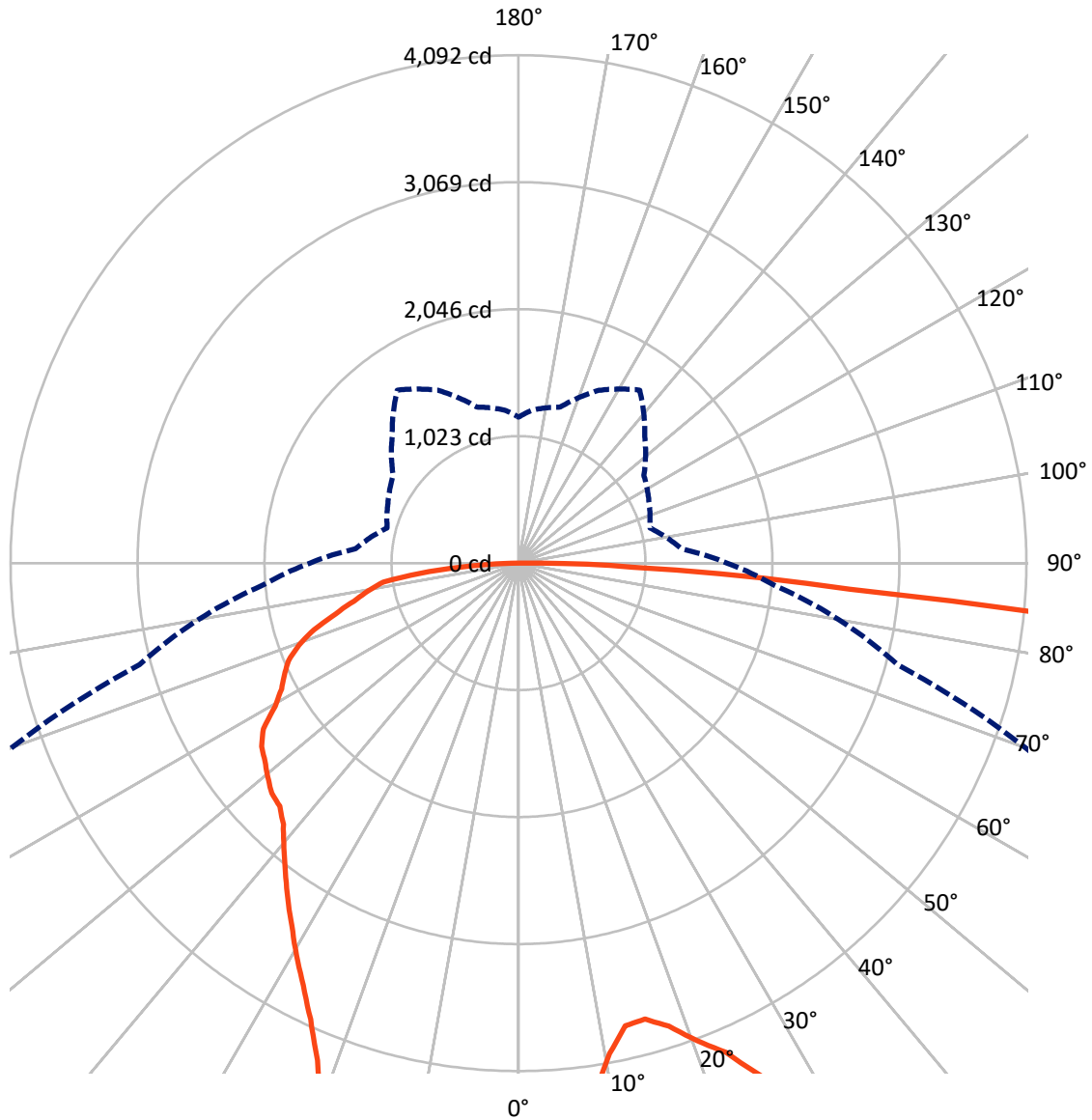
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8258.8	0.0	8258.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29974.3	0.0	29974.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	38233.1	0.0	38233.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.9	1.3
10°-20°	1415.8	3.7
20°-30°	2330.2	6.1
30°-40°	3484.8	9.1
40°-50°	5166.1	13.5
50°-60°	7444.8	19.5
60°-70°	9500.6	24.8
70°-80°	7393.1	19.3
80°-90°	991.8	2.6
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°	38233.1	100.0
0°-180°	38233.1	100.0

Coefficient of Utilization



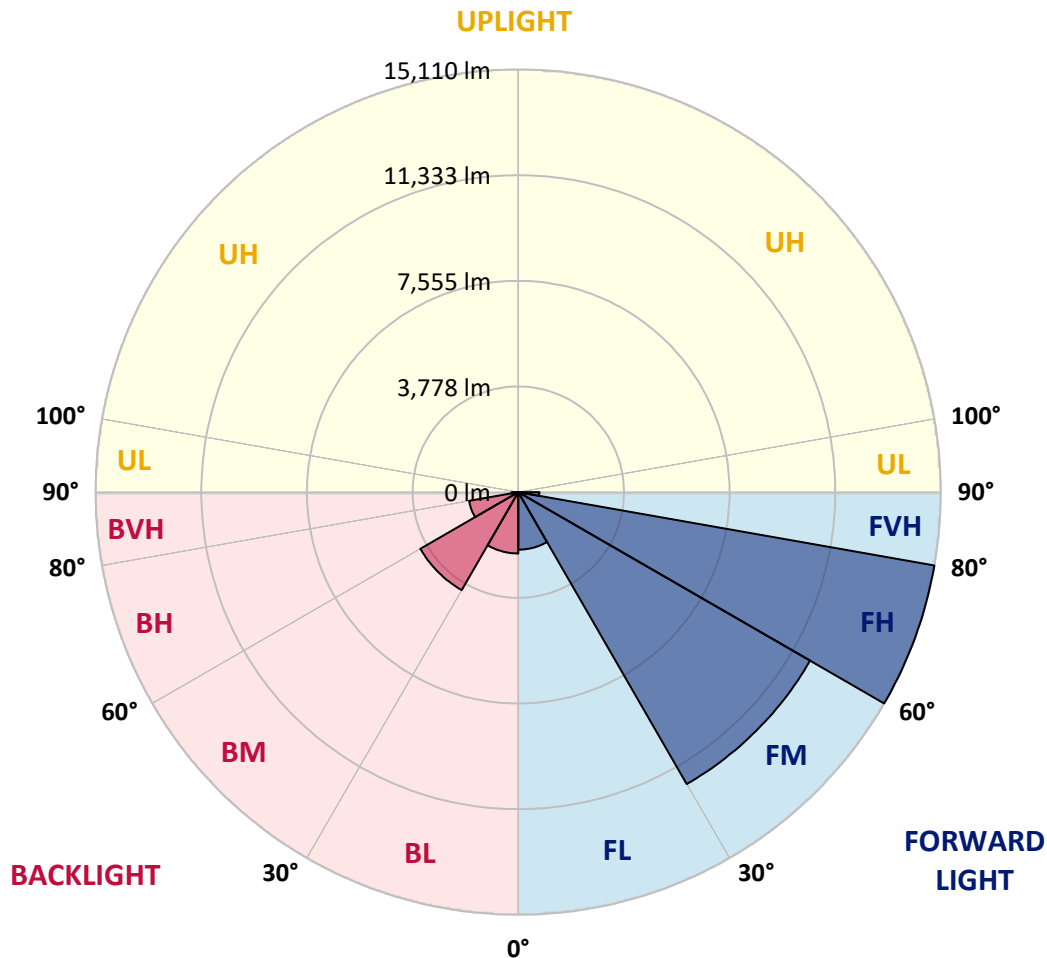
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.6	5.4			
FM (30°-60°)	12051.3	31.5			
FH (60°-80°)	15110.4	39.5			G5
FVH (80°-90°)	755.0	2.0			G5
BL (0°-30°)	2194.3	5.7	B3/2500		
BM (30°-60°)	4044.4	10.6	B3/5000		
BH (60°-80°)	1783.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	236.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3
2.5°	4911.4	4927.5	4980.1	4992.2	5048.8	5016.5	5085.2	5206.4	5275.2	5376.2	5497.5
5°	4523.3	4454.6	4486.9	4612.2	4676.9	4693.1	4765.8	4972.0	5101.3	5250.9	5477.3
7.5°	4066.5	4054.4	4119.1	4199.9	4329.3	4341.4	4503.1	4685.0	4951.8	5283.2	5550.0
10°	3755.3	3807.8	3844.2	3929.1	4018.0	4018.0	4224.2	4539.5	4842.6	5162.0	5566.2
12.5°	3739.1	3706.8	3714.8	3759.3	3824.0	3904.8	4098.9	4381.8	4765.8	5137.7	5634.9
15°	3791.6	3803.8	3731.0	3787.6	3811.9	3840.2	4054.4	4373.7	4717.3	5222.6	5752.1
17.5°	4070.6	4001.8	3888.7	3836.1	3921.0	3921.0	4066.5	4317.1	4725.4	5267.1	5921.9
20°	4288.8	4288.8	4102.9	4046.3	4106.9	4094.8	4195.9	4381.8	4765.8	5356.0	6111.9
22.5°	4656.7	4709.2	4402.0	4284.8	4280.8	4313.1	4402.0	4559.7	4879.0	5481.3	6293.8
25°	5186.2	5198.4	4842.6	4721.4	4592.0	4644.6	4660.7	4818.4	4980.1	5626.8	6500.0
27.5°	5776.4	5768.3	5440.9	5137.7	5052.8	5065.0	4976.0	5081.1	5129.6	5671.3	6795.0
30°	6431.2	6358.5	6111.9	5683.4	5614.7	5537.9	5343.9	5339.8	5440.9	5921.9	7203.3
32.5°	6859.7	6766.8	6597.0	6289.8	6099.8	6107.9	5800.7	5796.6	5707.7	6196.8	7559.0
35°	7280.1	7138.6	7094.2	6778.9	6588.9	6609.1	6362.5	6330.2	6168.5	6613.1	8145.2
37.5°	7785.4	7660.1	7728.8	7490.3	7255.9	7158.9	7045.7	7005.2	6795.0	7199.3	8945.5
40°	8343.2	8302.8	8258.3	8141.1	7999.6	8007.7	7886.5	7846.0	7534.8	7906.7	9713.6
42.5°	9095.1	8941.5	8711.1	8787.9	8860.6	8937.4	8897.0	8791.9	8468.5	8626.2	10570.5
45°	9794.4	9592.3	9167.9	9192.1	9491.2	9551.9	10041.0	10028.9	9378.1	9539.7	11544.7
47.5°	10267.4	10174.4	9919.7	9891.4	10319.9	10315.9	11197.1	11197.1	10336.1	10449.3	12591.7
50°	10970.7	10728.2	10619.0	10760.5	10978.8	11128.4	12377.4	12454.2	11277.9	11399.2	13962.0
52.5°	11795.3	11492.2	11217.3	11581.1	11969.1	12066.2	13545.6	13513.3	12001.5	12502.7	15566.8
55°	12478.5	12324.9	12134.9	12345.1	12979.7	13101.0	14717.9	14418.8	12725.1	13416.3	16338.8
57.5°	13274.8	13367.8	13408.2	13355.6	14111.5	14301.5	16055.9	15198.9	13347.6	14030.7	16791.6
60°	14475.4	14531.9	14584.5	14709.8	15510.2	15777.0	17115.0	16177.1	13739.7	14386.4	16828.0
62.5°	16302.5	16084.2	16201.4	16633.9	17276.6	17579.8	18675.3	16864.3	14038.8	14600.7	15639.5
65°	18392.3	18097.2	17976.0	18533.8	20199.2	19956.7	20623.6	17377.7	13606.3	13800.3	13262.7
67.5°	20510.5	20542.8	20231.5	21351.2	23392.6	23392.6	22434.6	17624.3	12434.0	11184.9	9301.3
70°	22192.0	22293.1	22462.9	24633.6	27867.4	28356.5	24678.0	16613.7	10045.0	7445.9	5085.2
72.5°	22167.8	21864.6	22733.7	26731.5	31933.9	31525.6	25146.9	13137.4	6269.6	3646.1	2332.4
73°	21670.6	21415.9	22365.9	26711.3	32099.6	31715.6	24803.3	12110.6	5529.8	3161.1	2073.7
75°	17697.0	17236.2	18853.1	24193.0	29698.5	29993.6	21072.3	7898.6	3031.7	1948.4	1459.3
77.5°	8068.4	8270.5	10376.5	16229.7	22887.3	23234.9	13852.8	3415.7	1661.4	1366.3	1075.2
80°	2591.1	2720.4	4038.2	8068.4	14346.0	14972.6	6402.9	1552.2	1184.4	1046.9	804.4
82.5°	990.4	986.3	1693.7	3355.1	6799.1	7199.3	2340.5	945.9	881.2	772.1	570.0
85°	347.6	363.8	638.7	1325.9	2676.0	2801.3	812.5	525.5	610.4	517.4	327.4
87.5°	121.3	125.3	226.4	481.0	921.6	974.2	226.4	210.2	303.2	299.1	165.7
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°	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3	5481.3
2.5°	5537.9	5574.3	5586.4	5731.9	5731.9	5731.9	5788.5	5788.5	5772.4	5731.9	5828.9
5°	5562.2	5626.8	5752.1	5877.5	5909.8	5938.1	6014.9	5950.2	5974.5	5934.0	5970.4
7.5°	5630.9	5719.8	5954.3	6031.1	5978.5	6039.1	5958.3	5913.8	5869.4	5885.5	5828.9
10°	5748.1	5861.3	5970.4	6111.9	6010.8	5950.2	5784.5	5744.1	5602.6	5554.1	5598.5
12.5°	5893.6	6031.1	6217.0	6164.5	5970.4	5796.6	5618.7	5449.0	5364.1	5242.8	5275.2
15°	6039.1	6196.8	6225.1	6136.2	5893.6	5675.3	5352.0	5113.5	5028.6	4919.4	4976.0
17.5°	6196.8	6346.4	6297.9	6067.4	5740.0	5408.6	5040.7	4806.3	4628.4	4559.7	4559.7
20°	6431.2	6504.0	6427.2	5954.3	5554.1	5117.5	4761.8	4495.0	4317.1	4288.8	4244.4
22.5°	6613.1	6730.4	6386.8	5788.5	5283.2	4737.5	4329.3	4228.2	4175.7	4131.2	4074.6
25°	6847.6	6843.6	6314.0	5634.9	4818.4	4284.8	4038.2	4030.1	4005.9	3989.7	4066.5
27.5°	7069.9	6977.0	6229.1	5254.9	4337.4	3941.2	3807.8	3896.7	3933.1	3908.9	3941.2
30°	7421.6	7268.0	6107.9	4850.7	3912.9	3593.6	3617.8	3739.1	3799.7	3836.1	3787.6
32.5°	7793.5	7559.0	5857.2	4430.3	3537.0	3375.3	3431.9	3557.2	3630.0	3670.4	3714.8
35°	8331.1	7785.4	5602.6	3880.6	3266.2	3241.9	3274.2	3343.0	3448.1	3476.3	3488.5
37.5°	8994.0	8129.0	5259.0	3440.0	3056.0	3084.2	3116.6	3140.8	3144.9	3197.4	3177.2
40°	9657.0	8420.0	4757.7	3019.6	2837.7	2991.3	2975.1	2930.6	2894.3	2845.8	2833.6
42.5°	10239.1	8674.7	4199.9	2663.9	2643.6	2894.3	2841.7	2728.5	2643.6	2607.3	2546.6
45°	10893.9	9034.5	3638.0	2441.5	2494.1	2777.0	2760.9	2587.1	2477.9	2348.6	2332.4
47.5°	11742.8	9410.4	3100.4	2211.1	2352.6	2732.6	2740.7	2518.3	2360.7	2186.9	2162.6
50°	12830.2	9952.1	2692.1	2114.1	2267.7	2667.9	2680.0	2425.4	2219.2	2041.3	2025.2
52.5°	13873.1	10505.8	2352.6	1964.5	2211.1	2591.1	2619.4	2340.5	2102.0	1879.7	1891.8
55°	14398.6	10303.7	2061.6	1855.4	2081.8	2465.8	2570.9	2279.8	1924.1	1770.5	1766.5
57.5°	14515.8	9806.5	1831.1	1742.2	1972.6	2332.4	2490.0	2097.9	1843.3	1713.9	1697.8
60°	14131.8	8937.4	1649.2	1620.9	1835.2	2195.0	2304.1	2000.9	1762.4	1657.3	1633.1
62.5°	13185.9	8036.0	1523.9	1564.4	1718.0	2045.4	2186.9	1932.2	1685.6	1612.9	1560.3
65°	10813.1	6609.1	1422.9	1455.2	1596.7	1899.9	2114.1	1855.4	1616.9	1548.2	1544.1
67.5°	7490.3	4555.6	1342.0	1402.7	1499.7	1794.8	2041.3	1770.5	1528.0	1503.7	1471.4
70°	3836.1	2429.4	1236.9	1285.4	1394.6	1661.4	1912.0	1681.6	1435.0	1431.0	1390.5
72.5°	1944.3	1422.9	1115.7	1188.4	1265.2	1487.6	1750.3	1564.4	1317.8	1273.3	1208.6
73°	1681.6	1317.8	1095.5	1160.1	1232.9	1439.0	1701.8	1536.1	1301.6	1236.9	1176.3
75°	1224.8	1038.9	982.3	1046.9	1103.5	1297.6	1540.1	1406.7	1196.5	1127.8	1071.2
77.5°	917.6	800.4	816.5	889.3	937.8	1119.7	1370.3	1273.3	1083.3	990.4	966.1
80°	675.1	610.4	675.1	743.8	780.2	986.3	1249.1	1103.5	913.6	808.5	788.2
82.5°	481.0	444.6	521.5	565.9	582.1	816.5	1123.7	881.2	691.2	553.8	509.3
85°	274.9	270.8	351.7	347.6	359.8	477.0	739.7	586.1	444.6	339.6	331.5
87.5°	121.3	133.4	177.9	141.5	149.6	226.4	315.3	218.3	181.9	101.1	76.8
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)