

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: P478215

Luminaire Tested: **IFLD-M-SA4A-750-U-T4FT**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478215
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

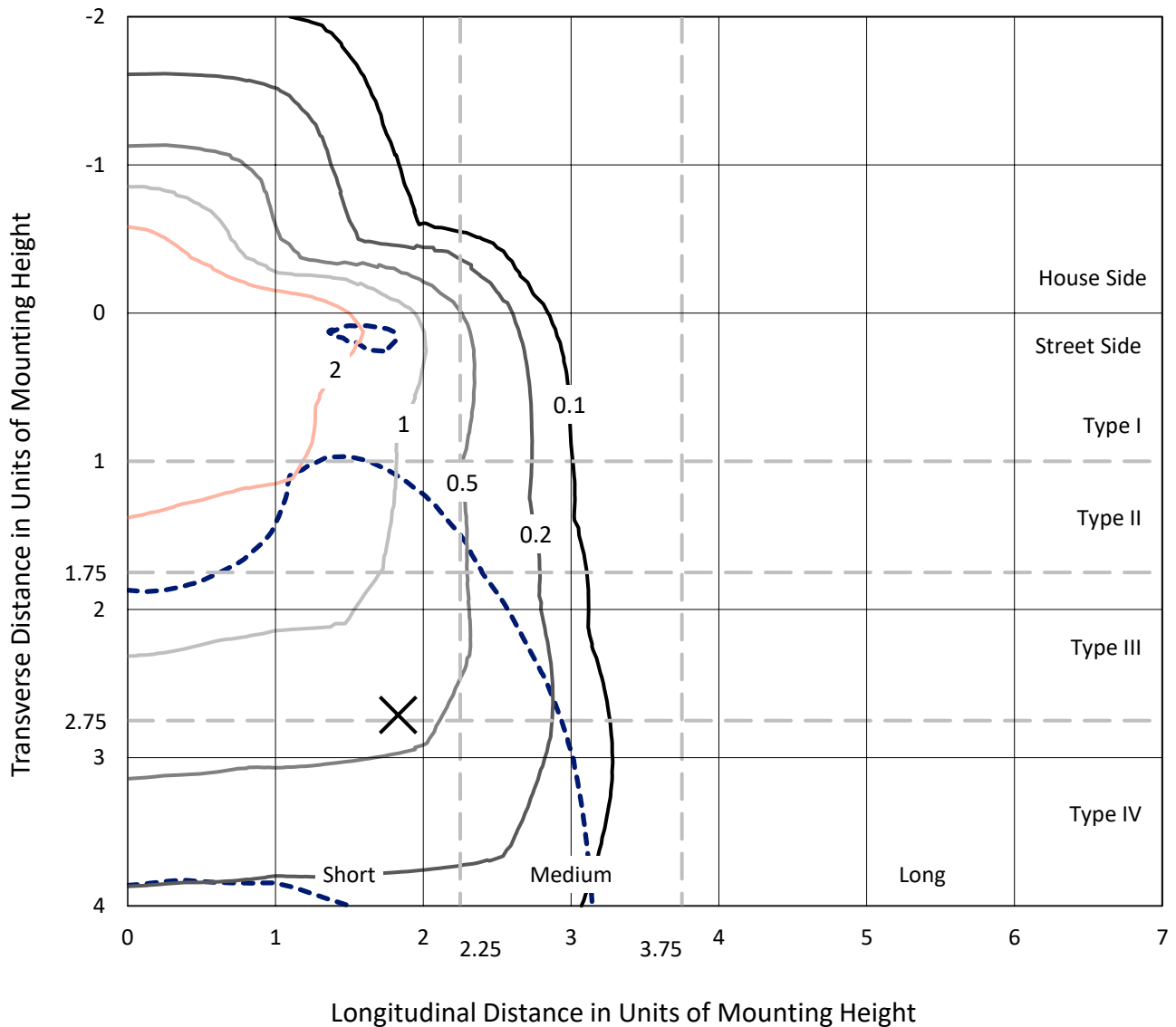
Lumens per Lamp: N/A
Luminaire Lumens: 19352.9 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 128.6
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

REPORT NUMBER: P478215
 CATALOG NUMBER: IFLD-M-SA4A-750-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

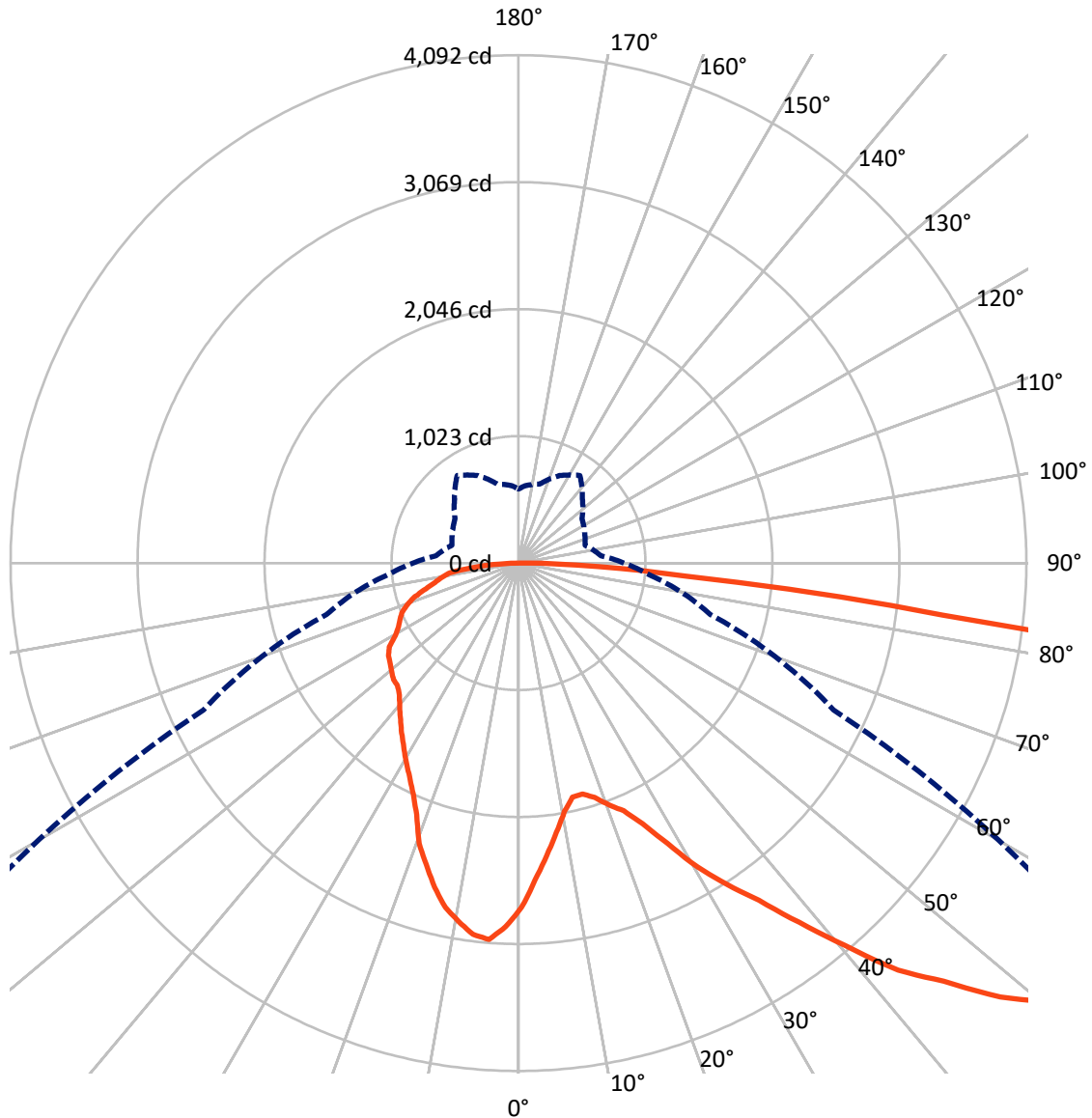
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478215
CATALOG NUMBER: IFLD-M-SA4A-750-U-T4FT

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	4180.5	0.0	4180.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15172.5	0.0	15172.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	19352.9	0.0	19352.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.3
10°-20°	716.7	3.7
20°-30°	1179.5	6.1
30°-40°	1763.9	9.1
40°-50°	2615.0	13.5
50°-60°	3768.4	19.5
60°-70°	4809.0	24.8
70°-80°	3742.2	19.3
80°-90°	502.0	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°	19352.9	100.0
0°-180°	19352.9	100.0

Coefficient of Utilization



REPORT NUMBER: P478215

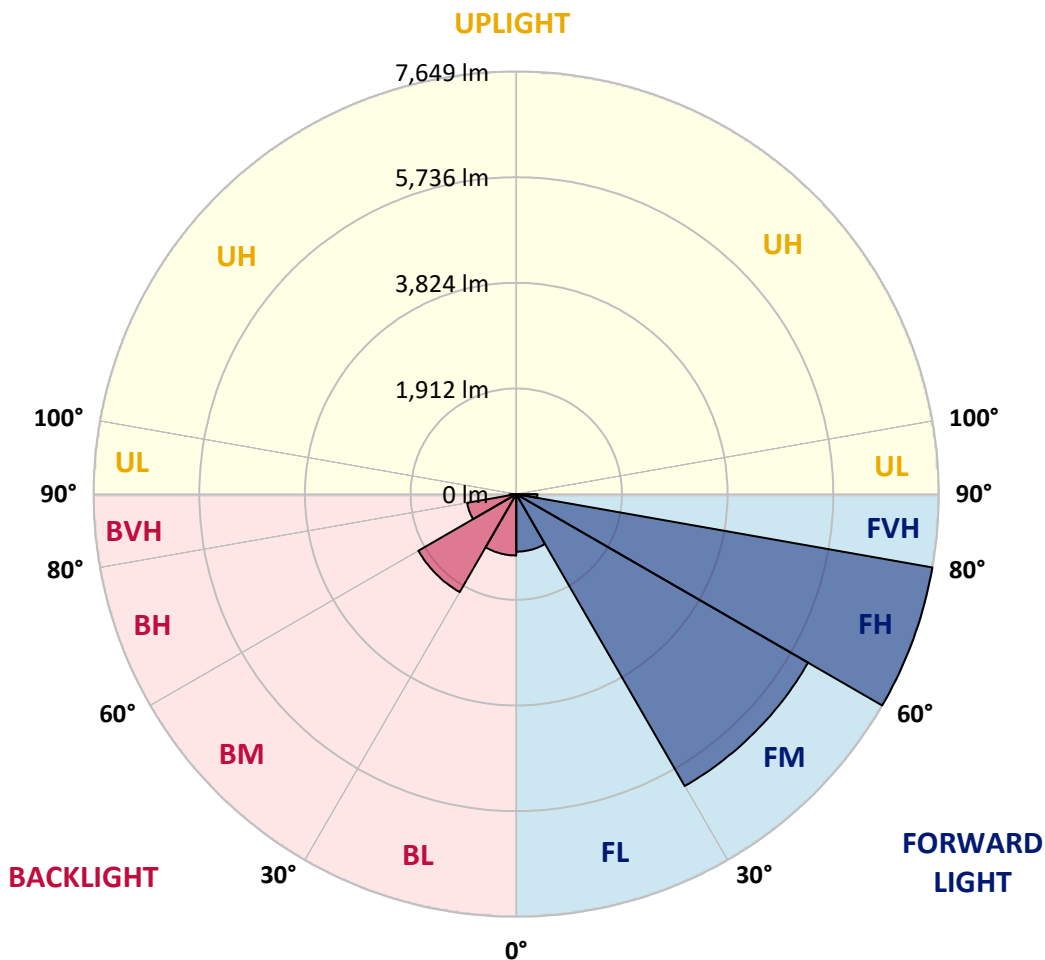
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.5	5.4			
FM (30°-60°)	6100.2	31.5			
FH (60°-80°)	7648.6	39.5			G4/12000
FVH (80°-90°)	382.1	2.0			G3/500
BL (0°-30°)	1110.7	5.7	B3/2500		
BM (30°-60°)	2047.2	10.6	B2/2500		
BH (60°-80°)	902.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	119.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5
2.5°	2486.0	2494.2	2520.8	2527.0	2555.6	2539.2	2574.0	2635.4	2670.2	2721.3	2782.7
5°	2289.6	2254.8	2271.2	2334.6	2367.4	2375.6	2412.4	2516.7	2582.2	2657.9	2772.5
7.5°	2058.4	2052.3	2085.0	2125.9	2191.4	2197.5	2279.4	2371.5	2506.5	2674.3	2809.3
10°	1900.8	1927.4	1945.9	1988.8	2033.8	2033.8	2138.2	2297.8	2451.3	2612.9	2817.5
12.5°	1892.7	1876.3	1880.4	1902.9	1935.6	1976.6	2074.8	2218.0	2412.4	2600.6	2852.3
15°	1919.3	1925.4	1888.6	1917.2	1929.5	1943.8	2052.3	2213.9	2387.8	2643.6	2911.6
17.5°	2060.4	2025.7	1968.4	1941.8	1984.7	1984.7	2058.4	2185.3	2391.9	2666.1	2997.6
20°	2170.9	2170.9	2076.8	2048.2	2078.9	2072.7	2123.9	2218.0	2412.4	2711.1	3093.7
22.5°	2357.1	2383.7	2228.2	2168.9	2166.8	2183.2	2228.2	2308.0	2469.7	2774.5	3185.8
25°	2625.2	2631.3	2451.3	2389.9	2324.4	2351.0	2359.2	2439.0	2520.8	2848.2	3290.2
27.5°	2923.9	2919.8	2754.1	2600.6	2557.7	2563.8	2518.8	2572.0	2596.5	2870.7	3439.5
30°	3255.4	3218.6	3093.7	2876.9	2842.1	2803.2	2705.0	2702.9	2754.1	2997.6	3646.2
32.5°	3472.3	3425.2	3339.3	3183.8	3087.6	3091.7	2936.2	2934.1	2889.1	3136.7	3826.3
35°	3685.1	3613.5	3590.9	3431.4	3335.2	3345.4	3220.6	3204.2	3122.4	3347.5	4122.9
37.5°	3940.8	3877.4	3912.2	3791.5	3672.8	3623.7	3566.4	3545.9	3439.5	3644.1	4528.1
40°	4223.2	4202.7	4180.2	4120.9	4049.3	4053.4	3992.0	3971.5	3814.0	4002.2	4916.8
42.5°	4603.8	4526.0	4409.4	4448.3	4485.1	4524.0	4503.5	4450.3	4286.6	4366.4	5350.6
45°	4957.8	4855.5	4640.6	4652.9	4804.3	4835.0	5082.6	5076.4	4747.0	4828.9	5843.7
47.5°	5197.2	5150.1	5021.2	5006.9	5223.8	5221.7	5667.8	5667.8	5231.9	5289.2	6373.7
50°	5553.2	5430.4	5375.2	5446.8	5557.3	5633.0	6265.2	6304.1	5708.7	5770.1	7067.3
52.5°	5970.6	5817.1	5678.0	5862.1	6058.6	6107.7	6856.6	6840.2	6074.9	6328.7	7879.6
55°	6316.4	6238.6	6142.5	6248.9	6570.1	6631.5	7449.9	7298.5	6441.2	6791.1	8270.4
57.5°	6719.5	6766.5	6787.0	6760.4	7143.0	7239.2	8127.2	7693.4	6756.3	7102.1	8499.6
60°	7327.2	7355.8	7382.4	7445.8	7851.0	7986.0	8663.3	8188.6	6954.8	7282.2	8518.0
62.5°	8252.0	8141.5	8200.9	8419.8	8745.1	8898.6	9453.1	8536.4	7106.2	7390.6	7916.5
65°	9309.9	9160.5	9099.1	9381.5	10224.5	10101.7	10439.3	8796.3	6887.3	6985.5	6713.3
67.5°	10382.0	10398.4	10240.9	10807.6	11840.9	11840.9	11356.0	8921.1	6293.9	5661.6	4708.1
70°	11233.2	11284.4	11370.3	12469.1	14106.0	14353.6	12491.6	8409.6	5084.6	3769.0	2574.0
72.5°	11220.9	11067.5	11507.4	13531.0	16164.4	15957.7	12728.9	6649.9	3173.5	1845.6	1180.6
73°	10969.3	10840.4	11321.2	13520.8	16248.3	16053.9	12555.0	6130.2	2799.1	1600.1	1049.7
75°	8957.9	8724.7	9543.1	12246.1	15032.9	15182.2	10666.4	3998.1	1534.6	986.2	738.7
77.5°	4084.1	4186.4	5252.4	8215.2	11585.2	11761.1	7012.1	1729.0	841.0	691.6	544.3
80°	1311.6	1377.0	2044.1	4084.1	7261.7	7578.8	3241.1	785.7	599.5	529.9	407.2
82.5°	501.3	499.3	857.3	1698.3	3441.6	3644.1	1184.7	478.8	446.1	390.8	288.5
85°	176.0	184.2	323.3	671.1	1354.5	1418.0	411.3	266.0	309.0	261.9	165.7
87.5°	61.4	63.4	114.6	243.5	466.5	493.1	114.6	106.4	153.5	151.4	83.9
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°	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5	2774.5
2.5°	2803.2	2821.6	2827.7	2901.4	2901.4	2901.4	2930.1	2930.1	2921.9	2901.4	2950.5
5°	2815.5	2848.2	2911.6	2975.1	2991.4	3005.8	3044.6	3011.9	3024.2	3003.7	3022.1
7.5°	2850.3	2895.3	3013.9	3052.8	3026.2	3056.9	3016.0	2993.5	2971.0	2979.2	2950.5
10°	2909.6	2966.9	3022.1	3093.7	3042.6	3011.9	2928.0	2907.5	2835.9	2811.4	2833.9
12.5°	2983.2	3052.8	3146.9	3120.3	3022.1	2934.1	2844.1	2758.2	2715.2	2653.8	2670.2
15°	3056.9	3136.7	3151.0	3106.0	2983.2	2872.8	2709.1	2588.3	2545.4	2490.1	2518.8
17.5°	3136.7	3212.4	3187.9	3071.2	2905.5	2737.7	2551.5	2432.8	2342.8	2308.0	2308.0
20°	3255.4	3292.2	3253.3	3013.9	2811.4	2590.4	2410.3	2275.3	2185.3	2170.9	2148.4
22.5°	3347.5	3406.8	3232.9	2930.1	2674.3	2398.1	2191.4	2140.2	2113.6	2091.1	2062.5
25°	3466.1	3464.1	3196.0	2852.3	2439.0	2168.9	2044.1	2040.0	2027.7	2019.5	2058.4
27.5°	3578.7	3531.6	3153.1	2660.0	2195.5	1995.0	1927.4	1972.5	1990.9	1978.6	1995.0
30°	3756.7	3678.9	3091.7	2455.3	1980.6	1819.0	1831.3	1892.7	1923.4	1941.8	1917.2
32.5°	3944.9	3826.3	2964.8	2242.6	1790.4	1708.5	1737.2	1800.6	1837.4	1857.9	1880.4
35°	4217.1	3940.8	2835.9	1964.3	1653.3	1641.0	1657.4	1692.1	1745.3	1759.7	1765.8
37.5°	4552.6	4114.8	2662.0	1741.3	1546.9	1561.2	1577.6	1589.8	1591.9	1618.5	1608.3
40°	4888.2	4262.1	2408.3	1528.5	1436.4	1514.1	1505.9	1483.4	1465.0	1440.5	1434.3
42.5°	5182.8	4391.0	2125.9	1348.4	1338.2	1465.0	1438.4	1381.1	1338.2	1319.8	1289.1
45°	5514.3	4573.1	1841.5	1235.9	1262.5	1405.7	1397.5	1309.5	1254.3	1188.8	1180.6
47.5°	5944.0	4763.4	1569.4	1119.2	1190.8	1383.2	1387.3	1274.7	1194.9	1107.0	1094.7
50°	6494.4	5037.6	1362.7	1070.1	1147.9	1350.4	1356.6	1227.7	1123.3	1033.3	1025.1
52.5°	7022.3	5317.9	1190.8	994.4	1119.2	1311.6	1325.9	1184.7	1064.0	951.4	957.6
55°	7288.3	5215.6	1043.5	939.2	1053.8	1248.1	1301.3	1154.0	974.0	896.2	894.2
57.5°	7347.6	4963.9	926.9	881.9	998.5	1180.6	1260.4	1061.9	933.0	867.6	859.4
60°	7153.3	4524.0	834.8	820.5	928.9	1111.0	1166.3	1012.8	892.1	838.9	826.6
62.5°	6674.5	4067.7	771.4	791.9	869.6	1035.3	1107.0	978.0	853.2	816.4	789.8
65°	5473.4	3345.4	720.2	736.6	808.2	961.7	1070.1	939.2	818.4	783.7	781.6
67.5°	3791.5	2306.0	679.3	710.0	759.1	908.5	1033.3	896.2	773.4	761.2	744.8
70°	1941.8	1229.7	626.1	650.7	705.9	841.0	967.8	851.2	726.4	724.3	703.9
72.5°	984.2	720.2	564.7	601.6	640.4	753.0	886.0	791.9	667.0	644.5	611.8
73°	851.2	667.0	554.5	587.2	624.1	728.4	861.4	777.5	658.9	626.1	595.4
75°	620.0	525.9	497.2	529.9	558.6	656.8	779.6	712.1	605.7	570.9	542.2
77.5°	464.5	405.1	413.3	450.1	474.7	566.8	693.6	644.5	548.4	501.3	489.0
80°	341.7	309.0	341.7	376.5	394.9	499.3	632.3	558.6	462.4	409.2	399.0
82.5°	243.5	225.1	264.0	286.5	294.6	413.3	568.8	446.1	349.9	280.3	257.8
85°	139.1	137.1	178.0	176.0	182.1	241.4	374.4	296.7	225.1	171.9	167.8
87.5°	61.4	67.5	90.0	71.6	75.7	114.6	159.6	110.5	92.1	51.2	38.9
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)