

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: P478062

Luminaire Tested: **IFLD-M-SA4D-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478062
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

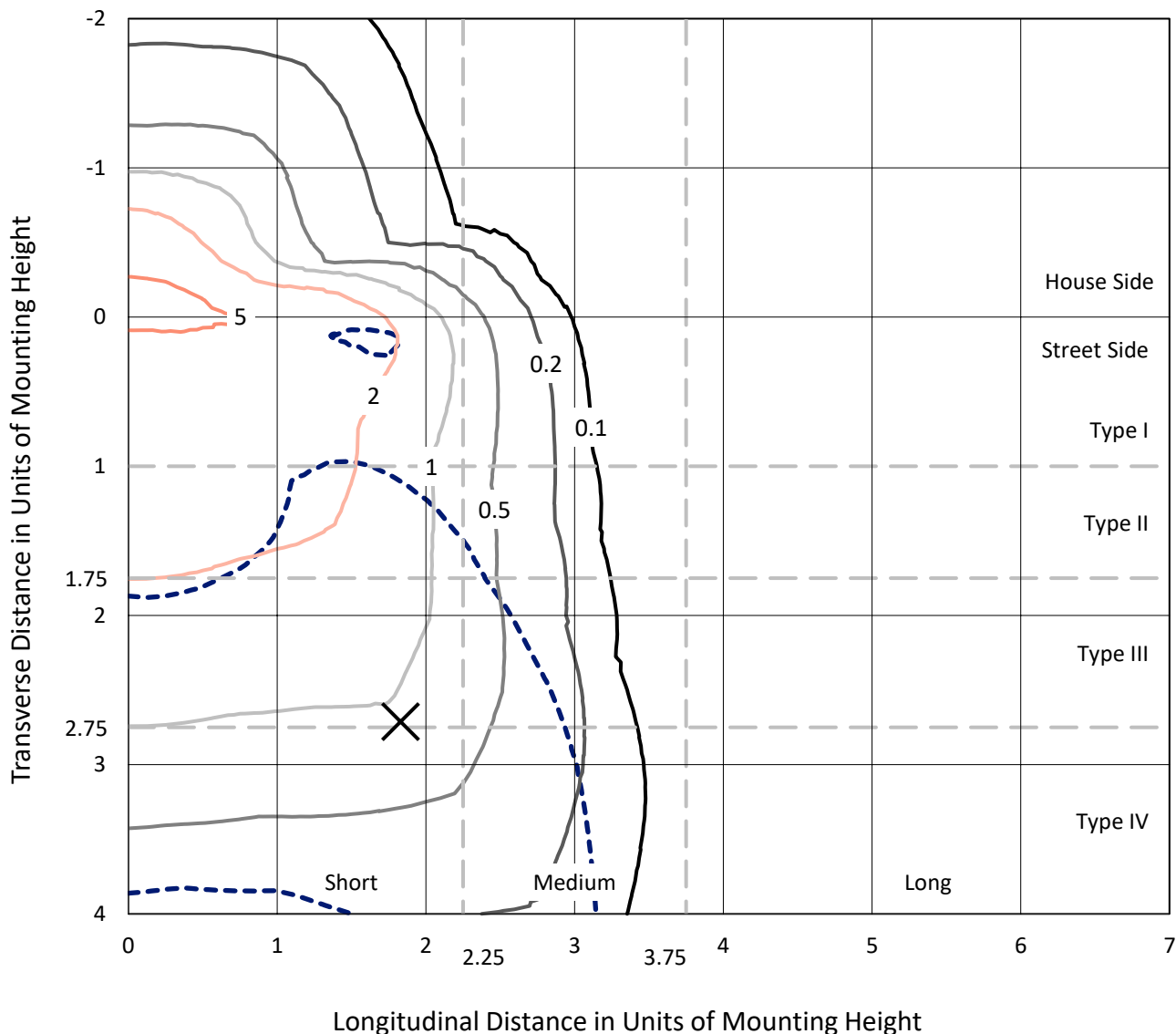
Lumens per Lamp: N/A
Luminaire Lumens: 26803.5 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

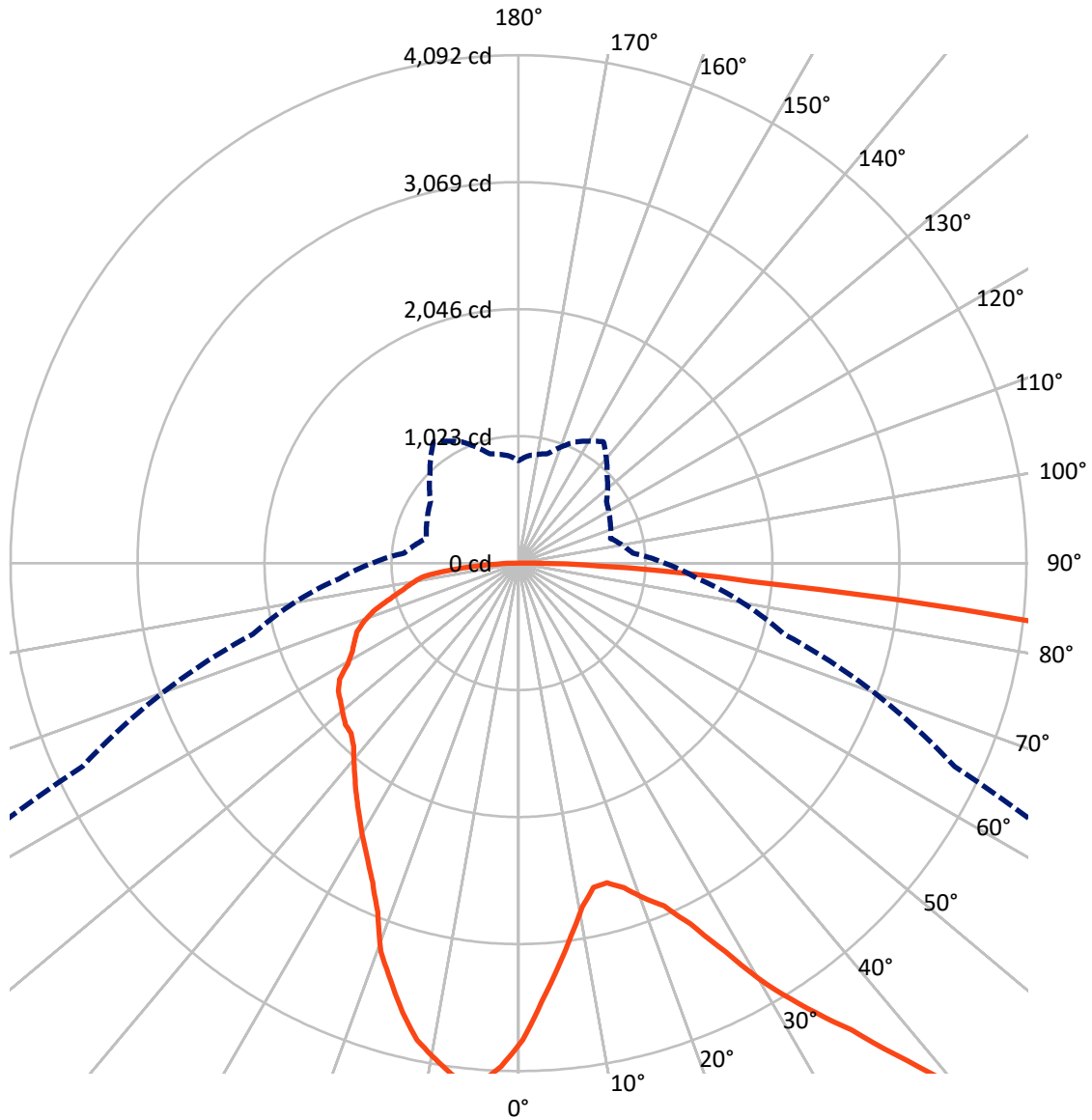
× Max cd
 - - - 1/2 Max cd



Based on 25 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	5789.9	0.0	5789.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21013.6	0.0	21013.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	26803.5	0.0	26803.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.3
10°-20°	992.6	3.7
20°-30°	1633.6	6.1
30°-40°	2443.0	9.1
40°-50°	3621.7	13.5
50°-60°	5219.2	19.5
60°-70°	6660.5	24.8
70°-80°	5182.9	19.3
80°-90°	695.3	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°	26803.5	100.0
0°-180°	26803.5	100.0

Coefficient of Utilization



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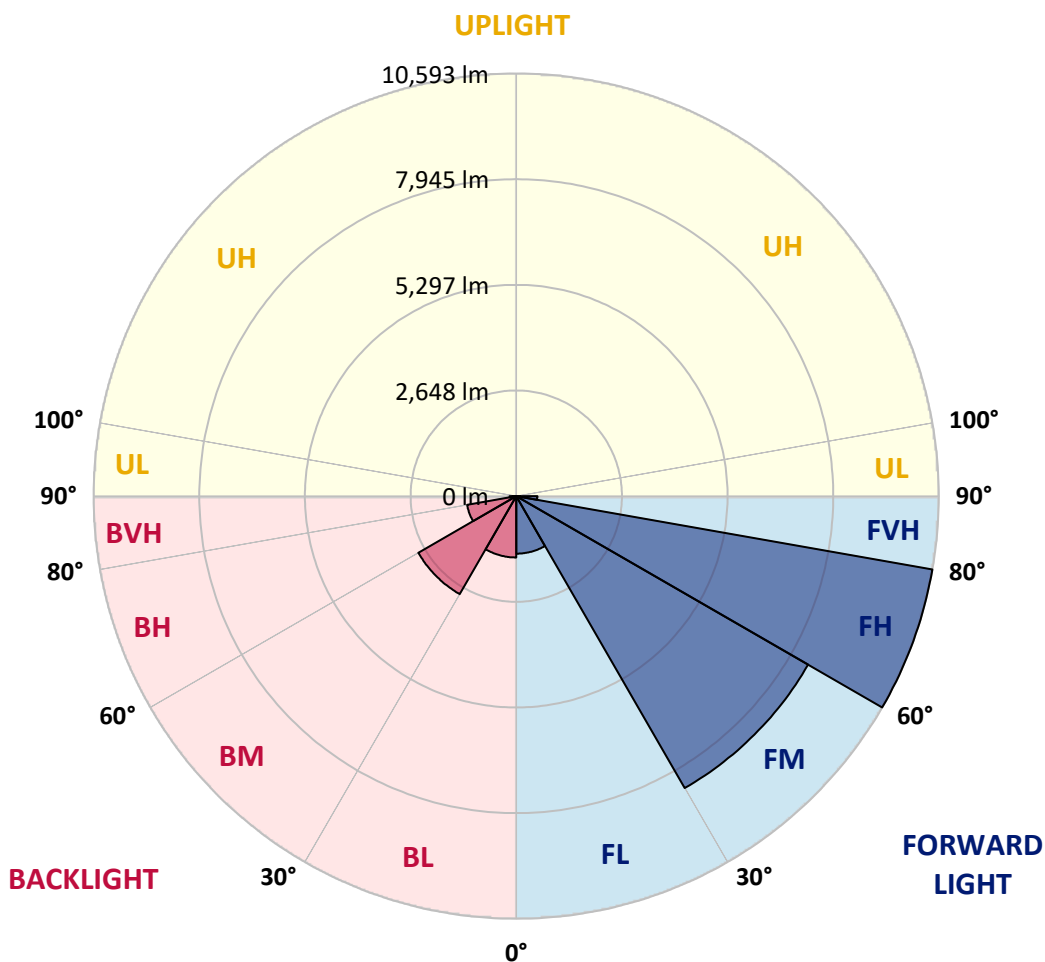
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.5	5.4			
FM (30°-60°)	8448.6	31.5			
FH (60°-80°)	10593.2	39.5			G4/12000
FVH (80°-90°)	529.3	2.0			G4/750
BL (0°-30°)	1538.3	5.7	B3/2500		
BM (30°-60°)	2835.3	10.6	B3/5000		
BH (60°-80°)	1250.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	166.1	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°	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7
2.5°	3443.1	3454.5	3491.3	3499.8	3539.5	3516.8	3565.0	3650.0	3698.2	3769.0	3854.0
5°	3171.1	3122.9	3145.6	3233.4	3278.8	3290.1	3341.1	3485.6	3576.3	3681.2	3839.9
7.5°	2850.9	2842.4	2887.7	2944.4	3035.1	3043.6	3156.9	3284.4	3471.5	3703.8	3890.9
10°	2632.6	2669.5	2695.0	2754.5	2816.8	2816.8	2961.4	3182.4	3395.0	3618.8	3902.2
12.5°	2621.3	2598.6	2604.3	2635.5	2680.8	2737.5	2873.5	3071.9	3341.1	3601.8	3950.4
15°	2658.2	2666.7	2615.6	2655.3	2672.3	2692.2	2842.4	3066.2	3307.1	3661.3	4032.6
17.5°	2853.7	2805.5	2726.2	2689.3	2748.8	2748.8	2850.9	3026.6	3312.8	3692.5	4151.6
20°	3006.7	3006.7	2876.4	2836.7	2879.2	2870.7	2941.5	3071.9	3341.1	3754.9	4284.8
22.5°	3264.6	3301.4	3086.1	3003.9	3001.0	3023.7	3086.1	3196.6	3420.5	3842.7	4412.3
25°	3635.8	3644.3	3395.0	3309.9	3219.3	3256.1	3267.4	3378.0	3491.3	3944.7	4556.8
27.5°	4049.6	4043.9	3814.4	3601.8	3542.3	3550.8	3488.5	3562.2	3596.2	3975.9	4763.7
30°	4508.7	4457.7	4284.8	3984.4	3936.2	3882.4	3746.4	3743.5	3814.4	4151.6	5049.9
32.5°	4809.0	4743.9	4624.8	4409.5	4276.3	4282.0	4066.6	4063.7	4001.4	4344.3	5299.3
35°	5103.8	5004.6	4973.4	4752.4	4619.2	4633.3	4460.5	4437.8	4324.5	4636.2	5710.2
37.5°	5458.0	5370.2	5418.3	5251.1	5086.8	5018.8	4939.4	4911.1	4763.7	5047.1	6271.3
40°	5849.1	5820.7	5789.6	5707.4	5608.2	5613.9	5528.8	5500.5	5282.3	5543.0	6809.7
42.5°	6376.2	6268.5	6107.0	6160.8	6211.8	6265.6	6237.3	6163.6	5936.9	6047.4	7410.5
45°	6866.4	6724.7	6427.2	6444.2	6653.9	6696.4	7039.3	7030.8	6574.5	6687.9	8093.5
47.5°	7198.0	7132.8	6954.3	6934.4	7234.8	7232.0	7849.8	7849.8	7246.2	7325.5	8827.5
50°	7691.1	7521.0	7444.5	7543.7	7696.7	7801.6	8677.3	8731.1	7906.4	7991.5	9788.1
52.5°	8269.2	8056.6	7863.9	8119.0	8391.0	8459.1	9496.2	9473.6	8413.7	8765.1	10913.2
55°	8748.1	8640.4	8507.2	8654.6	9099.5	9184.5	10318.1	10108.4	8921.0	9405.6	11454.4
57.5°	9306.4	9371.6	9399.9	9363.0	9893.0	10026.2	11256.1	10655.3	9357.4	9836.3	11771.8
60°	10148.0	10187.7	10224.5	10312.4	10873.5	11060.5	11998.5	11341.1	9632.3	10085.7	11797.3
62.5°	11428.9	11275.9	11358.1	11661.3	12111.9	12324.4	13092.4	11822.8	9842.0	10235.9	10964.2
65°	12894.0	12687.2	12602.1	12993.2	14160.8	13990.7	14458.3	12182.7	9538.7	9674.8	9297.9
67.5°	14379.0	14401.6	14183.4	14968.4	16399.5	16399.5	15727.9	12355.6	8716.9	7841.3	6520.7
70°	15557.9	15628.7	15747.7	17269.5	19536.6	19879.5	17300.7	11647.1	7042.1	5220.0	3565.0
72.5°	15540.8	15328.3	15937.6	18740.3	22387.4	22101.2	17629.4	9210.0	4395.3	2556.1	1635.1
73°	15192.3	15013.8	15679.7	18726.1	22503.6	22234.4	17388.5	8490.2	3876.7	2216.1	1453.8
75°	12406.6	12083.5	13217.1	16960.6	20820.3	21027.2	14772.9	5537.3	2125.4	1365.9	1023.0
77.5°	5656.4	5798.1	7274.5	11377.9	16045.3	16289.0	9711.6	2394.6	1164.7	957.8	753.8
80°	1816.5	1907.2	2831.0	5656.4	10057.3	10496.6	4488.8	1088.2	830.3	734.0	563.9
82.5°	694.3	691.5	1187.4	2352.1	4766.5	5047.1	1640.8	663.1	617.8	541.3	399.6
85°	243.7	255.0	447.7	929.5	1876.0	1963.9	569.6	368.4	427.9	362.7	229.5
87.5°	85.0	87.8	158.7	337.2	646.1	683.0	158.7	147.4	212.5	209.7	116.2
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°	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7	3842.7
2.5°	3882.4	3907.9	3916.4	4018.4	4018.4	4018.4	4058.1	4058.1	4046.7	4018.4	4086.4
5°	3899.4	3944.7	4032.6	4120.4	4143.1	4162.9	4216.8	4171.4	4188.4	4160.1	4185.6
7.5°	3947.6	4009.9	4174.3	4228.1	4191.3	4233.8	4177.1	4145.9	4114.8	4126.1	4086.4
10°	4029.7	4109.1	4185.6	4284.8	4213.9	4171.4	4055.2	4026.9	3927.7	3893.7	3924.9
12.5°	4131.8	4228.1	4358.5	4321.6	4185.6	4063.7	3939.1	3820.0	3760.5	3675.5	3698.2
15°	4233.8	4344.3	4364.1	4301.8	4131.8	3978.7	3752.0	3584.8	3525.3	3448.8	3488.5
17.5°	4344.3	4449.1	4415.1	4253.6	4024.1	3791.7	3533.8	3369.5	3244.8	3196.6	3196.6
20°	4508.7	4559.7	4505.8	4174.3	3893.7	3587.7	3338.3	3151.2	3026.6	3006.7	2975.5
22.5°	4636.2	4718.4	4477.5	4058.1	3703.8	3321.3	3035.1	2964.2	2927.4	2896.2	2856.5
25°	4800.5	4797.7	4426.5	3950.4	3378.0	3003.9	2831.0	2825.4	2808.3	2797.0	2850.9
27.5°	4956.4	4891.2	4367.0	3684.0	3040.7	2763.0	2669.5	2731.8	2757.3	2740.3	2763.0
30°	5203.0	5095.3	4282.0	3400.6	2743.2	2519.3	2536.3	2621.3	2663.8	2689.3	2655.3
32.5°	5463.7	5299.3	4106.3	3105.9	2479.6	2366.3	2405.9	2493.8	2544.8	2573.1	2604.3
35°	5840.6	5458.0	3927.7	2720.5	2289.8	2272.7	2295.4	2343.6	2417.3	2437.1	2445.6
37.5°	6305.3	5698.9	3686.8	2411.6	2142.4	2162.2	2184.9	2201.9	2204.7	2241.6	2227.4
40°	6770.1	5902.9	3335.4	2116.9	1989.4	2097.1	2085.7	2054.5	2029.0	1995.0	1986.5
42.5°	7178.1	6081.4	2944.4	1867.5	1853.3	2029.0	1992.2	1912.9	1853.3	1827.8	1785.3
45°	7637.2	6333.7	2550.5	1711.6	1748.5	1946.9	1935.5	1813.7	1737.2	1646.5	1635.1
47.5°	8232.3	6597.2	2173.6	1550.1	1649.3	1915.7	1921.4	1765.5	1655.0	1533.1	1516.1
50°	8994.6	6976.9	1887.3	1482.1	1589.8	1870.3	1878.8	1700.3	1555.8	1431.1	1419.8
52.5°	9725.8	7365.2	1649.3	1377.3	1550.1	1816.5	1836.3	1640.8	1473.6	1317.7	1326.2
55°	10094.2	7223.5	1445.3	1300.7	1459.4	1728.7	1802.3	1598.3	1348.9	1241.2	1238.4
57.5°	10176.4	6874.9	1283.7	1221.4	1382.9	1635.1	1745.7	1470.8	1292.2	1201.6	1190.2
60°	9907.1	6265.6	1156.2	1136.4	1286.6	1538.8	1615.3	1402.8	1235.6	1161.9	1144.9
62.5°	9244.0	5633.7	1068.4	1096.7	1204.4	1433.9	1533.1	1354.6	1181.7	1130.7	1093.9
65°	7580.6	4633.3	997.5	1020.2	1119.4	1331.9	1482.1	1300.7	1133.5	1085.4	1082.5
67.5°	5251.1	3193.8	940.8	983.3	1051.4	1258.2	1431.1	1241.2	1071.2	1054.2	1031.5
70°	2689.3	1703.1	867.2	901.2	977.7	1164.7	1340.4	1178.9	1006.0	1003.2	974.8
72.5°	1363.1	997.5	782.1	833.2	887.0	1042.9	1227.1	1096.7	923.8	892.7	847.3
73°	1178.9	923.8	768.0	813.3	864.3	1008.9	1193.1	1076.9	912.5	867.2	824.7
75°	858.7	728.3	688.6	734.0	773.6	909.7	1079.7	986.2	838.8	790.6	751.0
77.5°	643.3	561.1	572.4	623.4	657.5	785.0	960.7	892.7	759.5	694.3	677.3
80°	473.3	427.9	473.3	521.4	546.9	691.5	875.7	773.6	640.5	566.8	552.6
82.5°	337.2	311.7	365.6	396.7	408.1	572.4	787.8	617.8	484.6	388.2	357.1
85°	192.7	189.9	246.5	243.7	252.2	334.4	518.6	410.9	311.7	238.0	232.4
87.5°	85.0	93.5	124.7	99.2	104.9	158.7	221.0	153.0	127.5	70.8	53.8
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)