

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: P478227

Luminaire Tested: **IFLD-L-SA8C-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

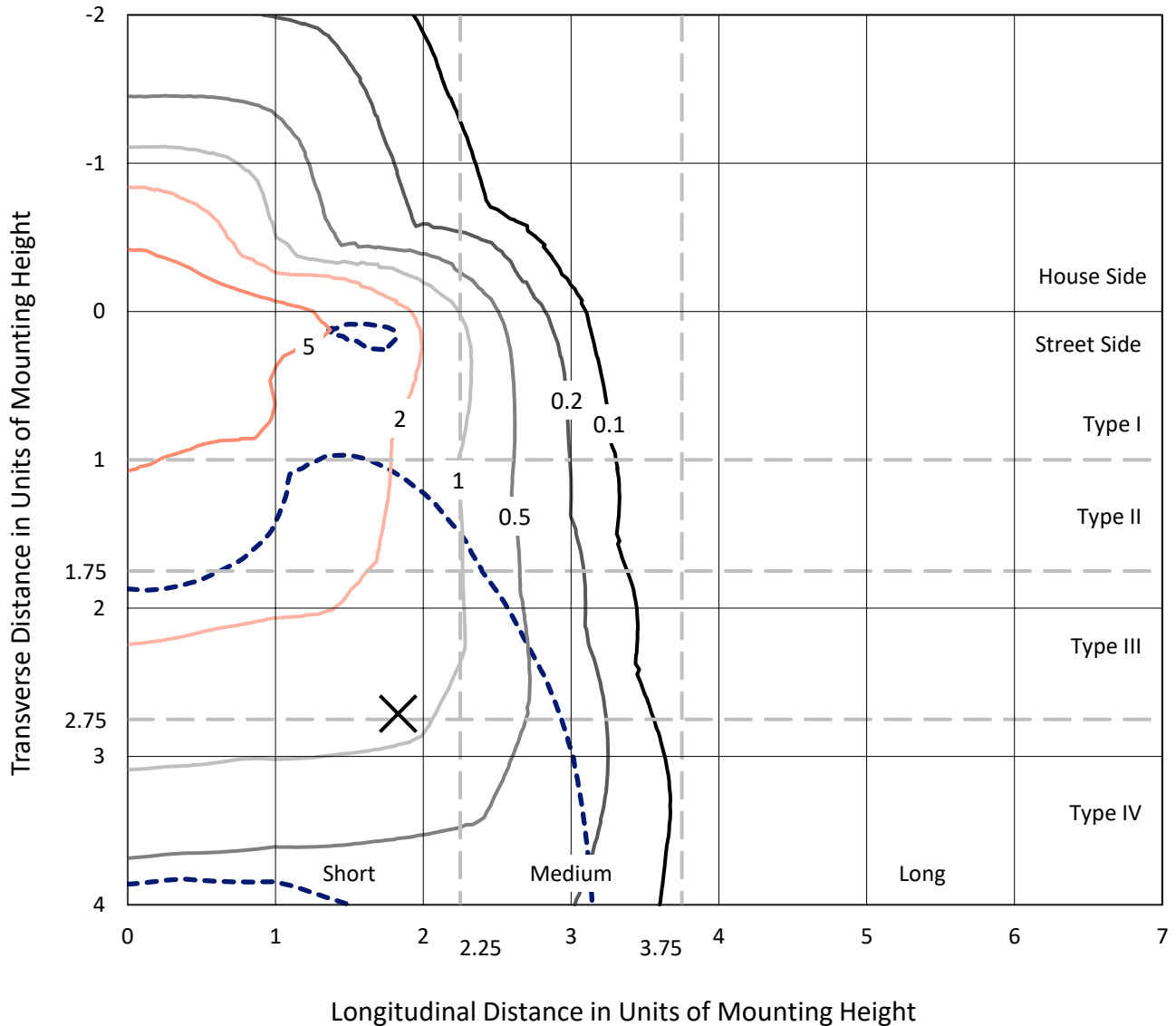
Lumens per Lamp: N/A
Luminaire Lumens: 53093.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

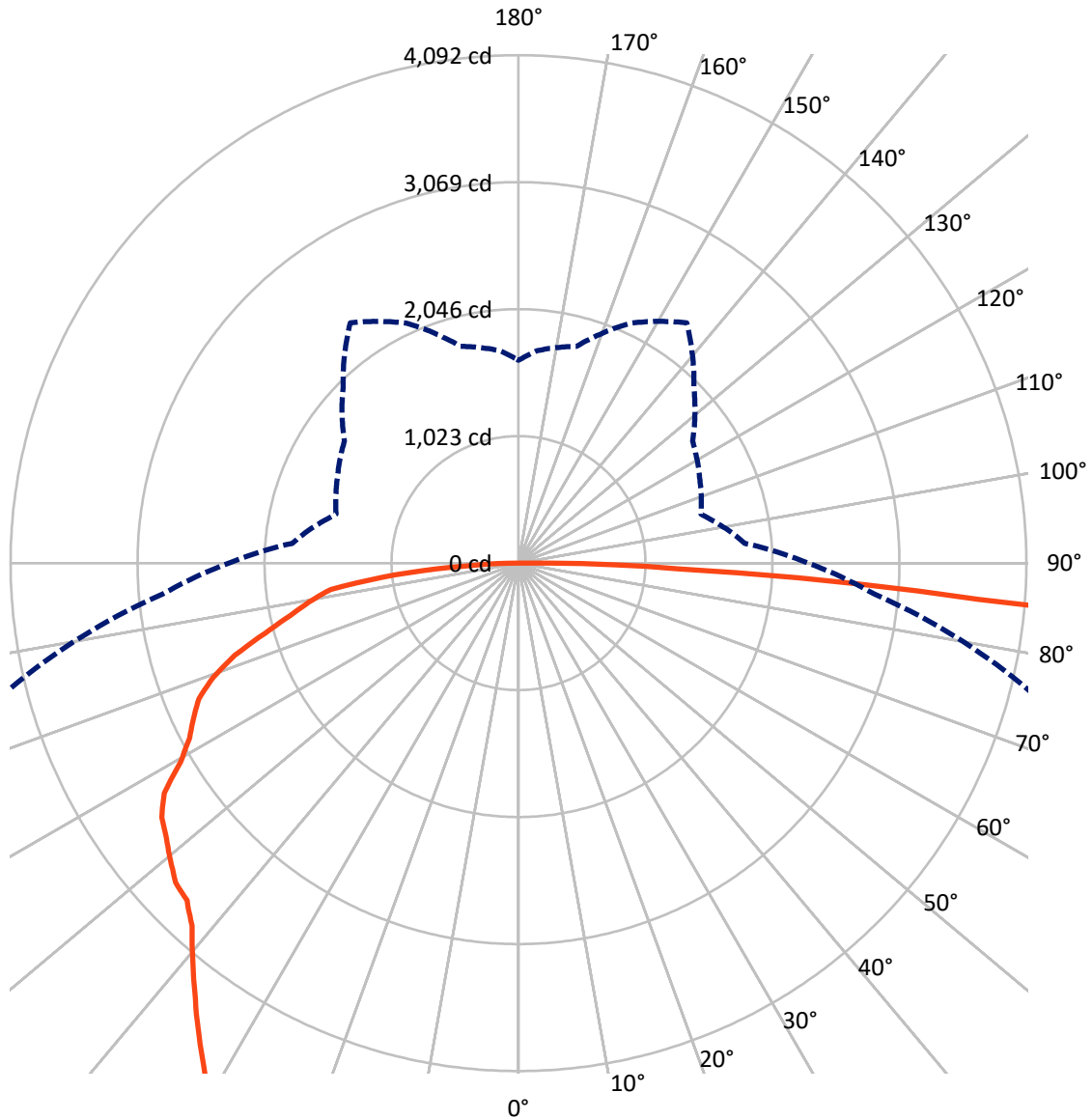
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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	11468.8	0.0	11468.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41624.6	0.0	41624.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	53093.4	0.0	53093.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.5	1.3
10°-20°	1966.1	3.7
20°-30°	3235.9	6.1
30°-40°	4839.2	9.1
40°-50°	7174.0	13.5
50°-60°	10338.5	19.5
60°-70°	13193.3	24.8
70°-80°	10266.6	19.3
80°-90°	1377.3	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°	53093.4	100.0
0°-180°	53093.4	100.0

Coefficient of Utilization



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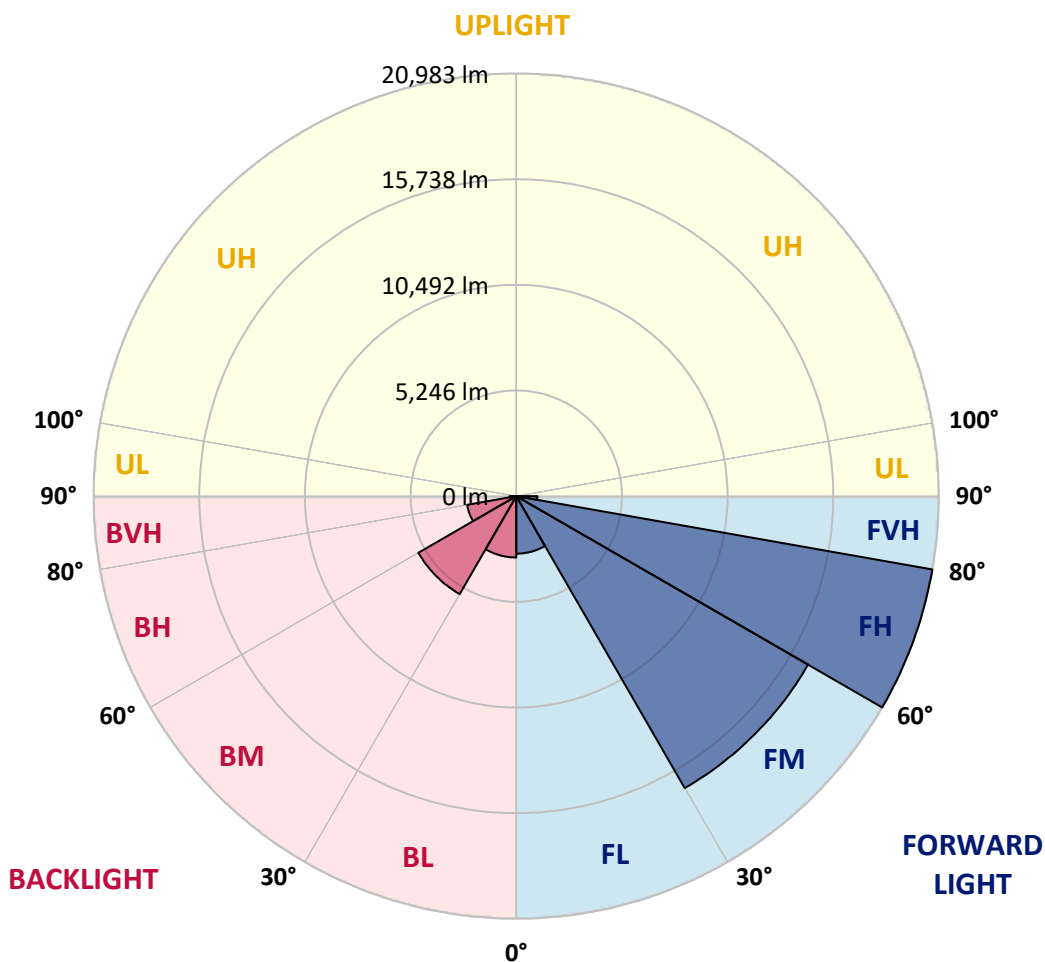
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.3	5.4			
FM (30°-60°)	16735.4	31.5			
FH (60°-80°)	20983.5	39.5			G5
FVH (80°-90°)	1048.4	2.0			G5
BL (0°-30°)	3047.2	5.7	B4/5000		
BM (30°-60°)	5616.3	10.6	B4/8500		
BH (60°-80°)	2476.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	328.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8
2.5°	6820.3	6842.7	6915.7	6932.6	7011.1	6966.2	7061.7	7230.1	7325.5	7465.8	7634.2
5°	6281.4	6186.0	6230.9	6404.9	6494.7	6517.2	6618.2	6904.5	7084.1	7291.8	7606.2
7.5°	5647.1	5630.2	5720.1	5832.3	6012.0	6028.8	6253.3	6505.9	6876.4	7336.7	7707.2
10°	5214.9	5287.8	5338.3	5456.2	5579.7	5579.7	5866.0	6303.9	6724.9	7168.3	7729.7
12.5°	5192.4	5147.5	5158.7	5220.5	5310.3	5422.5	5692.0	6084.9	6618.2	7134.6	7825.1
15°	5265.4	5282.2	5181.2	5259.8	5293.4	5332.7	5630.2	6073.7	6550.8	7252.5	7987.9
17.5°	5652.7	5557.3	5400.1	5327.1	5445.0	5445.0	5647.1	5995.1	6562.1	7314.3	8223.6
20°	5955.8	5955.8	5697.6	5619.0	5703.2	5686.4	5826.7	6084.9	6618.2	7437.8	8487.5
22.5°	6466.6	6539.6	6113.0	5950.2	5944.6	5989.5	6113.0	6331.9	6775.4	7611.8	8740.1
25°	7202.0	7218.8	6724.9	6556.5	6376.8	6449.8	6472.3	6691.2	6915.7	7813.9	9026.4
27.5°	8021.6	8010.3	7555.6	7134.6	7016.8	7033.6	6910.1	7056.0	7123.4	7875.6	9436.1
30°	8930.9	8829.9	8487.5	7892.4	7797.0	7690.4	7420.9	7415.3	7555.6	8223.6	10003.1
32.5°	9525.9	9396.8	9161.1	8734.5	8470.6	8481.9	8055.2	8049.6	7926.1	8605.3	10497.1
35°	10109.7	9913.3	9851.5	9413.7	9149.8	9177.9	8835.5	8790.6	8566.1	9183.5	11311.0
37.5°	10811.4	10637.4	10732.8	10401.6	10076.1	9941.3	9784.2	9728.0	9436.1	9997.5	12422.5
40°	11586.1	11529.9	11468.2	11305.4	11108.9	11120.2	10951.8	10895.6	10463.4	10979.8	13489.0
42.5°	12630.2	12416.9	12096.9	12203.5	12304.6	12411.2	12355.1	12209.2	11760.1	11979.0	14679.1
45°	13601.3	13320.6	12731.2	12764.9	13180.3	13264.5	13943.7	13926.9	13023.1	13247.6	16031.9
47.5°	14258.0	14128.9	13775.3	13736.0	14331.0	14325.4	15549.1	15549.1	14353.5	14510.7	17485.8
50°	15234.8	14898.0	14746.4	14942.9	15246.0	15453.7	17188.2	17294.9	15661.4	15829.8	19388.7
52.5°	16379.9	15958.9	15577.2	16082.4	16621.3	16756.0	18810.5	18765.6	16666.2	17362.3	21617.2
55°	17328.6	17115.3	16851.4	17143.3	18024.6	18193.0	20438.4	20023.0	17671.0	18630.9	22689.4
57.5°	18434.4	18563.5	18619.7	18546.7	19596.4	19860.2	22296.4	21106.4	18535.5	19484.1	23318.1
60°	20101.6	20180.2	20253.2	20427.2	21538.6	21909.1	23767.2	22464.8	19080.0	19978.1	23368.6
62.5°	22638.9	22335.7	22498.5	23099.2	23991.7	24412.7	25933.9	23419.1	19495.4	20275.6	21718.3
65°	25541.0	25131.2	24962.8	25737.5	28050.2	27713.4	28639.6	24132.0	18894.7	19164.2	18417.6
67.5°	28482.4	28527.3	28095.1	29650.0	32484.8	32484.8	31154.4	24474.4	17266.8	15532.3	12916.4
70°	30817.6	30957.9	31193.7	34208.1	38698.8	39378.0	34269.8	23071.1	13949.3	10339.9	7061.7
72.5°	30783.9	30362.9	31569.8	37121.4	44345.9	43778.9	34921.0	18243.6	8706.4	5063.3	3238.9
73°	30093.5	29739.8	31059.0	37093.4	44576.0	44042.8	34443.8	16817.8	7679.1	4389.7	2879.7
75°	24575.5	23935.6	26180.9	33596.2	41241.7	41651.5	29262.7	10968.6	4210.1	2705.7	2026.4
77.5°	11204.4	11485.0	14409.6	22537.8	31783.1	32265.8	19237.1	4743.3	2307.1	1897.3	1493.2
80°	3598.2	3777.8	5607.8	11204.4	19922.0	20792.0	8891.6	2155.5	1644.7	1453.9	1117.1
82.5°	1375.3	1369.7	2352.0	4659.1	9441.7	9997.5	3250.2	1313.5	1223.7	1072.2	791.5
85°	482.8	505.2	886.9	1841.2	3716.1	3890.1	1128.3	729.7	847.6	718.5	454.7
87.5°	168.4	174.0	314.4	668.0	1279.9	1352.8	314.4	291.9	421.0	415.4	230.1
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°	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8	7611.8
2.5°	7690.4	7740.9	7757.7	7959.8	7959.8	7959.8	8038.4	8038.4	8015.9	7959.8	8094.5
5°	7724.0	7813.9	7987.9	8161.9	8206.8	8246.1	8352.7	8262.9	8296.6	8240.5	8291.0
7.5°	7819.5	7943.0	8268.5	8375.2	8302.2	8386.4	8274.2	8212.4	8150.7	8173.1	8094.5
10°	7982.3	8139.4	8291.0	8487.5	8347.1	8262.9	8032.8	7976.6	7780.2	7712.8	7774.6
12.5°	8184.3	8375.2	8633.4	8560.4	8291.0	8049.6	7802.6	7566.9	7449.0	7280.6	7325.5
15°	8386.4	8605.3	8644.6	8521.1	8184.3	7881.2	7432.1	7101.0	6983.1	6831.5	6910.1
17.5°	8605.3	8813.0	8745.7	8425.7	7971.0	7510.7	6999.9	6674.3	6427.3	6331.9	6331.9
20°	8930.9	9032.0	8925.3	8268.5	7712.8	7106.6	6612.6	6242.1	5995.1	5955.8	5894.1
22.5°	9183.5	9346.3	8869.2	8038.4	7336.7	6578.9	6012.0	5871.6	5798.6	5736.9	5658.3
25°	9509.1	9503.5	8768.1	7825.1	6691.2	5950.2	5607.8	5596.6	5562.9	5540.4	5647.1
27.5°	9817.8	9688.7	8650.3	7297.4	6023.2	5473.1	5287.8	5411.3	5461.8	5428.2	5473.1
30°	10306.2	10092.9	8481.9	6736.1	5433.8	4990.3	5024.0	5192.4	5276.6	5327.1	5259.8
32.5°	10822.6	10497.1	8133.8	6152.3	4911.7	4687.2	4765.8	4939.8	5040.8	5097.0	5158.7
35°	11569.2	10811.4	7780.2	5388.9	4535.6	4502.0	4546.9	4642.3	4788.2	4827.5	4844.4
37.5°	12489.8	11288.6	7303.0	4777.0	4243.7	4283.0	4327.9	4361.6	4367.2	4440.2	4412.1
40°	13410.4	11692.7	6607.0	4193.2	3940.6	4153.9	4131.5	4069.7	4019.2	3951.8	3935.0
42.5°	14218.8	12046.4	5832.3	3699.2	3671.2	4019.2	3946.2	3789.0	3671.2	3620.6	3536.4
45°	15128.1	12546.0	5052.1	3390.5	3463.5	3856.4	3834.0	3592.6	3441.0	3261.4	3238.9
47.5°	16306.9	13068.0	4305.5	3070.5	3267.0	3794.7	3805.9	3497.2	3278.2	3036.9	3003.2
50°	17816.9	13820.2	3738.5	2935.8	3149.1	3704.8	3721.7	3368.0	3081.8	2834.8	2812.3
52.5°	19265.2	14589.2	3267.0	2728.1	3070.5	3598.2	3637.5	3250.2	2919.0	2610.2	2627.1
55°	19994.9	14308.6	2862.8	2576.6	2890.9	3424.2	3570.1	3166.0	2672.0	2458.7	2453.1
57.5°	20157.7	13618.1	2542.9	2419.4	2739.3	3238.9	3457.9	2913.4	2559.7	2380.1	2357.6
60°	19624.5	12411.2	2290.3	2251.0	2548.5	3048.1	3199.6	2778.6	2447.4	2301.5	2267.8
62.5°	18310.9	11159.4	2116.3	2172.4	2385.7	2840.4	3036.9	2683.2	2340.8	2239.7	2166.8
65°	15015.9	9177.9	1975.9	2020.8	2217.3	2638.3	2935.8	2576.6	2245.4	2149.9	2144.3
67.5°	10401.6	6326.3	1863.7	1947.9	2082.6	2492.4	2834.8	2458.7	2121.9	2088.2	2043.3
70°	5327.1	3373.7	1717.7	1785.1	1936.6	2307.1	2655.1	2335.2	1992.8	1987.1	1931.0
72.5°	2700.0	1975.9	1549.3	1650.3	1757.0	2065.7	2430.6	2172.4	1830.0	1768.2	1678.4
73°	2335.2	1830.0	1521.2	1611.0	1712.1	1998.4	2363.2	2133.1	1807.5	1717.7	1633.5
75°	1700.9	1442.6	1364.1	1453.9	1532.5	1801.9	2138.7	1953.5	1661.6	1566.1	1487.6
77.5°	1274.2	1111.5	1133.9	1234.9	1302.3	1554.9	1902.9	1768.2	1504.4	1375.3	1341.6
80°	937.4	847.6	937.4	1032.9	1083.4	1369.7	1734.5	1532.5	1268.6	1122.7	1094.6
82.5°	668.0	617.5	724.1	785.9	808.3	1133.9	1560.5	1223.7	959.9	769.0	707.3
85°	381.7	376.1	488.4	482.8	499.6	662.4	1027.3	813.9	617.5	471.5	460.3
87.5°	168.4	185.2	247.0	196.5	207.7	314.4	437.8	303.1	252.6	140.3	106.7
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)