

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: P478188

Luminaire Tested: **IFLD-L-SA8C-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

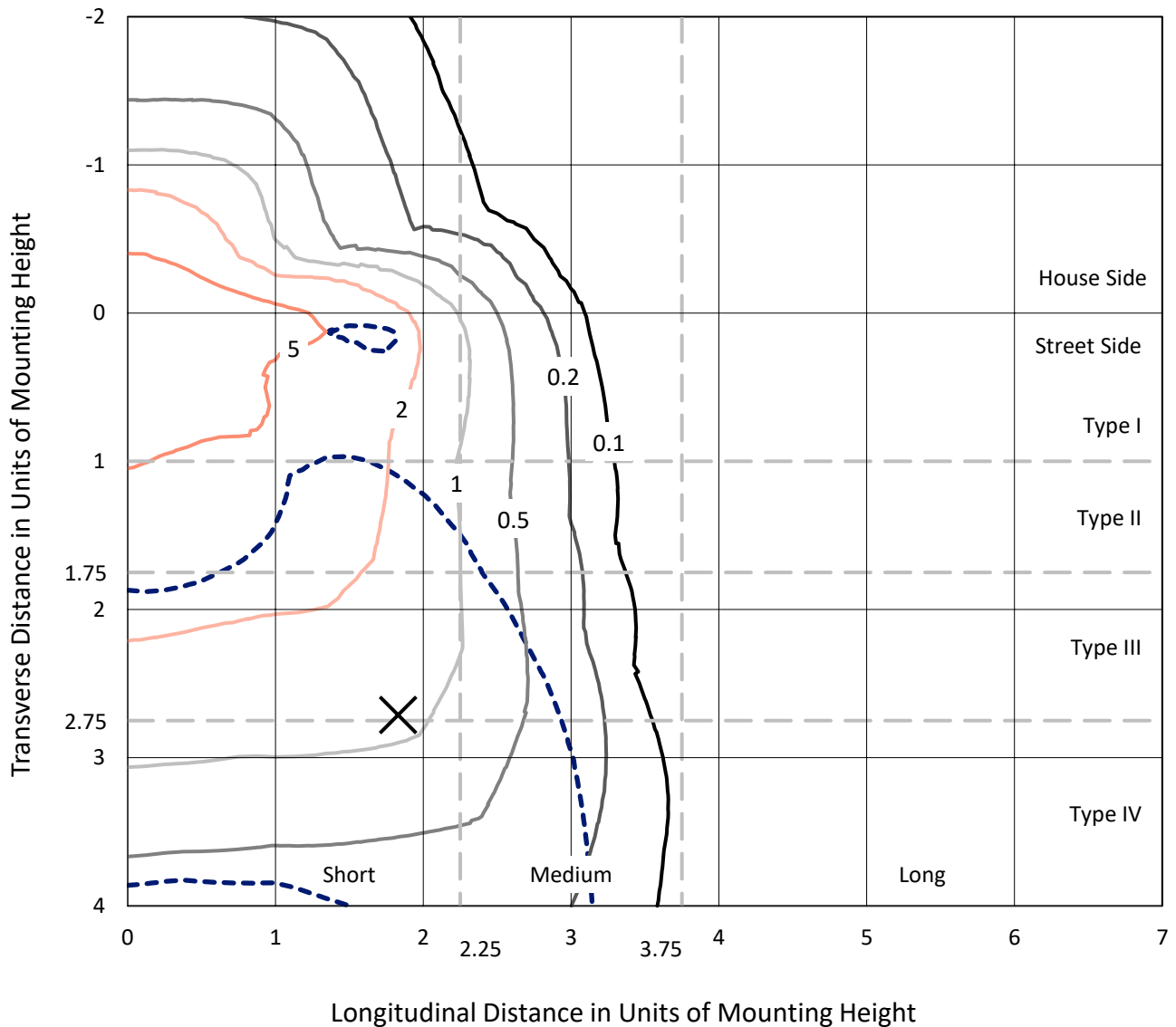
Lumens per Lamp: N/A
Luminaire Lumens: 51904.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

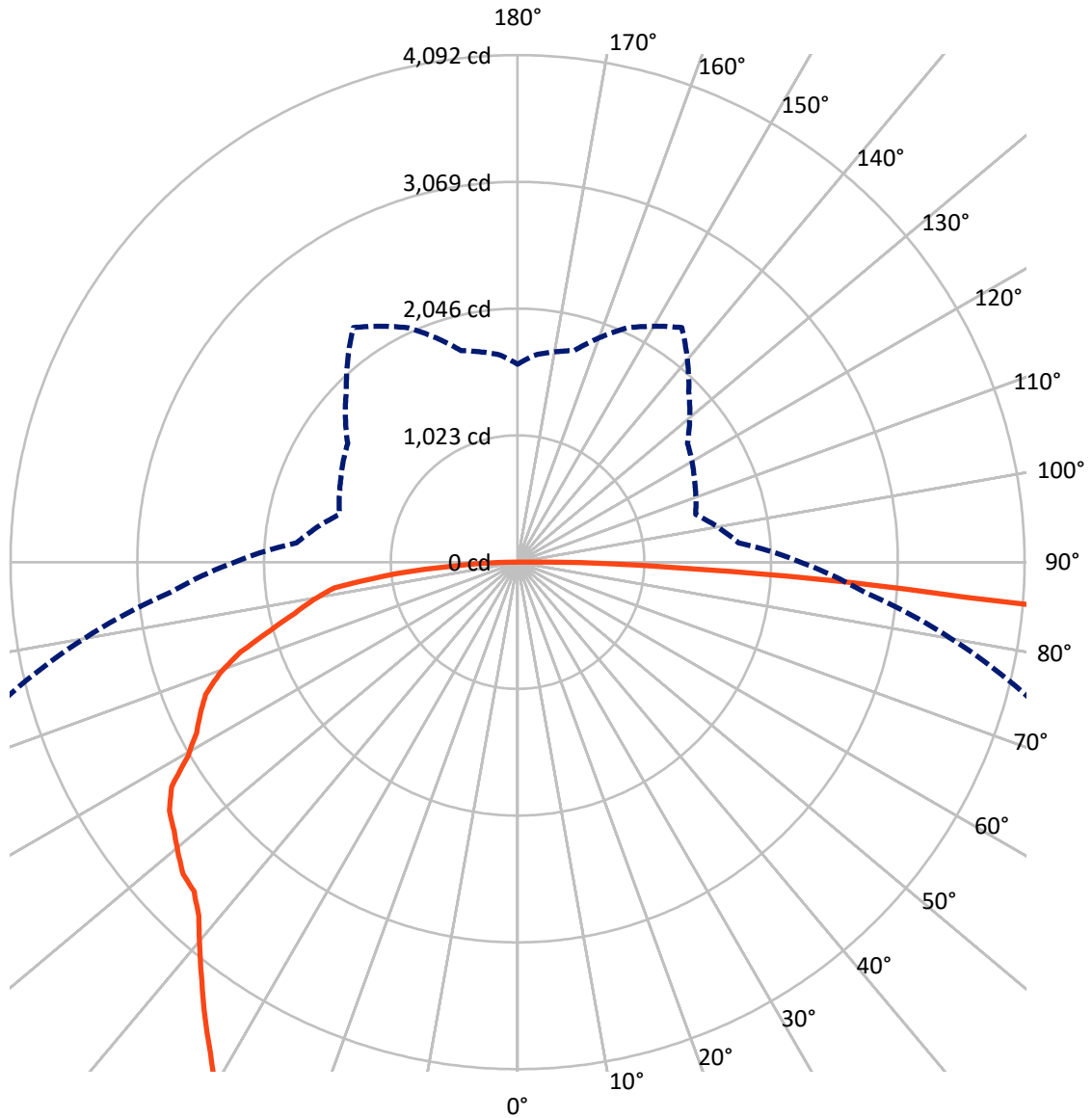
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	11212.1	0.0	11212.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	40692.7	0.0	40692.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	51904.8	0.0	51904.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.8	1.3
10°-20°	1922.1	3.7
20°-30°	3163.5	6.1
30°-40°	4730.9	9.1
40°-50°	7013.4	13.5
50°-60°	10107.0	19.5
60°-70°	12897.9	24.8
70°-80°	10036.7	19.3
80°-90°	1346.5	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°	51904.8	100.0
0°-180°	51904.8	100.0

Coefficient of Utilization



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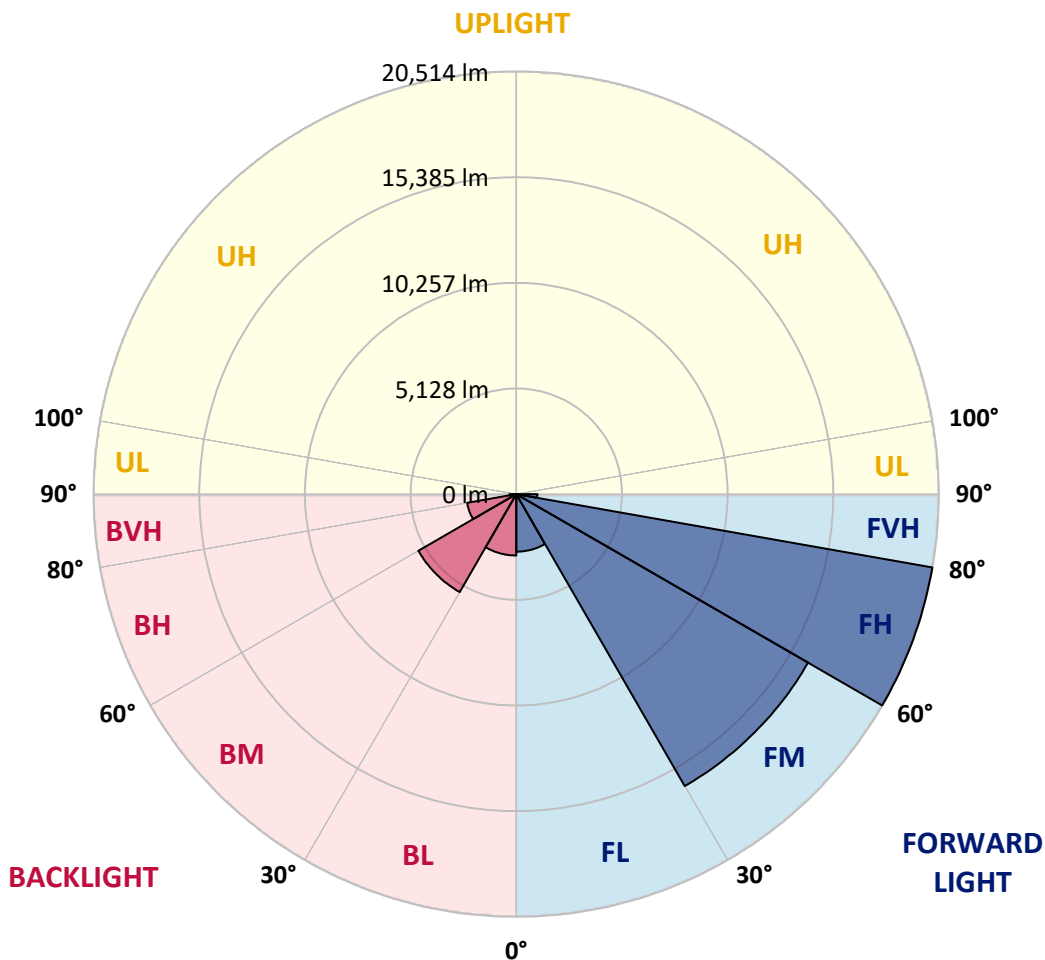
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.4	5.4			
FM (30°-60°)	16360.7	31.5			
FH (60°-80°)	20513.7	39.5			G5
FVH (80°-90°)	1024.9	2.0			G5
BL (0°-30°)	2979.0	5.7	B4/5000		
BM (30°-60°)	5490.6	10.6	B4/8500		
BH (60°-80°)	2420.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	321.6	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°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	6667.6	6689.5	6760.9	6777.4	6854.2	6810.3	6903.6	7068.2	7161.5	7298.7	7463.3
5°	6140.8	6047.5	6091.4	6261.5	6349.3	6371.3	6470.0	6749.9	6925.5	7128.6	7435.9
7.5°	5520.7	5504.2	5592.0	5701.8	5877.4	5893.8	6113.3	6360.3	6722.5	7172.5	7534.7
10°	5098.1	5169.4	5218.8	5334.1	5454.8	5454.8	5734.7	6162.7	6574.3	7007.8	7556.6
12.5°	5076.2	5032.3	5043.2	5103.6	5191.4	5301.2	5564.6	5948.7	6470.0	6974.9	7649.9
15°	5147.5	5164.0	5065.2	5142.0	5174.9	5213.3	5504.2	5937.7	6404.2	7090.2	7809.0
17.5°	5526.1	5432.9	5279.2	5207.9	5323.1	5323.1	5520.7	5860.9	6415.2	7150.5	8039.5
20°	5822.5	5822.5	5570.1	5493.2	5575.5	5559.1	5696.3	5948.7	6470.0	7271.2	8297.5
22.5°	6321.9	6393.2	5976.1	5817.0	5811.5	5855.4	5976.1	6190.2	6623.7	7441.4	8544.4
25°	7040.8	7057.2	6574.3	6409.7	6234.1	6305.4	6327.4	6541.4	6760.9	7638.9	8824.3
27.5°	7842.0	7831.0	7386.5	6974.9	6859.7	6876.1	6755.4	6898.1	6963.9	7699.3	9224.9
30°	8731.0	8632.2	8297.5	7715.8	7622.5	7518.2	7254.8	7249.3	7386.5	8039.5	9779.1
32.5°	9312.7	9186.5	8956.0	8538.9	8281.0	8292.0	7874.9	7869.4	7748.7	8412.7	10262.1
35°	9883.4	9691.3	9631.0	9202.9	8945.0	8972.4	8637.7	8593.8	8374.3	8977.9	11057.8
37.5°	10569.4	10399.3	10492.5	10168.8	9850.5	9718.8	9565.1	9510.2	9224.9	9773.7	12144.4
40°	11326.7	11271.8	11211.4	11052.3	10860.2	10871.2	10706.6	10651.7	10229.1	10734.0	13187.0
42.5°	12347.4	12138.9	11826.1	11930.3	12029.1	12133.4	12078.5	11935.8	11496.8	11710.8	14350.4
45°	13296.8	13022.4	12446.2	12479.1	12885.2	12967.5	13631.5	13615.1	12731.5	12951.1	15673.0
47.5°	13938.8	13812.6	13466.9	13428.5	14010.2	14004.7	15201.0	15201.0	14032.1	14185.8	17094.3
50°	14893.7	14564.4	14416.3	14608.4	14904.7	15107.7	16803.4	16907.7	15310.8	15475.4	18954.6
52.5°	16013.2	15601.6	15228.5	15722.4	16249.2	16380.9	18389.4	18345.5	16293.1	16973.6	21133.3
55°	16940.6	16732.1	16474.2	16759.5	17621.1	17785.7	19980.8	19574.8	17275.4	18213.8	22181.4
57.5°	18021.7	18147.9	18202.8	18131.5	19157.7	19415.6	21797.3	20633.9	18120.5	19047.9	22796.1
60°	19651.6	19728.4	19799.7	19969.9	21056.4	21418.6	23235.1	21961.9	18652.8	19530.8	22845.4
62.5°	22132.0	21835.7	21994.8	22582.0	23454.6	23866.2	25353.3	22894.8	19058.9	19821.7	21232.0
65°	24969.2	24568.6	24404.0	25161.3	27422.2	27092.9	27998.4	23591.8	18471.7	18735.1	18005.3
67.5°	27844.8	27888.7	27466.1	28986.2	31757.5	31757.5	30456.9	23926.5	16880.3	15184.6	12627.3
70°	30127.7	30264.9	30495.3	33442.3	37832.4	38496.5	33502.6	22554.6	13637.0	10108.4	6903.6
72.5°	30094.7	29683.2	30863.0	36290.4	43353.1	42798.8	34139.2	17835.1	8511.5	4949.9	3166.4
73°	29419.7	29074.0	30363.6	36263.0	43578.1	43056.8	33672.7	16441.3	7507.2	4291.4	2815.2
75°	24025.3	23399.7	25594.8	32844.1	40318.4	40719.0	28607.6	10723.0	4115.8	2645.1	1981.1
77.5°	10953.5	11227.9	14087.0	22033.3	31071.6	31543.5	18806.5	4637.1	2255.5	1854.9	1459.7
80°	3517.6	3693.2	5482.2	10953.5	19476.0	20326.6	8692.6	2107.3	1607.9	1421.3	1092.1
82.5°	1344.5	1339.0	2299.4	4554.8	9230.4	9773.7	3177.4	1284.1	1196.3	1048.2	773.8
85°	471.9	493.9	867.1	1800.0	3632.9	3803.0	1103.0	713.4	828.6	702.4	444.5
87.5°	164.6	170.1	307.3	653.0	1251.2	1322.5	307.3	285.4	411.6	406.1	225.0
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°	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4	7441.4
2.5°	7518.2	7567.6	7584.1	7781.6	7781.6	7781.6	7858.4	7858.4	7836.5	7781.6	7913.3
5°	7551.1	7638.9	7809.0	7979.2	8023.1	8061.5	8165.8	8077.9	8110.9	8056.0	8105.4
7.5°	7644.4	7765.1	8083.4	8187.7	8116.4	8198.7	8088.9	8028.6	7968.2	7990.1	7913.3
10°	7803.6	7957.2	8105.4	8297.5	8160.3	8077.9	7852.9	7798.1	7606.0	7540.1	7600.5
12.5°	8001.1	8187.7	8440.1	8368.8	8105.4	7869.4	7628.0	7397.5	7282.2	7117.6	7161.5
15°	8198.7	8412.7	8451.1	8330.4	8001.1	7704.8	7265.8	6942.0	6826.7	6678.6	6755.4
17.5°	8412.7	8615.7	8549.9	8237.1	7792.6	7342.6	6843.2	6524.9	6283.5	6190.2	6190.2
20°	8731.0	8829.8	8725.5	8083.4	7540.1	6947.5	6464.6	6102.4	5860.9	5822.5	5762.1
22.5°	8977.9	9137.1	8670.6	7858.4	7172.5	6431.6	5877.4	5740.2	5668.8	5608.5	5531.6
25°	9296.2	9290.7	8571.8	7649.9	6541.4	5817.0	5482.2	5471.3	5438.3	5416.4	5520.7
27.5°	9598.0	9471.8	8456.6	7134.1	5888.3	5350.5	5169.4	5290.2	5339.6	5306.6	5350.5
30°	10075.5	9866.9	8292.0	6585.3	5312.1	4878.6	4911.5	5076.2	5158.5	5207.9	5142.0
32.5°	10580.4	10262.1	7951.7	6014.6	4801.8	4582.3	4659.1	4829.2	4928.0	4982.9	5043.2
35°	11310.2	10569.4	7606.0	5268.2	4434.1	4401.2	4445.1	4538.4	4681.0	4719.5	4735.9
37.5°	12210.2	11035.8	7139.5	4670.1	4148.7	4187.1	4231.0	4264.0	4269.5	4340.8	4313.4
40°	13110.2	11431.0	6459.1	4099.3	3852.4	4060.9	4039.0	3978.6	3929.2	3863.4	3846.9
42.5°	13900.4	11776.7	5701.8	3616.4	3589.0	3929.2	3857.9	3704.2	3589.0	3539.6	3457.3
45°	14789.4	12265.1	4939.0	3314.6	3385.9	3770.1	3748.1	3512.2	3364.0	3188.4	3166.4
47.5°	15941.9	12775.4	4209.1	3001.8	3193.9	3709.7	3720.7	3418.9	3204.8	2968.9	2935.9
50°	17418.1	13510.8	3654.8	2870.1	3078.6	3621.9	3638.4	3292.6	3012.8	2771.3	2749.4
52.5°	18833.9	14262.6	3193.9	2667.0	3001.8	3517.6	3556.1	3177.4	2853.6	2551.8	2568.3
55°	19547.3	13988.2	2798.7	2518.9	2826.2	3347.5	3490.2	3095.1	2612.2	2403.6	2398.1
57.5°	19706.5	13313.2	2485.9	2365.2	2678.0	3166.4	3380.4	2848.1	2502.4	2326.8	2304.8
60°	19185.1	12133.4	2239.0	2200.6	2491.4	2979.8	3128.0	2716.4	2392.7	2250.0	2217.0
62.5°	17901.0	10909.6	2068.9	2123.8	2332.3	2776.8	2968.9	2623.1	2288.4	2189.6	2118.3
65°	14679.7	8972.4	1931.7	1975.6	2167.7	2579.2	2870.1	2518.9	2195.1	2101.8	2096.3
67.5°	10168.8	6184.7	1821.9	1904.2	2035.9	2436.6	2771.3	2403.6	2074.4	2041.4	1997.5
70°	5207.9	3298.1	1679.2	1745.1	1893.3	2255.5	2595.7	2282.9	1948.1	1942.7	1887.8
72.5°	2639.6	1931.7	1514.6	1613.4	1717.7	2019.5	2376.2	2123.8	1789.0	1728.6	1640.8
73°	2282.9	1789.0	1487.2	1575.0	1673.8	1953.6	2310.3	2085.3	1767.1	1679.2	1596.9
75°	1662.8	1410.3	1333.5	1421.3	1498.2	1761.6	2090.8	1909.7	1624.4	1531.1	1454.2
77.5°	1245.7	1086.6	1108.5	1207.3	1273.2	1520.1	1860.3	1728.6	1470.7	1344.5	1311.6
80°	916.5	828.6	916.5	1009.7	1059.1	1339.0	1695.7	1498.2	1240.2	1097.5	1070.1
82.5°	653.0	603.7	707.9	768.3	790.2	1108.5	1525.6	1196.3	938.4	751.8	691.5
85°	373.2	367.7	477.4	471.9	488.4	647.6	1004.3	795.7	603.7	461.0	450.0
87.5°	164.6	181.1	241.5	192.1	203.0	307.3	428.0	296.3	246.9	137.2	104.3
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)