

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: P476659

Luminaire Tested: **IFLD-M-SA4E-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476659  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

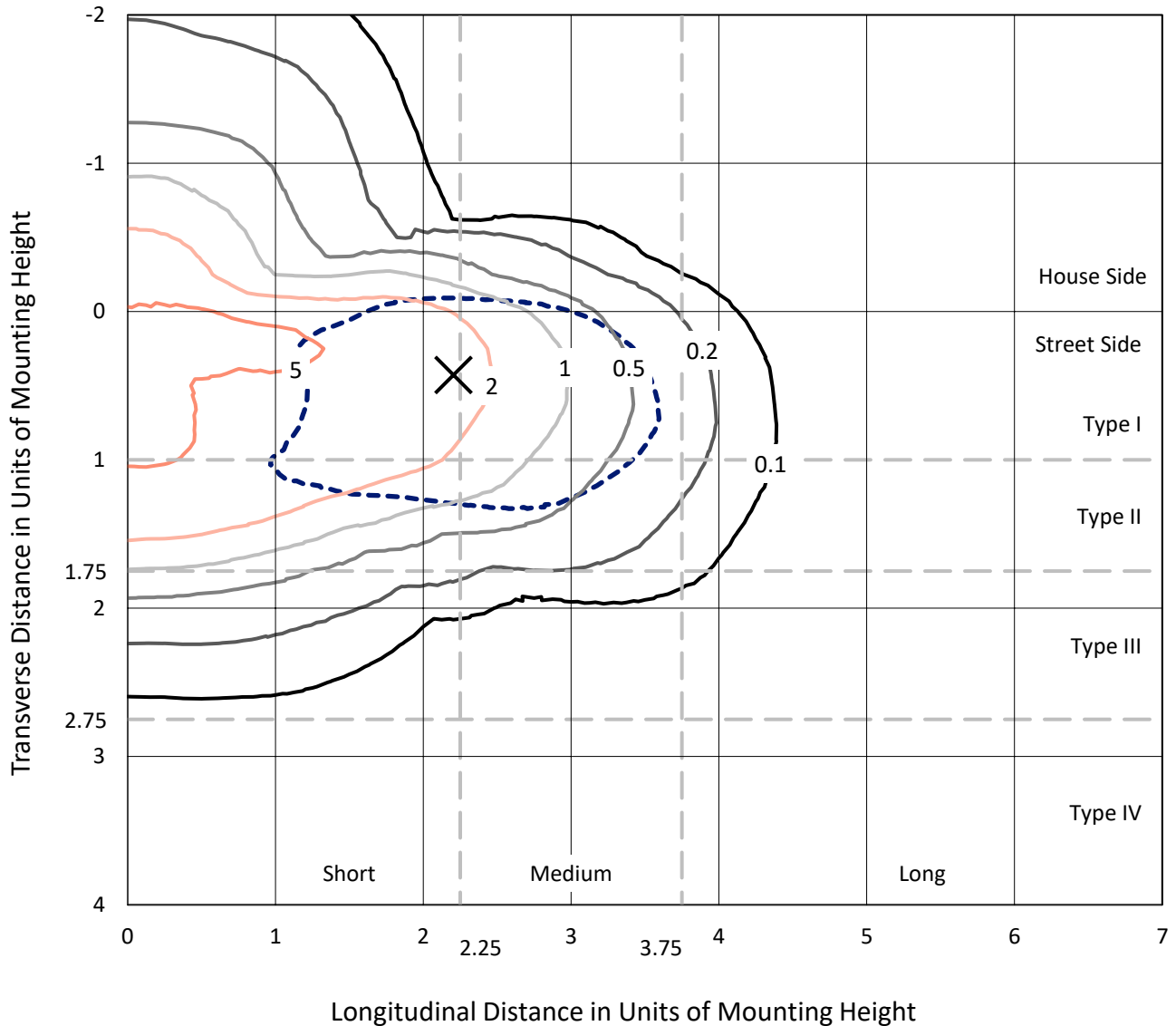
Lumens per Lamp: N/A  
Luminaire Lumens: 36989 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

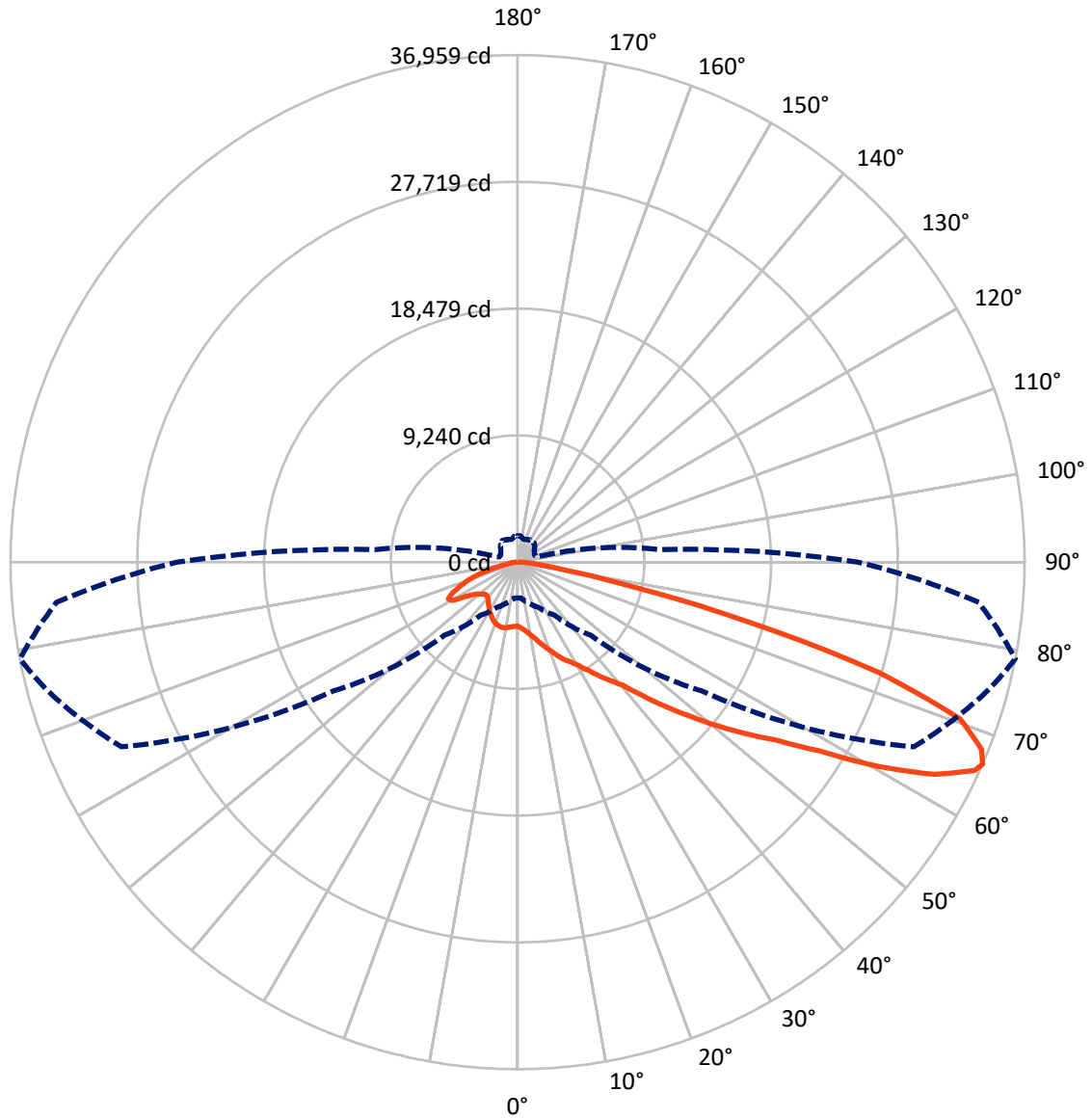
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7469.4	0.0	7469.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	29519.6	0.0	29519.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	36989.0	0.0	36989.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.3	1.2
10°-20°	1418.2	3.8
20°-30°	2434.4	6.6
30°-40°	3760.6	10.2
40°-50°	6023.6	16.3
50°-60°	8993.6	24.3
60°-70°	9240.9	25.0
70°-80°	4096.4	11.1
80°-90°	562.1	1.5
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°	36989.0	100.0
0°-180°	36989.0	100.0



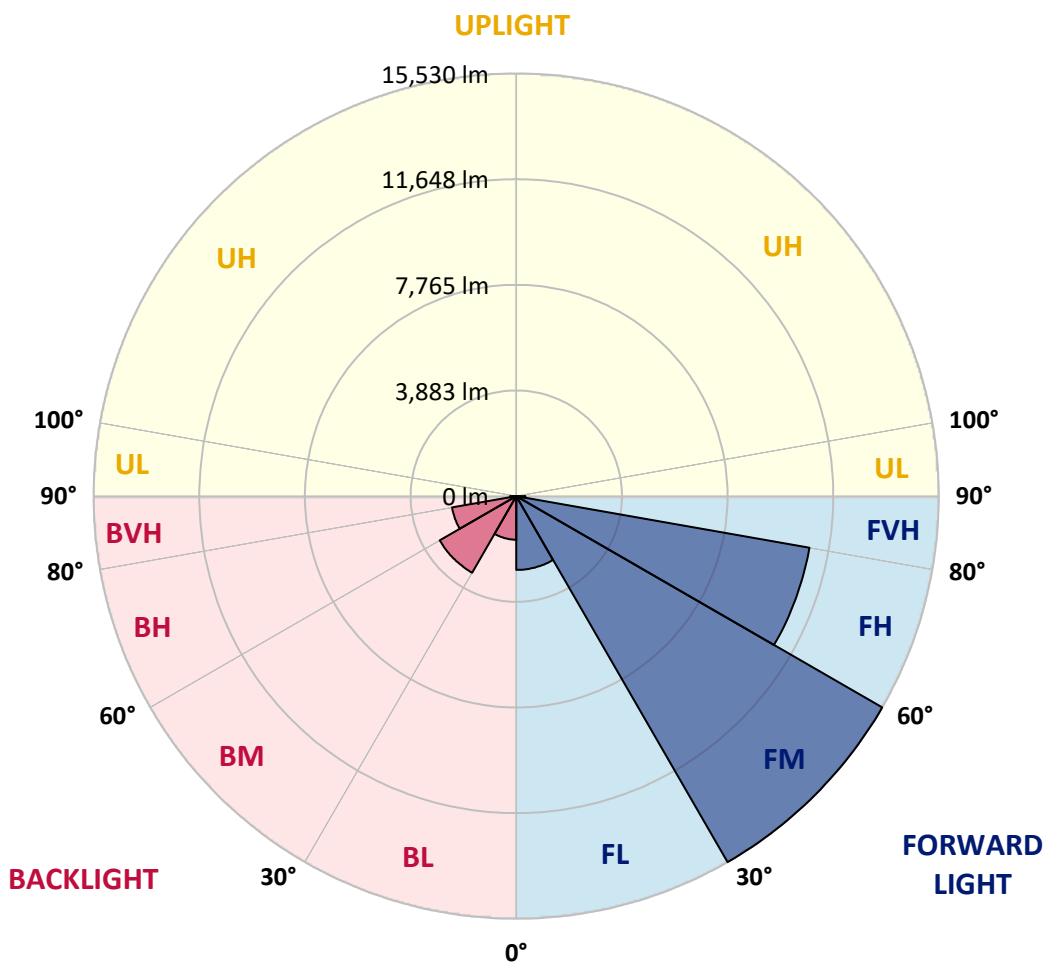
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2711.5	7.3			
FM (30°-60°)	15530.4	42.0			
FH (60°-80°)	10940.5	29.6			G4/12000
FVH (80°-90°)	337.1	0.9			G3/500
BL (0°-30°)	1600.3	4.3	B3/2500		
BM (30°-60°)	3247.4	8.8	B3/5000		
BH (60°-80°)	2396.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	225.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7
2.5°	4967.7	4971.8	4971.8	4955.5	4959.5	4971.8	4927.0	4829.4	4829.4	4813.1	4784.6
5°	5272.8	5252.5	5224.0	5228.1	5211.8	5211.8	5163.0	5069.4	4988.0	4955.5	4870.0
7.5°	5313.5	5333.9	5329.8	5378.6	5403.0	5403.0	5427.4	5350.1	5228.1	5150.8	5065.3
10°	5394.9	5342.0	5337.9	5451.8	5488.5	5573.9	5671.5	5630.9	5529.1	5419.3	5305.4
12.5°	5443.7	5476.3	5476.3	5533.2	5618.7	5744.8	5915.7	5993.0	5834.3	5720.4	5545.4
15°	5516.9	5472.2	5602.4	5651.2	5813.9	5903.4	6147.6	6346.9	6241.1	6102.8	5826.1
17.5°	5549.5	5521.0	5594.2	5683.7	5960.4	6094.7	6391.7	6668.3	6578.8	6489.3	6204.5
20°	5716.3	5712.2	5744.8	5818.0	6017.4	6281.8	6652.1	7034.5	7067.1	6904.3	6517.8
22.5°	6123.2	6070.3	6070.3	6041.8	6127.2	6399.8	6900.2	7429.2	7575.6	7384.4	6871.8
25°	6497.5	6570.7	6525.9	6395.7	6363.2	6505.6	7079.3	7848.2	8043.5	7864.5	7351.8
27.5°	6977.5	7002.0	7079.3	6904.3	6680.5	6725.3	7274.5	8084.2	8487.0	8246.9	7624.4
30°	7669.2	7624.4	7608.2	7412.9	7119.9	7058.9	7498.3	8430.0	9068.8	8731.1	7945.9
32.5°	8137.1	8246.9	8242.9	7974.3	7620.4	7486.1	7775.0	8755.5	9691.3	9378.0	8539.9
35°	9064.7	9178.6	9089.1	8694.5	8279.5	8011.0	8173.7	9178.6	10403.3	10159.1	9044.4
37.5°	10248.6	10517.2	10326.0	9597.7	9011.8	8718.9	8727.0	9638.4	11131.5	10932.2	9585.5
40°	11066.4	11428.5	11164.1	10480.6	9858.1	9581.4	9471.6	10183.6	12002.2	11790.6	10431.7
42.5°	12079.5	12380.6	12242.2	11566.9	10838.6	10602.6	10382.9	11094.9	13332.6	13235.0	11518.0
45°	13186.1	13328.5	13283.8	12856.6	12046.9	11965.6	11481.4	12295.1	14899.0	14939.7	12876.9
47.5°	14215.5	14292.8	14378.2	14069.0	13564.5	13633.7	12746.7	13580.8	16420.6	16689.1	14390.4
50°	14479.9	14744.4	14943.7	15151.2	15261.1	15729.0	14142.2	15159.4	18170.1	18690.9	16074.8
52.5°	14211.4	14191.1	14797.3	15448.2	16546.7	17527.3	16042.2	17120.4	19716.1	20745.5	17616.8
55°	12990.8	12950.2	13926.6	14789.1	16933.3	18528.1	18756.0	19732.4	21583.6	22922.1	19703.9
57.5°	10854.9	10602.6	11668.6	13084.4	16095.1	18638.0	21481.9	23609.7	24456.0	25981.7	22889.6
60°	7294.9	7189.1	8210.3	9898.8	13068.1	17079.7	23113.4	28463.5	28504.2	30221.1	27832.9
62.5°	4491.7	4512.0	5167.0	6432.4	9150.1	13540.1	22409.5	32340.8	32348.9	34069.9	31901.4
65°	2937.5	2949.7	3478.6	4178.4	5716.3	9182.7	18532.2	32646.0	35022.0	36620.9	33764.8
66°	2616.1	2620.1	3075.8	3645.4	4735.8	7514.6	16367.7	31852.6	35624.1	36958.6	33740.4
67.5°	2205.1	2258.0	2624.2	3063.6	3694.2	5399.0	12986.8	29557.9	35314.9	36486.7	32975.5
70°	1725.1	1753.5	2042.4	2489.9	2770.7	3124.6	7718.0	24093.9	32324.5	34224.5	30192.6
72.5°	1383.3	1407.7	1627.4	2022.1	2249.9	2058.7	4202.8	17482.5	25534.1	27560.3	23748.1
75°	1167.7	1171.7	1277.5	1590.8	1851.2	1546.0	2237.7	11221.0	16384.0	17327.9	14549.1
77.5°	943.9	960.2	1033.4	1212.4	1489.1	1216.5	1334.5	6285.9	8226.6	8295.7	6725.3
80°	769.0	777.1	821.8	882.9	1135.1	899.1	903.2	3067.7	3527.4	3446.1	2734.1
82.5°	606.2	614.3	667.2	655.0	834.1	642.8	561.5	1476.9	1623.3	1590.8	1257.2
85°	341.8	341.8	524.8	524.8	528.9	406.9	341.8	695.7	858.5	801.5	589.9
87.5°	109.9	113.9	158.7	166.8	264.5	183.1	166.8	260.4	406.9	358.0	211.6
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°	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7	4670.7
2.5°	4768.3	4703.2	4674.8	4581.2	4556.8	4495.7	4467.3	4430.6	4418.4	4365.5	4414.4
5°	4804.9	4784.6	4670.7	4552.7	4463.2	4422.5	4361.5	4280.1	4272.0	4198.7	4190.6
7.5°	4959.5	4890.4	4691.0	4564.9	4385.9	4284.2	4149.9	4109.2	4056.3	4031.9	4084.8
10°	5199.6	5024.6	4727.6	4410.3	4190.6	4068.5	3970.9	3942.4	3946.5	3930.2	3905.8
12.5°	5370.5	5203.7	4666.6	4280.1	3995.3	3877.3	3869.2	3897.7	3942.4	3922.1	3950.6
15°	5614.6	5301.3	4621.9	4064.5	3836.6	3804.1	3800.0	3885.5	3881.4	3881.4	3877.3
17.5°	5842.4	5399.0	4459.1	3877.3	3669.8	3694.2	3722.7	3718.6	3759.3	3775.6	3804.1
20°	6131.3	5512.9	4231.3	3690.2	3543.7	3535.6	3531.5	3535.6	3576.2	3600.7	3580.3
22.5°	6383.5	5537.3	4040.1	3511.1	3393.2	3360.6	3307.7	3360.6	3340.3	3348.4	3372.8
25°	6603.2	5541.3	3767.5	3376.9	3242.6	3169.4	3128.7	3124.6	3088.0	3084.0	3084.0
27.5°	6786.3	5403.0	3527.4	3189.7	3063.6	2994.4	2990.4	2945.6	2852.0	2791.0	2799.2
30°	6928.7	5297.2	3360.6	3027.0	2904.9	2892.7	2856.1	2754.4	2632.3	2555.0	2555.0
32.5°	7181.0	5085.7	3132.8	2860.2	2799.2	2782.9	2697.4	2607.9	2494.0	2420.8	2408.6
35°	7368.1	4890.4	2982.2	2717.8	2689.3	2656.8	2583.5	2485.9	2453.3	2437.1	2449.3
37.5°	7579.7	4670.7	2799.2	2595.7	2624.2	2563.2	2477.7	2433.0	2546.9	2518.4	2530.6
40°	7917.4	4516.1	2620.1	2522.5	2551.0	2481.8	2372.0	2355.7	2498.1	2396.4	2372.0
42.5°	8535.8	4512.0	2510.3	2412.6	2433.0	2380.1	2282.5	2274.3	2331.3	2209.2	2172.6
45°	9304.7	4654.4	2428.9	2331.3	2315.0	2306.9	2274.3	2237.7	2188.9	2030.2	1989.5
47.5°	10224.2	4886.3	2412.6	2209.2	2229.6	2298.7	2258.0	2164.5	2038.3	1936.6	1916.3
50°	11339.0	5366.4	2372.0	2119.7	2156.3	2266.2	2233.6	2103.4	1989.5	1924.4	1912.2
52.5°	12571.8	5972.6	2319.1	1981.4	2062.7	2237.7	2254.0	2131.9	1965.1	1908.1	1900.0
55°	14024.3	6867.7	2258.0	1830.8	1952.9	2209.2	2254.0	2050.5	1932.6	1932.6	1924.4
57.5°	16892.6	8478.8	2131.9	1692.5	1855.3	2156.3	2188.9	2054.6	1936.6	1936.6	1920.4
60°	21099.4	10993.2	1891.9	1586.7	1761.7	2083.1	2140.1	1993.6	1891.9	1916.3	1912.2
62.5°	24390.9	11758.1	1688.4	1485.0	1668.1	1948.8	2075.0	1928.5	1839.0	1928.5	1936.6
65°	25094.7	10985.1	1480.9	1375.2	1537.9	1818.6	1981.4	1834.9	1761.7	1936.6	1944.8
66°	24842.5	10382.9	1407.7	1342.6	1480.9	1753.5	1924.4	1802.4	1721.0	1928.5	1932.6
67.5°	23719.6	9479.7	1326.3	1273.5	1403.6	1660.0	1859.3	1757.6	1655.9	1904.1	1867.5
70°	21278.5	8039.4	1188.0	1151.4	1293.8	1505.4	1708.8	1643.7	1554.2	1753.5	1688.4
72.5°	16388.1	6424.2	1041.5	1045.6	1167.7	1346.7	1558.3	1513.5	1436.2	1537.9	1497.2
75°	9980.1	4105.2	907.3	915.4	1017.1	1196.2	1415.9	1383.3	1289.7	1346.7	1326.3
77.5°	4422.5	2034.3	764.9	781.2	862.5	1053.8	1232.8	1179.9	1082.2	1094.4	1086.3
80°	1716.9	964.2	622.5	642.8	695.7	842.2	1021.2	972.4	886.9	870.7	862.5
82.5°	825.9	537.0	480.1	488.2	508.6	671.3	878.8	817.8	703.9	630.6	630.6
85°	415.0	333.6	337.7	309.2	337.7	455.7	594.0	496.4	410.9	366.2	374.3
87.5°	166.8	166.8	166.8	142.4	150.5	215.6	276.7	187.2	170.9	101.7	101.7
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)