

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: P476621

Luminaire Tested: **IFLD-L-SA7A-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476621  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

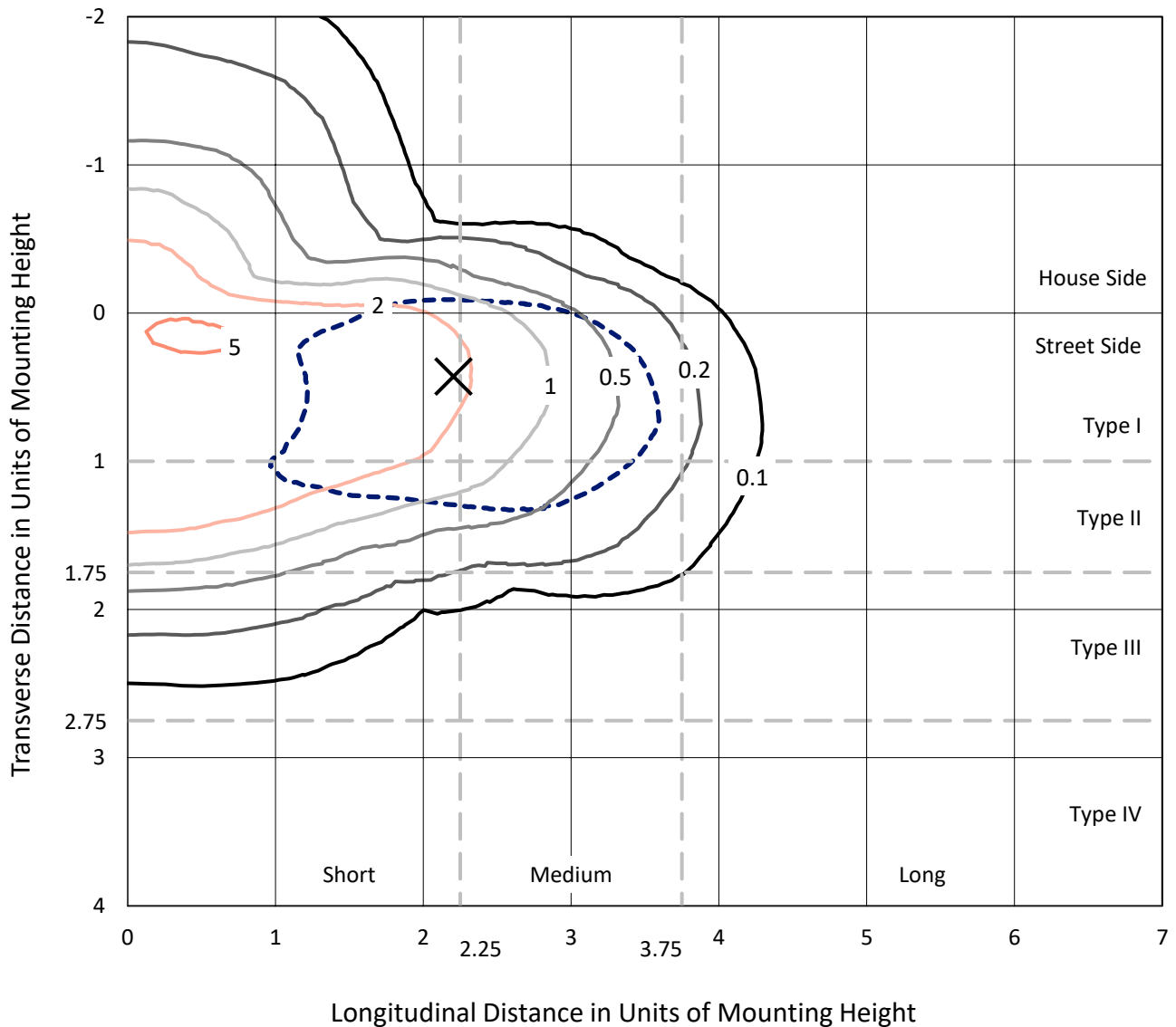
Lumens per Lamp: N/A  
Luminaire Lumens: 31262.8 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

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### Iso-Footcandle Lines of Horizontal Illumination

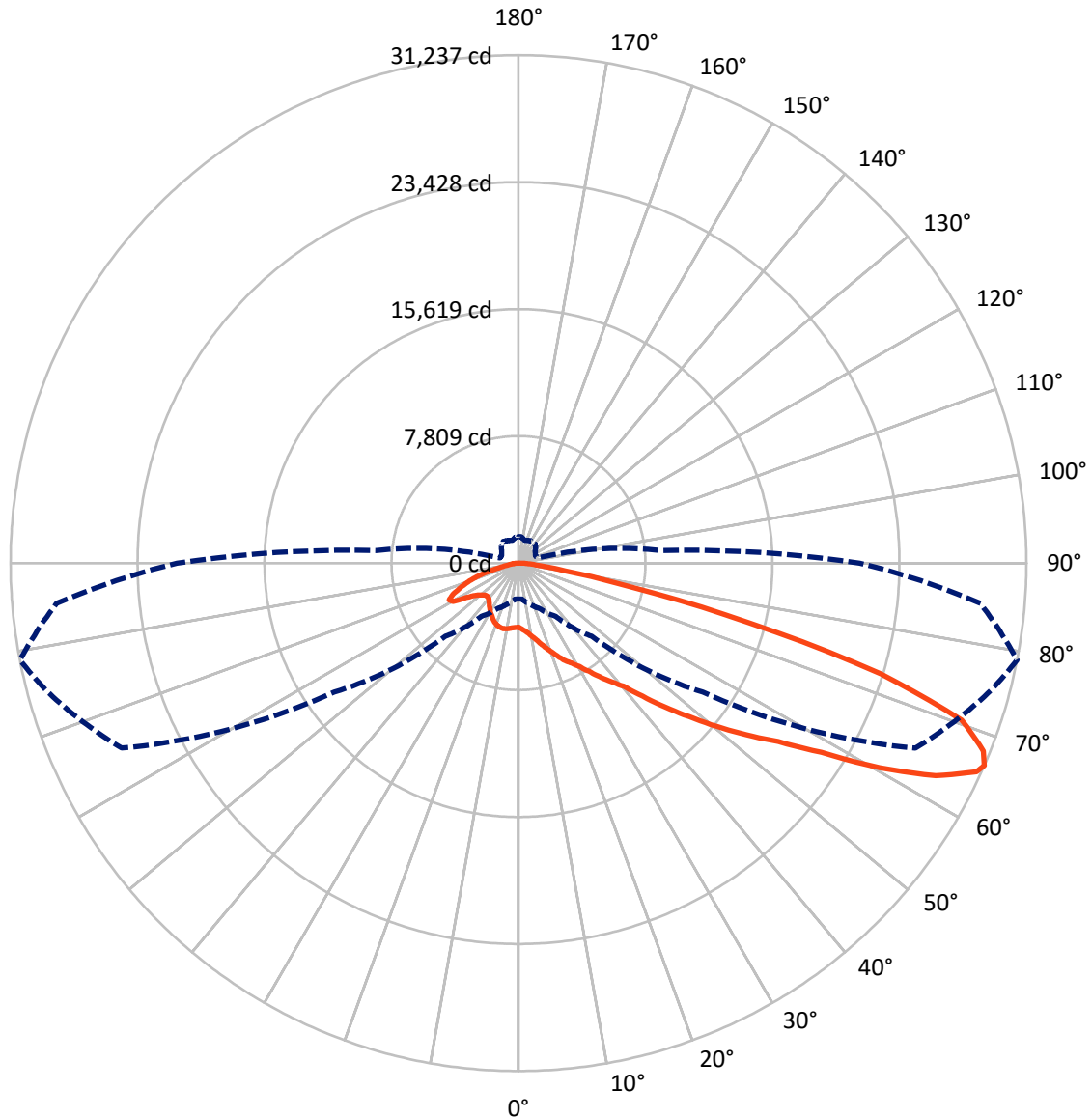
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	6313.1	0.0	6313.1
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	24949.7	0.0	24949.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	31262.8	0.0	31262.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.2	1.2
10°-20°	1198.6	3.8
20°-30°	2057.5	6.6
30°-40°	3178.4	10.2
40°-50°	5091.1	16.3
50°-60°	7601.3	24.3
60°-70°	7810.3	25.0
70°-80°	3462.2	11.1
80°-90°	475.0	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°	31262.8	100.0
0°-180°	31262.8	100.0

**Coefficient of Utilization**



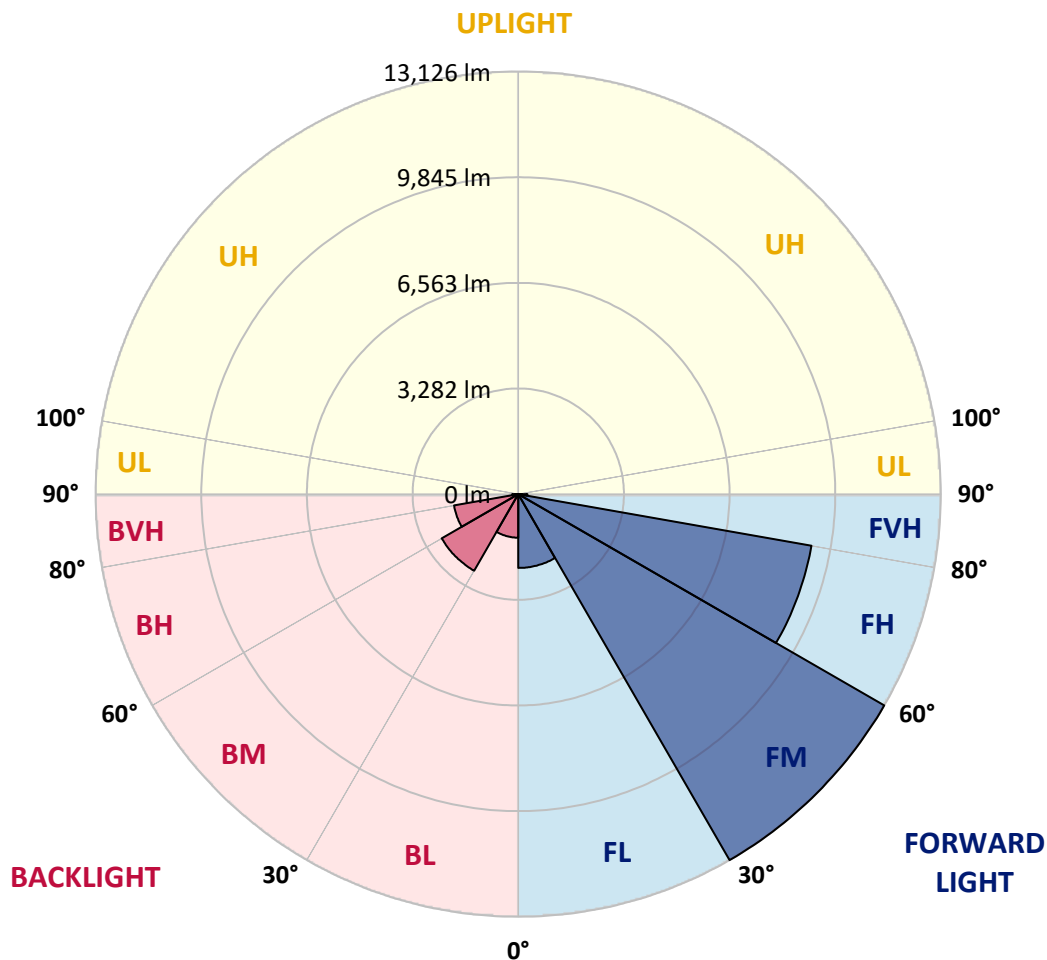
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.8	7.3			
FM (30°-60°)	13126.2	42.0			
FH (60°-80°)	9246.8	29.6			G4/12000
FVH (80°-90°)	284.9	0.9			G3/500
BL (0°-30°)	1352.6	4.3	B3/2500		
BM (30°-60°)	2744.6	8.8	B3/5000		
BH (60°-80°)	2025.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	190.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6
2.5°	4198.6	4202.1	4202.1	4188.3	4191.8	4202.1	4164.3	4081.7	4081.7	4068.0	4043.9
5°	4456.5	4439.4	4415.3	4418.7	4405.0	4405.0	4363.7	4284.6	4215.8	4188.3	4116.1
7.5°	4490.9	4508.1	4504.7	4546.0	4566.6	4566.6	4587.2	4521.9	4418.7	4353.4	4281.2
10°	4559.7	4515.0	4511.6	4607.8	4638.8	4711.0	4793.5	4759.1	4673.2	4580.3	4484.1
12.5°	4601.0	4628.5	4628.5	4676.6	4748.8	4855.4	4999.9	5065.2	4931.1	4834.8	4686.9
15°	4662.9	4625.0	4735.1	4776.3	4913.9	4989.5	5195.9	5364.4	5275.0	5158.0	4924.2
17.5°	4690.4	4666.3	4728.2	4803.9	5037.7	5151.2	5402.2	5636.0	5560.4	5484.7	5244.0
20°	4831.4	4827.9	4855.4	4917.3	5085.8	5309.3	5622.3	5945.5	5973.0	5835.5	5508.8
22.5°	5175.2	5130.5	5130.5	5106.5	5178.7	5409.1	5832.0	6279.1	6402.8	6241.2	5807.9
25°	5491.6	5553.5	5515.7	5405.6	5378.1	5498.5	5983.3	6633.2	6798.3	6647.0	6213.7
27.5°	5897.4	5918.0	5983.3	5835.5	5646.3	5684.2	6148.4	6832.7	7173.1	6970.2	6444.1
30°	6481.9	6444.1	6430.4	6265.3	6017.7	5966.1	6337.5	7125.0	7664.8	7379.4	6715.8
32.5°	6877.4	6970.2	6966.8	6739.8	6440.7	6327.2	6571.3	7400.1	8191.0	7926.2	7217.8
35°	7661.4	7757.7	7682.0	7348.5	6997.7	6770.8	6908.3	7757.7	8792.7	8586.4	7644.2
37.5°	8662.1	8889.0	8727.4	8111.9	7616.7	7369.1	7376.0	8146.3	9408.3	9239.8	8101.6
40°	9353.2	9659.3	9435.8	8858.1	8331.9	8098.1	8005.3	8607.0	10144.1	9965.3	8816.8
42.5°	10209.5	10463.9	10347.0	9776.2	9160.7	8961.2	8775.5	9377.3	11268.6	11186.1	9734.9
45°	11144.8	11265.2	11227.3	10866.3	10182.0	10113.2	9704.0	10391.7	12592.5	12626.9	10883.5
47.5°	12014.8	12080.1	12152.3	11891.0	11464.6	11523.1	10773.4	11478.4	13878.6	14105.5	12162.7
50°	12238.3	12461.8	12630.3	12805.7	12898.5	13294.0	11952.9	12812.6	15357.2	15797.3	13586.3
52.5°	12011.3	11994.2	12506.5	13056.7	13985.2	14813.9	13558.8	14470.0	16663.9	17533.9	14889.5
55°	10979.7	10945.4	11770.6	12499.6	14311.8	15659.8	15852.4	16677.7	18242.3	19373.6	16653.6
57.5°	9174.4	8961.2	9862.2	11058.8	13603.5	15752.6	18156.3	19954.7	20670.0	21959.5	19346.1
60°	6165.6	6076.2	6939.3	8366.3	11045.1	14435.6	19535.2	24057.1	24091.5	25542.6	23524.1
62.5°	3796.3	3813.5	4367.1	5436.6	7733.6	11444.0	18940.3	27334.2	27341.0	28795.6	26962.8
65°	2482.7	2493.1	2940.1	3531.5	4831.4	7761.1	15663.2	27592.1	29600.3	30951.7	28537.7
66°	2211.1	2214.5	2599.7	3081.1	4002.6	6351.3	13833.9	26921.5	30109.2	31237.1	28517.1
67.5°	1863.8	1908.5	2218.0	2589.3	3122.3	4563.1	10976.3	24982.1	29847.8	30838.2	27870.6
70°	1458.0	1482.1	1726.2	2104.5	2341.7	2640.9	6523.2	20363.9	27320.4	28926.3	25518.5
72.5°	1169.2	1189.8	1375.5	1709.0	1901.6	1740.0	3552.2	14776.1	21581.2	23293.7	20071.6
75°	986.9	990.3	1079.7	1344.5	1564.6	1306.7	1891.3	9483.9	13847.6	14645.4	12296.8
77.5°	797.8	811.5	873.4	1024.7	1258.6	1028.2	1127.9	5312.8	6953.0	7011.5	5684.2
80°	649.9	656.8	694.6	746.2	959.4	760.0	763.4	2592.8	2981.3	2912.6	2310.8
82.5°	512.4	519.2	563.9	553.6	704.9	543.3	474.5	1248.2	1372.0	1344.5	1062.6
85°	288.9	288.9	443.6	443.6	447.0	343.9	288.9	588.0	725.6	677.4	498.6
87.5°	92.8	96.3	134.1	141.0	223.5	154.7	141.0	220.1	343.9	302.6	178.8
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°	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6	3947.6
2.5°	4030.1	3975.1	3951.1	3872.0	3851.3	3799.8	3775.7	3744.7	3734.4	3689.7	3731.0
5°	4061.1	4043.9	3947.6	3847.9	3772.2	3737.9	3686.3	3617.5	3610.6	3548.7	3541.9
7.5°	4191.8	4133.3	3964.8	3858.2	3706.9	3620.9	3507.5	3473.1	3428.4	3407.7	3452.4
10°	4394.6	4246.8	3995.8	3727.5	3541.9	3438.7	3356.2	3332.1	3335.5	3321.8	3301.1
12.5°	4539.1	4398.1	3944.2	3617.5	3376.8	3277.1	3270.2	3294.3	3332.1	3314.9	3339.0
15°	4745.4	4480.6	3906.4	3435.3	3242.7	3215.2	3211.7	3284.0	3280.5	3280.5	3277.1
17.5°	4938.0	4563.1	3768.8	3277.1	3101.7	3122.3	3146.4	3143.0	3177.4	3191.1	3215.2
20°	5182.1	4659.4	3576.2	3118.9	2995.1	2988.2	2984.8	2988.2	3022.6	3043.2	3026.0
22.5°	5395.3	4680.1	3414.6	2967.6	2867.9	2840.4	2795.7	2840.4	2823.2	2830.0	2850.7
25°	5581.0	4683.5	3184.2	2854.1	2740.6	2678.7	2644.4	2640.9	2610.0	2606.5	2606.5
27.5°	5735.7	4566.6	2981.3	2695.9	2589.3	2530.9	2527.4	2489.6	2410.5	2358.9	2365.8
30°	5856.1	4477.2	2840.4	2558.4	2455.2	2444.9	2414.0	2328.0	2224.8	2159.5	2159.5
32.5°	6069.3	4298.4	2647.8	2417.4	2365.8	2352.1	2279.9	2204.2	2107.9	2046.0	2035.7
35°	6227.5	4133.3	2520.6	2297.0	2273.0	2245.5	2183.6	2101.0	2073.5	2059.8	2070.1
37.5°	6406.3	3947.6	2365.8	2193.9	2218.0	2166.4	2094.2	2056.3	2152.6	2128.5	2138.9
40°	6691.7	3816.9	2214.5	2132.0	2156.1	2097.6	2004.8	1991.0	2111.4	2025.4	2004.8
42.5°	7214.4	3813.5	2121.7	2039.1	2056.3	2011.6	1929.1	1922.2	1970.4	1867.2	1836.3
45°	7864.3	3933.9	2052.9	1970.4	1956.6	1949.7	1922.2	1891.3	1850.0	1715.9	1681.5
47.5°	8641.4	4129.9	2039.1	1867.2	1884.4	1942.9	1908.5	1829.4	1722.8	1636.8	1619.6
50°	9583.6	4535.6	2004.8	1791.6	1822.5	1915.4	1887.8	1777.8	1681.5	1626.5	1616.2
52.5°	10625.6	5048.0	1960.1	1674.6	1743.4	1891.3	1905.0	1801.9	1660.9	1612.7	1605.9
55°	11853.2	5804.5	1908.5	1547.4	1650.6	1867.2	1905.0	1733.1	1633.4	1633.4	1626.5
57.5°	14277.4	7166.2	1801.9	1430.5	1568.0	1822.5	1850.0	1736.5	1636.8	1636.8	1623.1
60°	17833.1	9291.3	1599.0	1341.1	1489.0	1760.6	1808.8	1685.0	1599.0	1619.6	1616.2
62.5°	20615.0	9937.8	1427.1	1255.1	1409.9	1647.1	1753.7	1629.9	1554.3	1629.9	1636.8
65°	21209.8	9284.5	1251.7	1162.3	1299.8	1537.1	1674.6	1550.8	1489.0	1636.8	1643.7
66°	20996.6	8775.5	1189.8	1134.8	1251.7	1482.1	1626.5	1523.3	1454.6	1629.9	1633.4
67.5°	20047.6	8012.2	1121.0	1076.3	1186.3	1403.0	1571.5	1485.5	1399.5	1609.3	1578.4
70°	17984.4	6794.9	1004.1	973.1	1093.5	1272.3	1444.3	1389.2	1313.6	1482.1	1427.1
72.5°	13851.0	5429.7	880.3	883.7	986.9	1138.2	1317.0	1279.2	1213.9	1299.8	1265.4
75°	8435.1	3469.6	766.8	773.7	859.7	1011.0	1196.7	1169.2	1090.1	1138.2	1121.0
77.5°	3737.9	1719.3	646.5	660.2	729.0	890.6	1041.9	997.2	914.7	925.0	918.1
80°	1451.1	815.0	526.1	543.3	588.0	711.8	863.1	821.8	749.6	735.9	729.0
82.5°	698.1	453.9	405.8	412.6	429.8	567.4	742.8	691.2	594.9	533.0	533.0
85°	350.7	282.0	285.4	261.3	285.4	385.1	502.0	419.5	347.3	309.5	316.4
87.5°	141.0	141.0	141.0	120.4	127.2	182.3	233.8	158.2	144.4	86.0	86.0
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)