

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: P476579

Luminaire Tested: **IFLD-M-SA4C-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476579  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

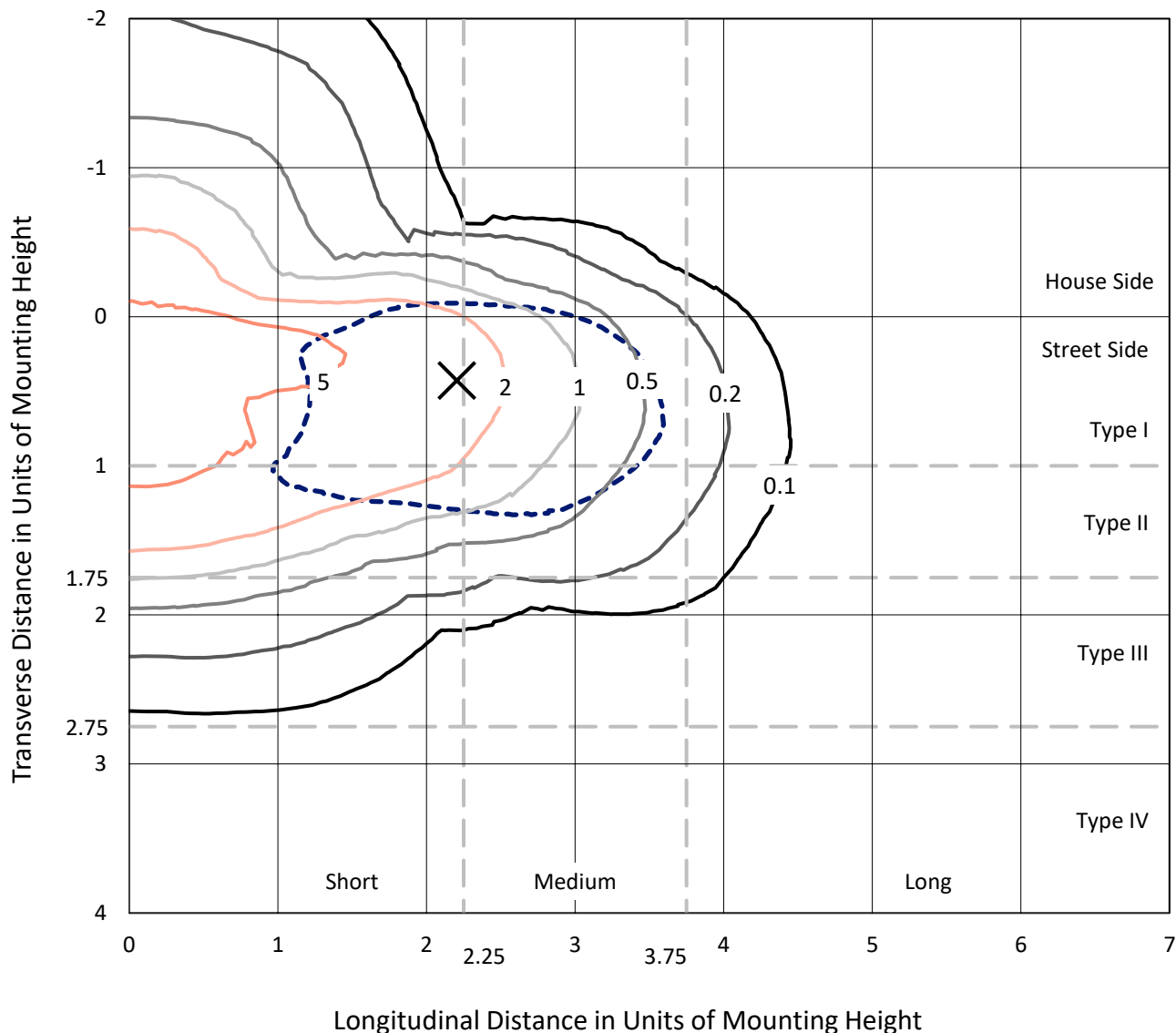
Lumens per Lamp: N/A  
Luminaire Lumens: 28008.3 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
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

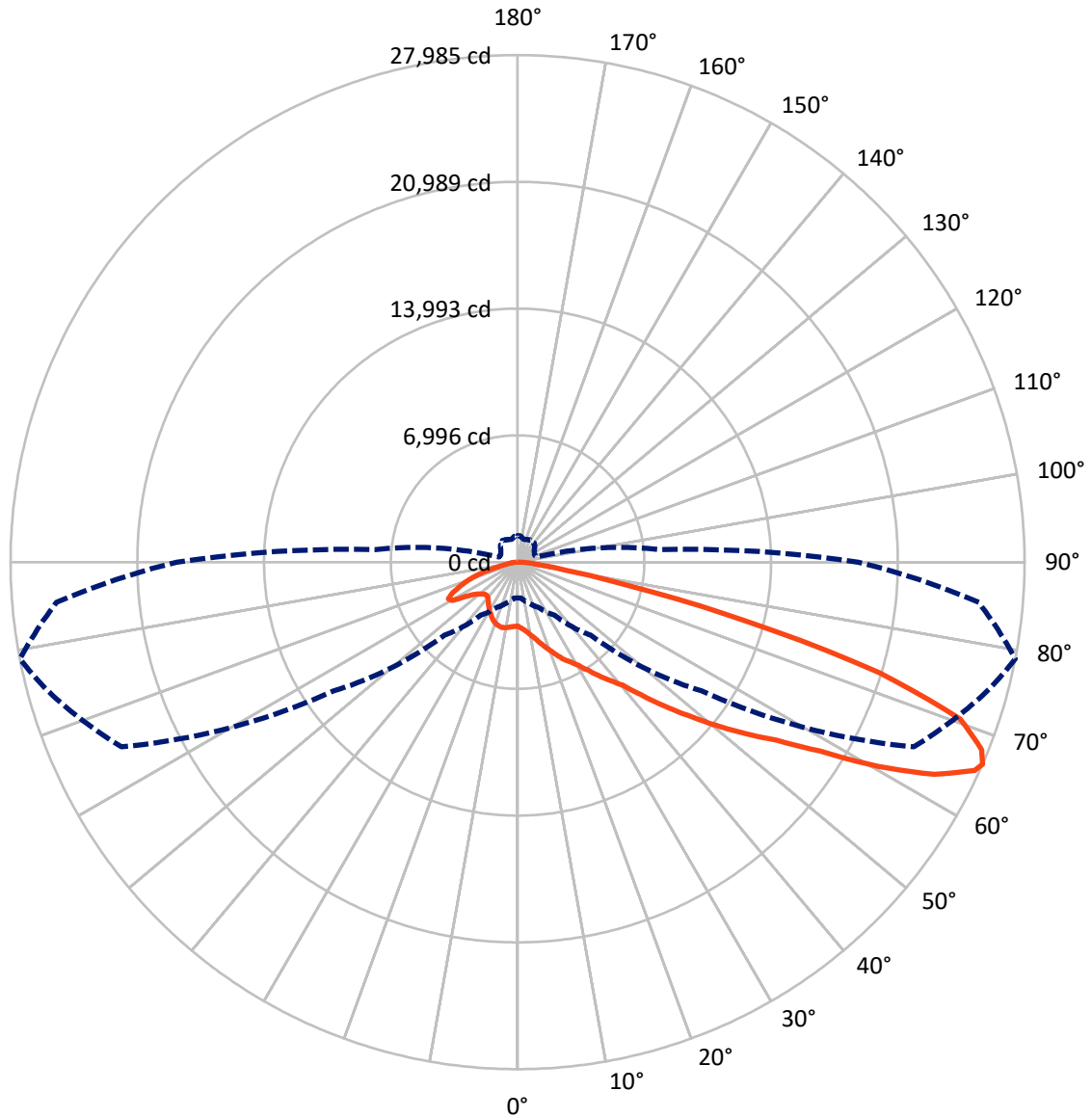
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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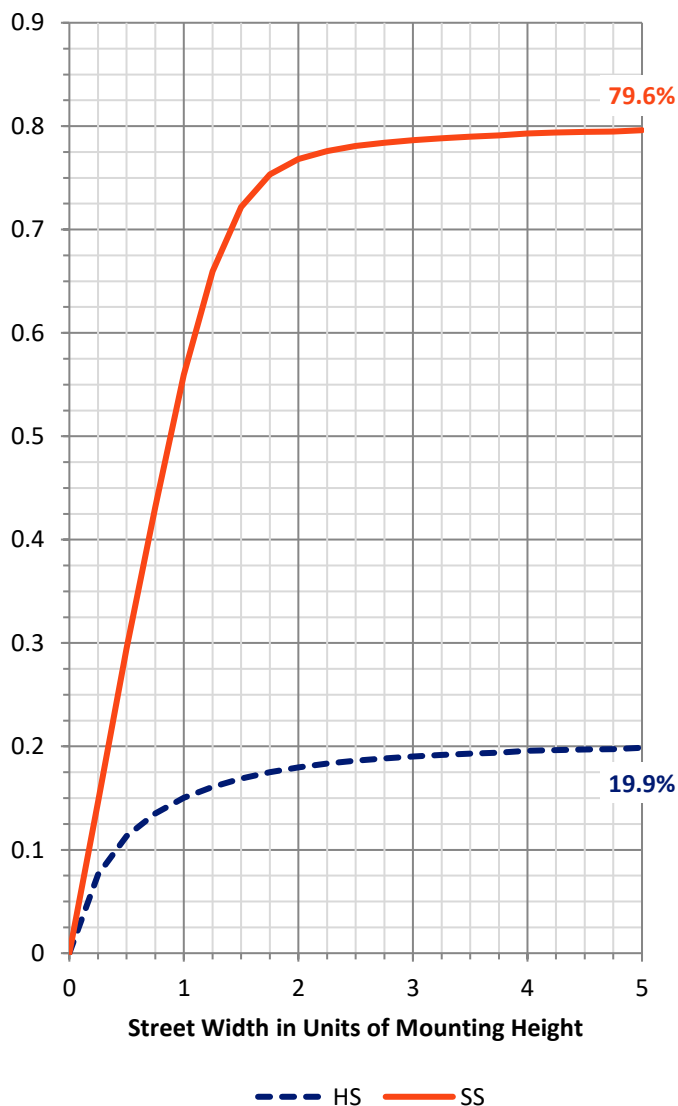
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5655.9	0.0	5655.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	22352.4	0.0	22352.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	28008.3	0.0	28008.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	1.2
10°-20°	1073.9	3.8
20°-30°	1843.3	6.6
30°-40°	2847.6	10.2
40°-50°	4561.1	16.3
50°-60°	6810.0	24.3
60°-70°	6997.3	25.0
70°-80°	3101.8	11.1
80°-90°	425.6	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°	28008.3	100.0
0°-180°	28008.3	100.0

**Coefficient of Utilization**

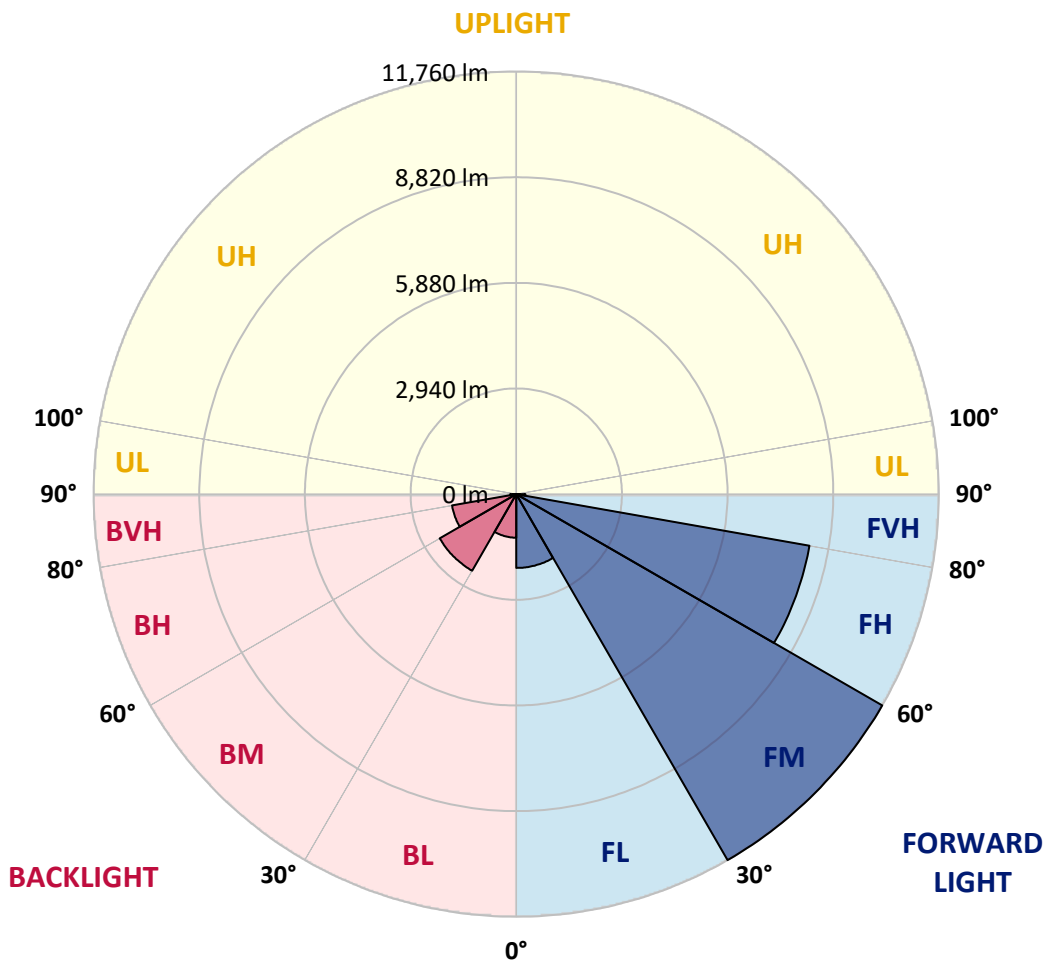


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.2	7.3			
FM (30°-60°)	11759.8	42.0			
FH (60°-80°)	8284.2	29.6			G4/12000
FVH (80°-90°)	255.3	0.9			G3/500
BL (0°-30°)	1211.8	4.3	B3/2500		
BM (30°-60°)	2458.9	8.8	B2/2500		
BH (60°-80°)	1814.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	170.3	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°	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7
2.5°	3761.6	3764.6	3764.6	3752.3	3755.4	3764.6	3730.8	3656.8	3656.8	3644.5	3622.9
5°	3992.6	3977.2	3955.7	3958.7	3946.4	3946.4	3909.4	3838.6	3777.0	3752.3	3687.6
7.5°	4023.4	4038.8	4035.8	4072.7	4091.2	4091.2	4109.7	4051.2	3958.7	3900.2	3835.5
10°	4085.0	4045.0	4041.9	4128.2	4155.9	4220.6	4294.5	4263.7	4186.7	4103.5	4017.3
12.5°	4122.0	4146.7	4146.7	4189.8	4254.5	4350.0	4479.4	4537.9	4417.8	4331.5	4199.0
15°	4177.5	4143.6	4242.2	4279.1	4402.4	4470.1	4655.0	4805.9	4725.8	4621.1	4411.6
17.5°	4202.1	4180.5	4236.0	4303.8	4513.3	4614.9	4839.8	5049.3	4981.5	4913.8	4698.1
20°	4328.4	4325.3	4350.0	4405.4	4556.4	4756.6	5037.0	5326.6	5351.2	5228.0	4935.3
22.5°	4636.5	4596.4	4596.4	4574.9	4639.6	4846.0	5224.9	5625.4	5736.3	5591.5	5203.3
25°	4919.9	4975.4	4941.5	4842.9	4818.3	4926.1	5360.5	5942.7	6090.6	5955.0	5566.9
27.5°	5283.4	5301.9	5360.5	5228.0	5058.6	5092.4	5508.3	6121.4	6426.4	6244.6	5773.3
30°	5807.2	5773.3	5761.0	5613.1	5391.3	5345.1	5677.8	6383.3	6866.9	6611.2	6016.7
32.5°	6161.5	6244.6	6241.6	6038.2	5770.2	5668.5	5887.3	6629.7	7338.3	7101.1	6466.4
35°	6863.9	6950.1	6882.3	6583.5	6269.3	6066.0	6189.2	6950.1	7877.4	7692.6	6848.5
37.5°	7760.4	7963.7	7818.9	7267.4	6823.8	6602.0	6608.2	7298.2	8428.9	8277.9	7258.2
40°	8379.6	8653.8	8453.5	7936.0	7464.6	7255.1	7171.9	7711.1	9088.1	8927.9	7899.0
42.5°	9146.7	9374.7	9269.9	8758.5	8207.1	8028.4	7862.0	8401.1	10095.5	10021.6	8721.5
45°	9984.6	10092.5	10058.6	9735.1	9122.0	9060.4	8693.8	9310.0	11281.6	11312.4	9750.5
47.5°	10764.1	10822.6	10887.3	10653.2	10271.1	10323.5	9651.9	10283.5	12433.8	12637.1	10896.5
50°	10964.3	11164.6	11315.5	11472.6	11555.8	11910.1	10708.6	11478.8	13758.5	14152.9	12172.0
52.5°	10761.0	10745.6	11204.6	11697.5	12529.3	13271.8	12147.3	12963.7	14929.2	15708.6	13339.5
55°	9836.8	9806.0	10545.3	11198.4	12822.0	14029.6	14202.2	14941.5	16343.3	17356.8	14920.0
57.5°	8219.4	8028.4	8835.5	9907.6	12187.4	14112.8	16266.2	17877.5	18518.2	19673.5	17332.2
60°	5523.7	5443.6	6216.9	7495.4	9895.3	12932.9	17501.6	21552.8	21583.6	22883.6	21075.3
62.5°	3401.1	3416.5	3912.5	4870.6	6928.6	10252.7	16968.6	24488.7	24494.9	25798.0	24156.0
65°	2224.3	2233.5	2634.0	3163.9	4328.4	6953.2	14032.7	24719.8	26518.9	27729.6	25567.0
66°	1980.9	1984.0	2329.0	2760.3	3586.0	5690.1	12393.8	24119.0	26974.8	27985.3	25548.5
67.5°	1669.8	1709.8	1987.1	2319.8	2797.3	4088.1	9833.7	22381.5	26740.7	27628.0	24969.3
70°	1306.2	1327.8	1546.5	1885.4	2098.0	2366.0	5844.1	18244.1	24476.4	25915.1	22862.1
72.5°	1047.4	1065.9	1232.3	1531.1	1703.6	1558.8	3182.4	13237.9	19334.6	20868.8	17982.2
75°	884.2	887.2	967.3	1204.6	1401.7	1170.7	1694.4	8496.6	12406.1	13120.8	11016.7
77.5°	714.7	727.1	782.5	918.1	1127.5	921.1	1010.5	4759.7	6229.2	6281.6	5092.4
80°	582.3	588.4	622.3	668.5	859.5	680.8	683.9	2322.9	2671.0	2609.4	2070.2
82.5°	459.0	465.2	505.2	496.0	631.5	486.8	425.1	1118.3	1229.2	1204.6	951.9
85°	258.8	258.8	397.4	397.4	400.5	308.1	258.8	526.8	650.0	606.9	446.7
87.5°	83.2	86.3	120.1	126.3	200.2	138.6	126.3	197.2	308.1	271.1	160.2
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°	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7	3536.7
2.5°	3610.6	3561.3	3539.8	3468.9	3450.4	3404.2	3382.6	3354.9	3345.7	3305.6	3342.6
5°	3638.3	3622.9	3536.7	3447.3	3379.6	3348.8	3302.5	3240.9	3234.8	3179.3	3173.1
7.5°	3755.4	3703.0	3552.1	3456.6	3321.0	3244.0	3142.3	3111.5	3071.5	3053.0	3093.0
10°	3937.2	3804.7	3579.8	3339.5	3173.1	3080.7	3006.8	2985.2	2988.3	2976.0	2957.5
12.5°	4066.6	3940.2	3533.6	3240.9	3025.3	2935.9	2929.8	2951.3	2985.2	2969.8	2991.4
15°	4251.4	4014.2	3499.7	3077.6	2905.1	2880.5	2877.4	2942.1	2939.0	2939.0	2935.9
17.5°	4423.9	4088.1	3376.5	2935.9	2778.8	2797.3	2818.9	2815.8	2846.6	2858.9	2880.5
20°	4642.7	4174.4	3204.0	2794.2	2683.3	2677.2	2674.1	2677.2	2708.0	2726.4	2711.0
22.5°	4833.7	4192.9	3059.2	2658.7	2569.3	2544.7	2504.6	2544.7	2529.3	2535.4	2553.9
25°	5000.0	4196.0	2852.8	2557.0	2455.3	2399.9	2369.1	2366.0	2338.3	2335.2	2335.2
27.5°	5138.7	4091.2	2671.0	2415.3	2319.8	2267.4	2264.3	2230.4	2159.6	2113.4	2119.5
30°	5246.5	4011.1	2544.7	2292.1	2199.6	2190.4	2162.7	2085.7	1993.2	1934.7	1934.7
32.5°	5437.5	3850.9	2372.2	2165.8	2119.5	2107.2	2042.5	1974.7	1888.5	1833.0	1823.8
35°	5579.2	3703.0	2258.2	2057.9	2036.4	2011.7	1956.3	1882.3	1857.7	1845.4	1854.6
37.5°	5739.4	3536.7	2119.5	1965.5	1987.1	1940.9	1876.2	1842.3	1928.5	1907.0	1916.2
40°	5995.1	3419.6	1984.0	1910.1	1931.6	1879.2	1796.1	1783.7	1891.6	1814.5	1796.1
42.5°	6463.4	3416.5	1900.8	1826.9	1842.3	1802.2	1728.3	1722.1	1765.3	1672.8	1645.1
45°	7045.6	3524.4	1839.2	1765.3	1752.9	1746.8	1722.1	1694.4	1657.4	1537.3	1506.5
47.5°	7741.9	3700.0	1826.9	1672.8	1688.2	1740.6	1709.8	1638.9	1543.4	1466.4	1451.0
50°	8586.0	4063.5	1796.1	1605.1	1632.8	1716.0	1691.3	1592.7	1506.5	1457.2	1447.9
52.5°	9519.4	4522.5	1756.0	1500.3	1561.9	1694.4	1706.7	1614.3	1488.0	1444.9	1438.7
55°	10619.3	5200.3	1709.8	1386.3	1478.7	1672.8	1706.7	1552.7	1463.3	1463.3	1457.2
57.5°	12791.2	6420.2	1614.3	1281.6	1404.8	1632.8	1657.4	1555.8	1466.4	1466.4	1454.1
60°	15976.6	8324.1	1432.5	1201.5	1334.0	1577.3	1620.5	1509.6	1432.5	1451.0	1447.9
62.5°	18469.0	8903.3	1278.5	1124.5	1263.1	1475.7	1571.2	1460.3	1392.5	1460.3	1466.4
65°	19001.9	8318.0	1121.4	1041.3	1164.5	1377.1	1500.3	1389.4	1334.0	1466.4	1472.6
66°	18810.9	7862.0	1065.9	1016.6	1121.4	1327.8	1457.2	1364.8	1303.1	1460.3	1463.3
67.5°	17960.6	7178.1	1004.3	964.3	1062.9	1256.9	1407.9	1330.9	1253.9	1441.8	1414.1
70°	16112.2	6087.5	899.6	871.8	979.7	1139.9	1293.9	1244.6	1176.8	1327.8	1278.5
72.5°	12409.2	4864.5	788.7	791.7	884.2	1019.7	1179.9	1146.0	1087.5	1164.5	1133.7
75°	7557.0	3108.5	687.0	693.2	770.2	905.7	1072.1	1047.4	976.6	1019.7	1004.3
77.5°	3348.8	1540.4	579.2	591.5	653.1	797.9	933.5	893.4	819.5	828.7	822.6
80°	1300.1	730.1	471.4	486.8	526.8	637.7	773.3	736.3	671.6	659.3	653.1
82.5°	625.4	406.7	363.5	369.7	385.1	508.3	665.4	619.2	533.0	477.5	477.5
85°	314.2	252.6	255.7	234.1	255.7	345.0	449.8	375.8	311.2	277.3	283.4
87.5°	126.3	126.3	126.3	107.8	114.0	163.3	209.5	141.7	129.4	77.0	77.0
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)