

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: P478064

Luminaire Tested: **IFLD-L-SA7A-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478064
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

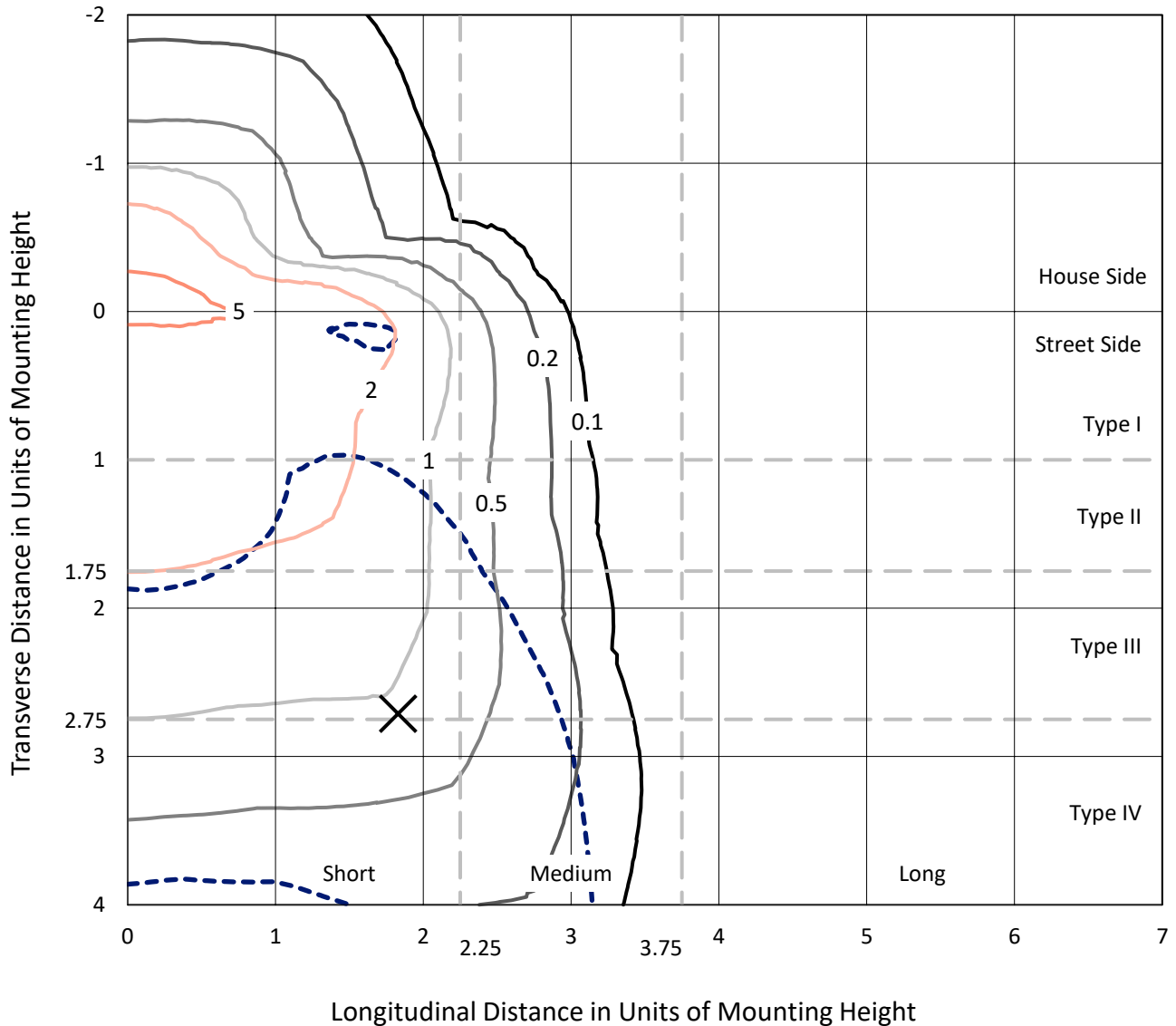
Lumens per Lamp: N/A
Luminaire Lumens: 26817.7 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

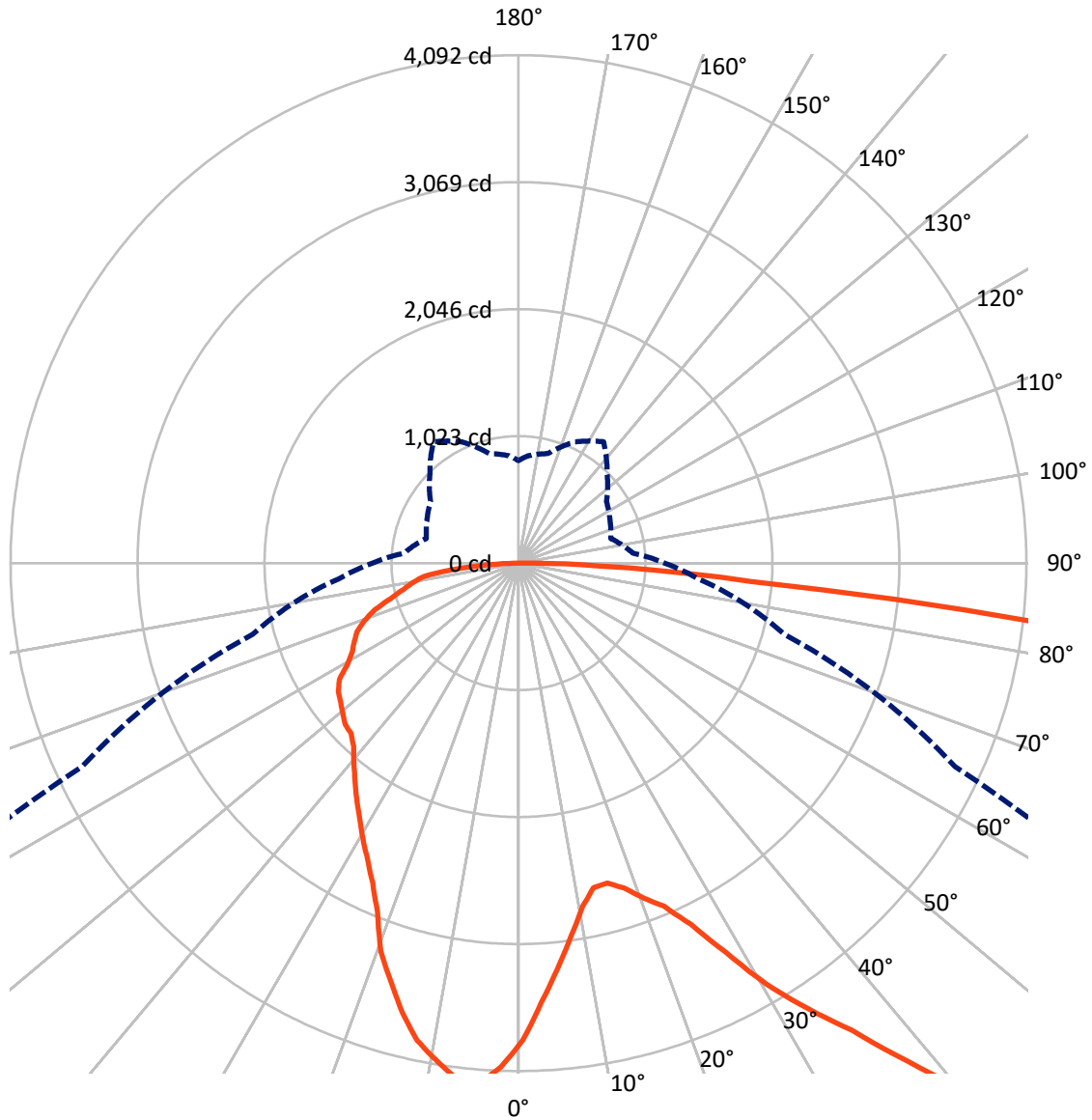
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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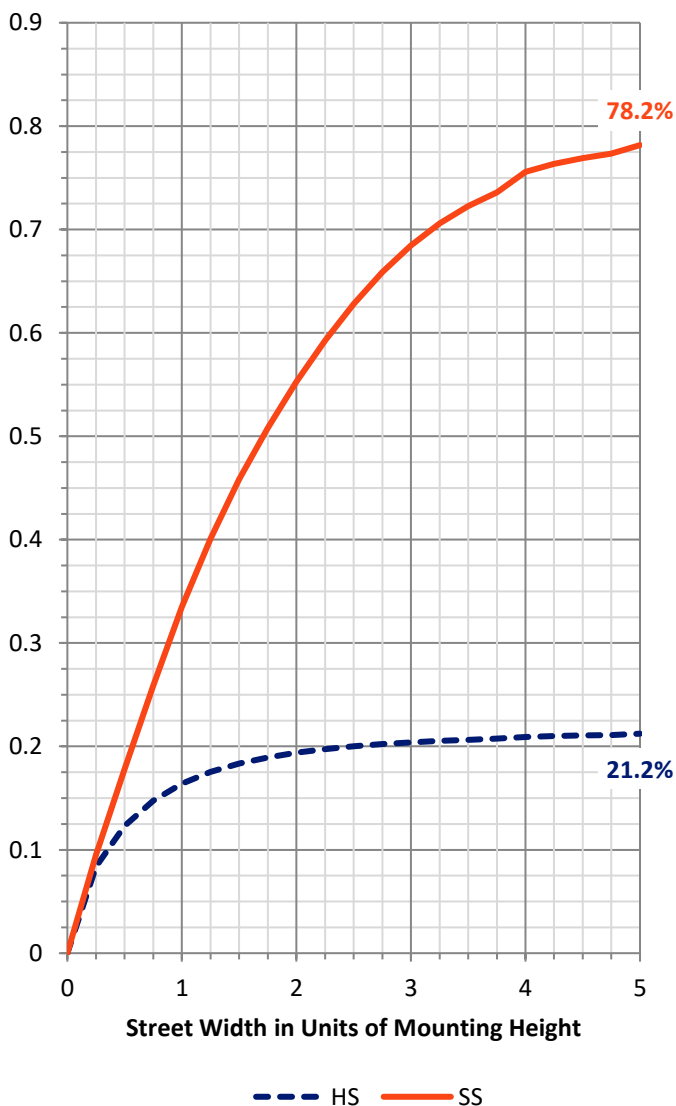
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5793.0	0.0	5793.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21024.8	0.0	21024.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	26817.7	0.0	26817.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	1.3
10°-20°	993.1	3.7
20°-30°	1634.5	6.1
30°-40°	2444.3	9.1
40°-50°	3623.6	13.5
50°-60°	5222.0	19.5
60°-70°	6664.0	24.8
70°-80°	5185.7	19.3
80°-90°	695.7	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°	26817.7	100.0
0°-180°	26817.7	100.0

Coefficient of Utilization



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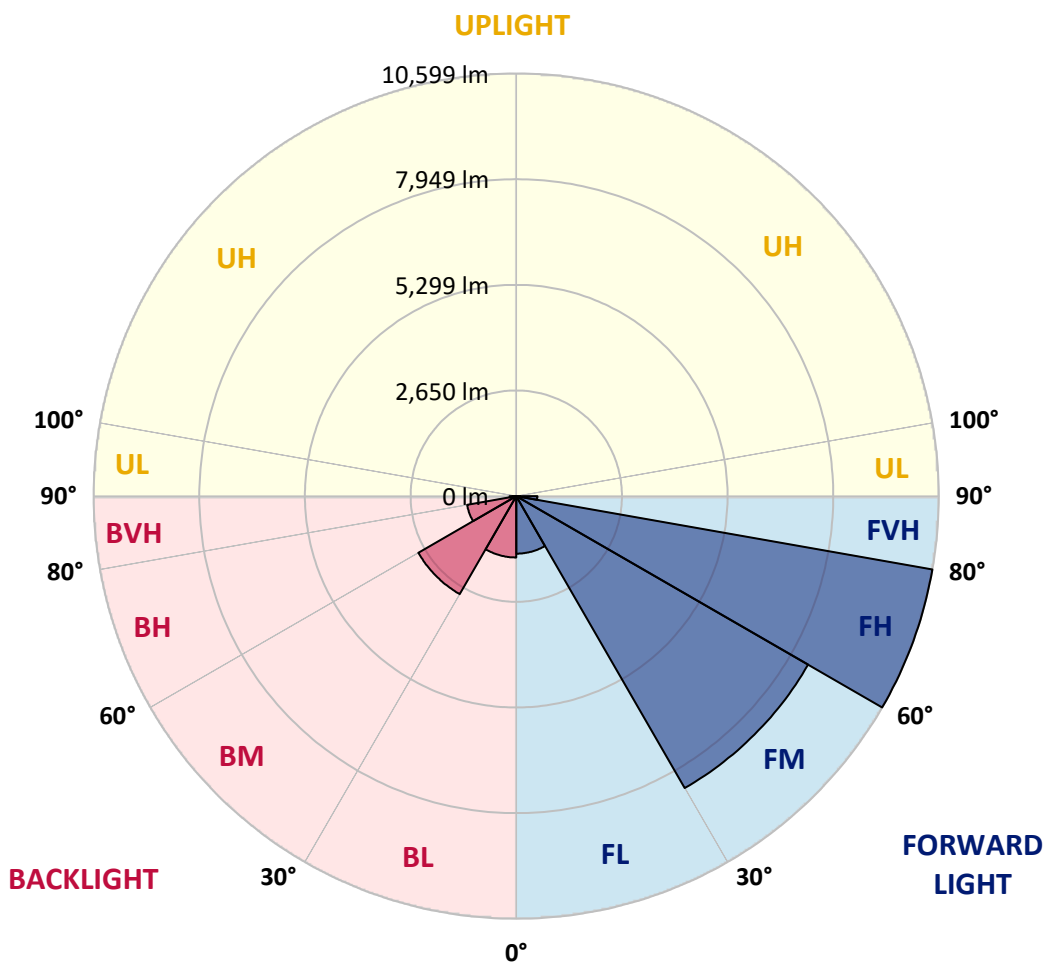
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.2	5.4			
FM (30°-60°)	8453.1	31.5			
FH (60°-80°)	10598.9	39.5			G4/12000
FVH (80°-90°)	529.5	2.0			G4/750
BL (0°-30°)	1539.2	5.7	B3/2500		
BM (30°-60°)	2836.8	10.6	B3/5000		
BH (60°-80°)	1250.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	166.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7
2.5°	3445.0	3456.3	3493.2	3501.7	3541.4	3518.7	3566.9	3651.9	3700.1	3771.0	3856.1
5°	3172.8	3124.6	3147.2	3235.1	3280.5	3291.8	3342.9	3487.5	3578.2	3683.1	3841.9
7.5°	2852.4	2843.9	2889.2	2945.9	3036.7	3045.2	3158.6	3286.2	3473.3	3705.8	3892.9
10°	2634.0	2670.9	2696.4	2756.0	2818.3	2818.3	2962.9	3184.1	3396.8	3620.7	3904.3
12.5°	2622.7	2600.0	2605.7	2636.9	2682.2	2739.0	2875.1	3073.5	3342.9	3603.7	3952.5
15°	2659.6	2668.1	2617.0	2656.7	2673.7	2693.6	2843.9	3067.9	3308.9	3663.3	4034.7
17.5°	2855.2	2807.0	2727.6	2690.8	2750.3	2750.3	2852.4	3028.2	3314.5	3694.5	4153.8
20°	3008.3	3008.3	2877.9	2838.2	2880.7	2872.2	2943.1	3073.5	3342.9	3756.8	4287.1
22.5°	3266.3	3303.2	3087.7	3005.5	3002.6	3025.3	3087.7	3198.3	3422.3	3844.7	4414.6
25°	3637.8	3646.3	3396.8	3311.7	3221.0	3257.8	3269.2	3379.7	3493.2	3946.8	4559.3
27.5°	4051.7	4046.1	3816.4	3603.7	3544.2	3552.7	3490.3	3564.0	3598.1	3978.0	4766.2
30°	4511.1	4460.0	4287.1	3986.5	3938.3	3884.4	3748.3	3745.5	3816.4	4153.8	5052.6
32.5°	4811.6	4746.4	4627.3	4411.8	4278.6	4284.2	4068.7	4065.9	4003.5	4346.6	5302.1
35°	5106.5	5007.2	4976.0	4754.9	4621.6	4635.8	4462.9	4440.2	4326.8	4638.6	5713.2
37.5°	5460.9	5373.0	5421.2	5253.9	5089.5	5021.4	4942.0	4913.7	4766.2	5049.8	6274.6
40°	5852.2	5823.8	5792.6	5710.4	5611.2	5616.8	5531.8	5503.4	5285.1	5546.0	6813.4
42.5°	6379.6	6271.8	6110.2	6164.1	6215.1	6269.0	6240.6	6166.9	5940.1	6050.6	7414.5
45°	6870.1	6728.3	6430.6	6447.6	6657.4	6699.9	7043.0	7034.5	6578.0	6691.4	8097.8
47.5°	7201.8	7136.6	6958.0	6938.1	7238.7	7235.8	7853.9	7853.9	7250.0	7329.4	8832.1
50°	7695.2	7525.0	7448.5	7547.7	7700.8	7805.7	8681.9	8735.7	7910.6	7995.7	9793.3
52.5°	8273.6	8060.9	7868.1	8123.3	8395.5	8463.5	9501.3	9478.6	8418.2	8769.8	10919.0
55°	8752.7	8645.0	8511.7	8659.2	9104.3	9189.4	10323.5	10113.7	8925.7	9410.5	11460.5
57.5°	9311.3	9376.5	9404.9	9368.0	9898.2	10031.5	11262.0	10660.9	9362.3	9841.5	11778.1
60°	10153.4	10193.1	10230.0	10317.9	10879.3	11066.4	12004.9	11347.1	9637.4	10091.0	11803.6
62.5°	11435.0	11281.9	11364.1	11667.5	12118.3	12331.0	13099.3	11829.1	9847.2	10241.3	10970.0
65°	12900.9	12693.9	12608.8	13000.1	14168.3	13998.2	14466.0	12189.2	9543.8	9679.9	9302.8
67.5°	14386.6	14409.3	14191.0	14976.3	16408.2	16408.2	15736.2	12362.2	8721.6	7845.4	6524.2
70°	15566.1	15637.0	15756.1	17278.7	19546.9	19890.0	17309.8	11653.3	7045.9	5222.7	3566.9
72.5°	15549.1	15336.4	15946.0	18750.2	22399.3	22112.9	17638.7	9214.9	4397.6	2557.5	1636.0
73°	15200.3	15021.7	15688.0	18736.0	22515.6	22246.2	17397.7	8494.7	3878.8	2217.2	1454.5
75°	12413.2	12090.0	13224.1	16969.6	20831.4	21038.3	14780.7	5540.3	2126.5	1366.6	1023.6
77.5°	5659.4	5801.1	7278.4	11384.0	16053.8	16297.6	9716.8	2395.9	1165.3	958.4	754.2
80°	1817.5	1908.2	2832.5	5659.4	10062.7	10502.2	4491.2	1088.8	830.8	734.4	564.2
82.5°	694.7	691.8	1188.0	2353.3	4769.1	5049.8	1641.7	663.5	618.1	541.6	399.8
85°	243.8	255.2	448.0	930.0	1877.0	1964.9	569.9	368.6	428.1	362.9	229.7
87.5°	85.1	87.9	158.8	337.4	646.5	683.3	158.8	147.4	212.7	209.8	116.2
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°	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7	3844.7
2.5°	3884.4	3910.0	3918.5	4020.5	4020.5	4020.5	4060.2	4060.2	4048.9	4020.5	4088.6
5°	3901.4	3946.8	4034.7	4122.6	4145.3	4165.1	4219.0	4173.6	4190.7	4162.3	4187.8
7.5°	3949.7	4012.0	4176.5	4230.4	4193.5	4236.0	4179.3	4148.1	4116.9	4128.3	4088.6
10°	4031.9	4111.3	4187.8	4287.1	4216.2	4173.6	4057.4	4029.0	3929.8	3895.8	3927.0
12.5°	4133.9	4230.4	4360.8	4323.9	4187.8	4065.9	3941.1	3822.1	3762.5	3677.5	3700.1
15°	4236.0	4346.6	4366.4	4304.1	4133.9	3980.8	3754.0	3586.7	3527.2	3450.6	3490.3
17.5°	4346.6	4451.5	4417.5	4255.9	4026.2	3793.7	3535.7	3371.2	3246.5	3198.3	3198.3
20°	4511.1	4562.1	4508.2	4176.5	3895.8	3589.6	3340.0	3152.9	3028.2	3008.3	2977.1
22.5°	4638.6	4720.9	4479.9	4060.2	3705.8	3323.0	3036.7	2965.8	2928.9	2897.7	2858.0
25°	4803.1	4800.3	4428.8	3952.5	3379.7	3005.5	2832.5	2826.8	2809.8	2798.5	2852.4
27.5°	4959.0	4893.8	4369.3	3686.0	3042.3	2764.5	2670.9	2733.3	2758.8	2741.8	2764.5
30°	5205.7	5098.0	4284.2	3402.4	2744.6	2520.6	2537.6	2622.7	2665.2	2690.8	2656.7
32.5°	5466.6	5302.1	4108.4	3107.6	2480.9	2367.5	2407.2	2495.1	2546.1	2574.5	2605.7
35°	5843.7	5460.9	3929.8	2721.9	2291.0	2274.0	2296.6	2344.8	2418.6	2438.4	2446.9
37.5°	6308.7	5701.9	3688.8	2412.9	2143.5	2163.4	2186.1	2203.1	2205.9	2242.8	2228.6
40°	6773.7	5906.0	3337.2	2118.0	1990.4	2098.2	2086.8	2055.6	2030.1	1996.1	1987.6
42.5°	7182.0	6084.7	2945.9	1868.5	1854.3	2030.1	1993.3	1913.9	1854.3	1828.8	1786.3
45°	7641.3	6337.0	2551.8	1712.6	1749.4	1947.9	1936.5	1814.6	1738.1	1647.3	1636.0
47.5°	8236.7	6600.7	2174.7	1550.9	1650.2	1916.7	1922.4	1766.4	1655.8	1533.9	1516.9
50°	8999.4	6980.6	1888.3	1482.9	1590.6	1871.3	1879.8	1701.2	1556.6	1431.9	1420.5
52.5°	9730.9	7369.1	1650.2	1378.0	1550.9	1817.5	1837.3	1641.7	1474.4	1318.4	1326.9
55°	10099.5	7227.3	1446.0	1301.4	1460.2	1729.6	1803.3	1599.1	1349.6	1241.9	1239.1
57.5°	10181.8	6878.6	1284.4	1222.0	1383.7	1636.0	1746.6	1471.5	1292.9	1202.2	1190.8
60°	9912.4	6269.0	1156.8	1137.0	1287.3	1539.6	1616.2	1403.5	1236.2	1162.5	1145.5
62.5°	9248.9	5636.7	1068.9	1097.3	1205.0	1434.7	1533.9	1355.3	1182.3	1131.3	1094.4
65°	7584.6	4635.8	998.0	1020.7	1120.0	1332.6	1482.9	1301.4	1134.1	1085.9	1083.1
67.5°	5253.9	3195.4	941.3	983.9	1051.9	1258.9	1431.9	1241.9	1071.8	1054.8	1032.1
70°	2690.8	1704.0	867.6	901.6	978.2	1165.3	1341.1	1179.5	1006.6	1003.7	975.4
72.5°	1363.8	998.0	782.6	833.6	887.5	1043.4	1227.7	1097.3	924.3	893.1	847.8
73°	1179.5	924.3	768.4	813.7	864.8	1009.4	1193.7	1077.4	913.0	867.6	825.1
75°	859.1	728.7	689.0	734.4	774.1	910.1	1080.3	986.7	839.3	791.1	751.4
77.5°	643.6	561.4	572.7	623.8	657.8	785.4	961.2	893.1	759.9	694.7	677.7
80°	473.5	428.1	473.5	521.7	547.2	691.8	876.1	774.1	640.8	567.1	552.9
82.5°	337.4	311.9	365.8	396.9	408.3	572.7	788.2	618.1	484.8	388.4	357.3
85°	192.8	190.0	246.7	243.8	252.3	334.6	518.9	411.1	311.9	238.2	232.5
87.5°	85.1	93.6	124.8	99.2	104.9	158.8	221.2	153.1	127.6	70.9	53.9
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)