

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: P481316

Luminaire Tested: **IFLD-S-SA3B-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481316  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

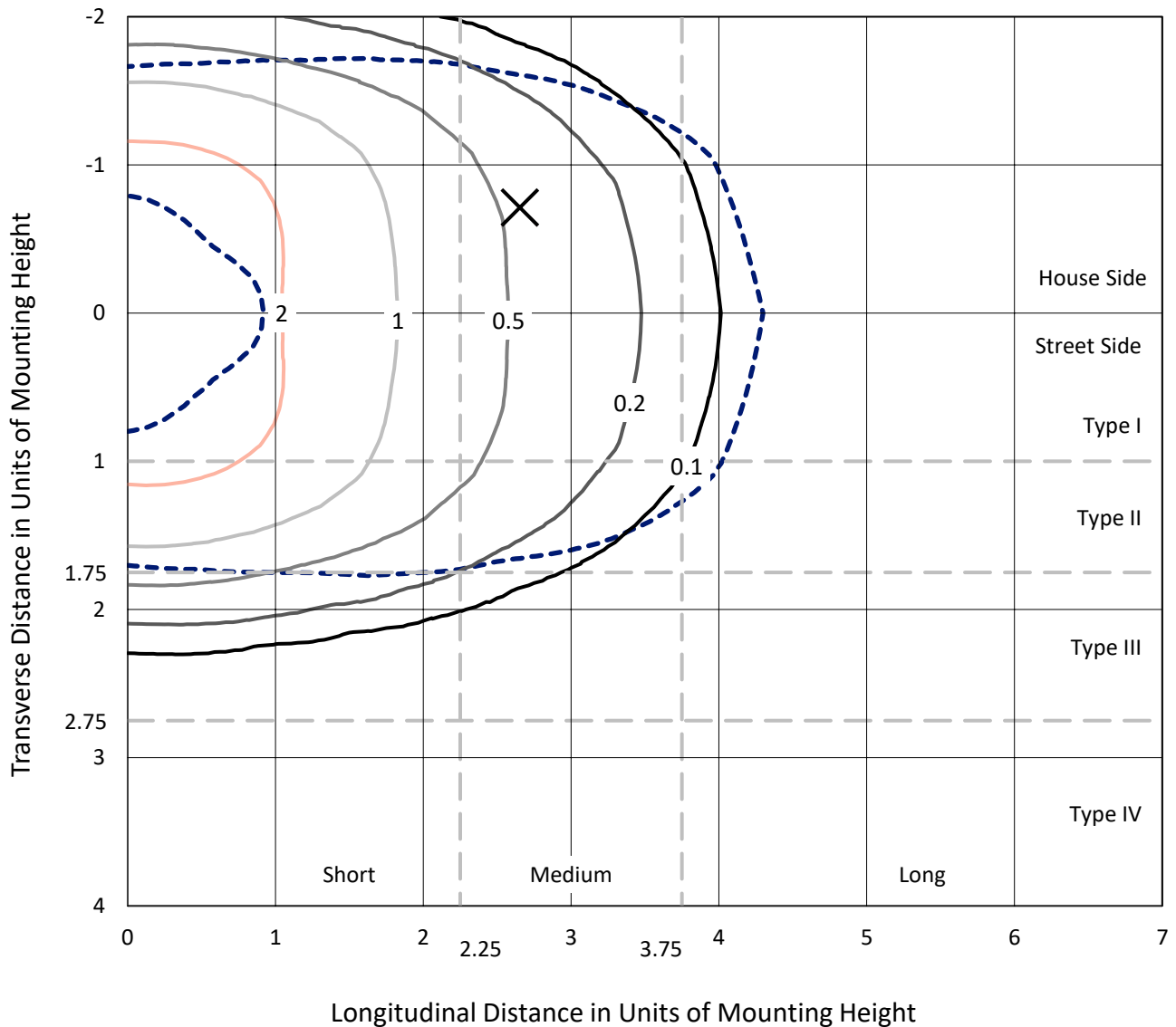
Lumens per Lamp: N/A  
Luminaire Lumens: 17928.2 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 122.4  
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

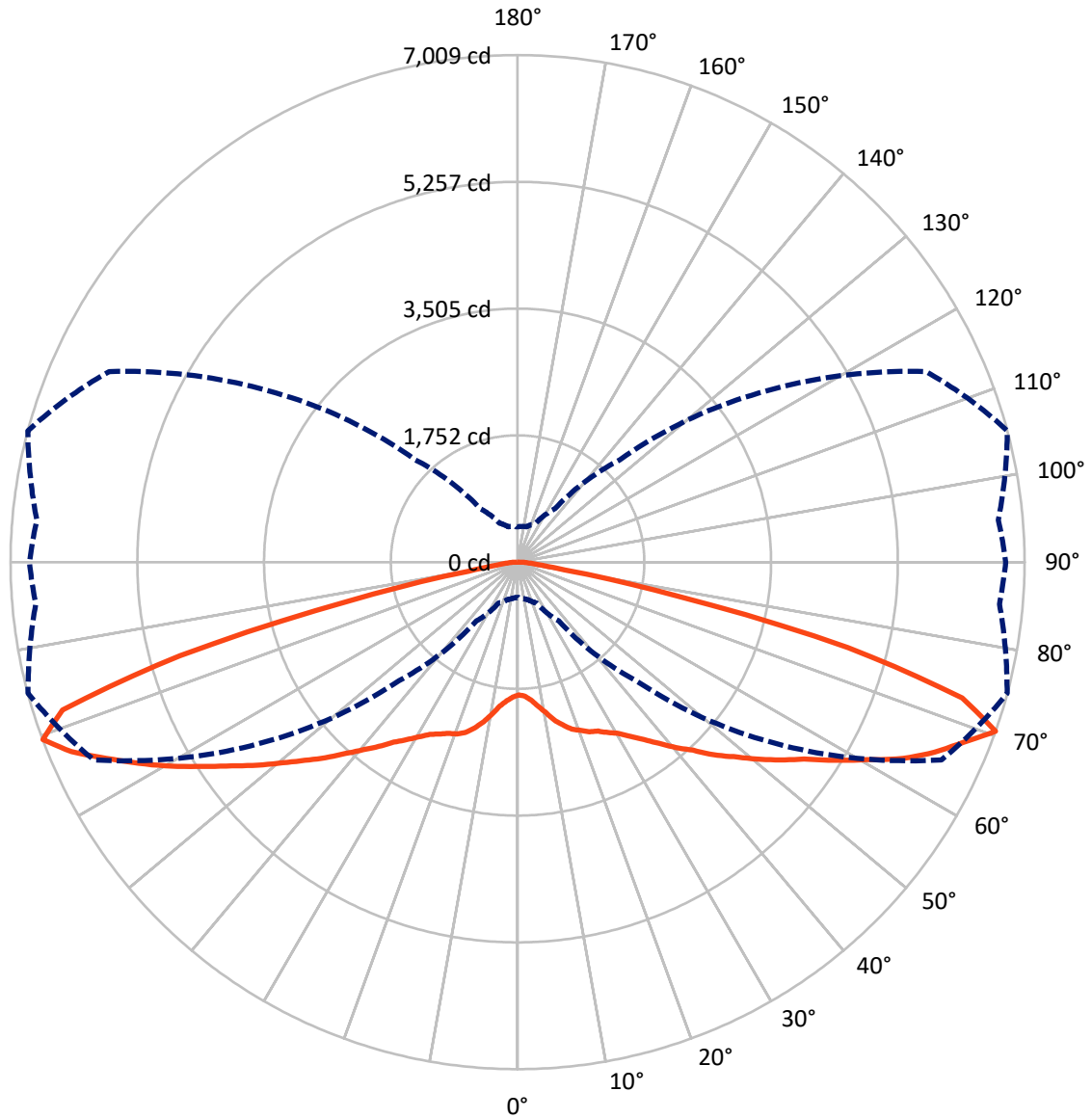
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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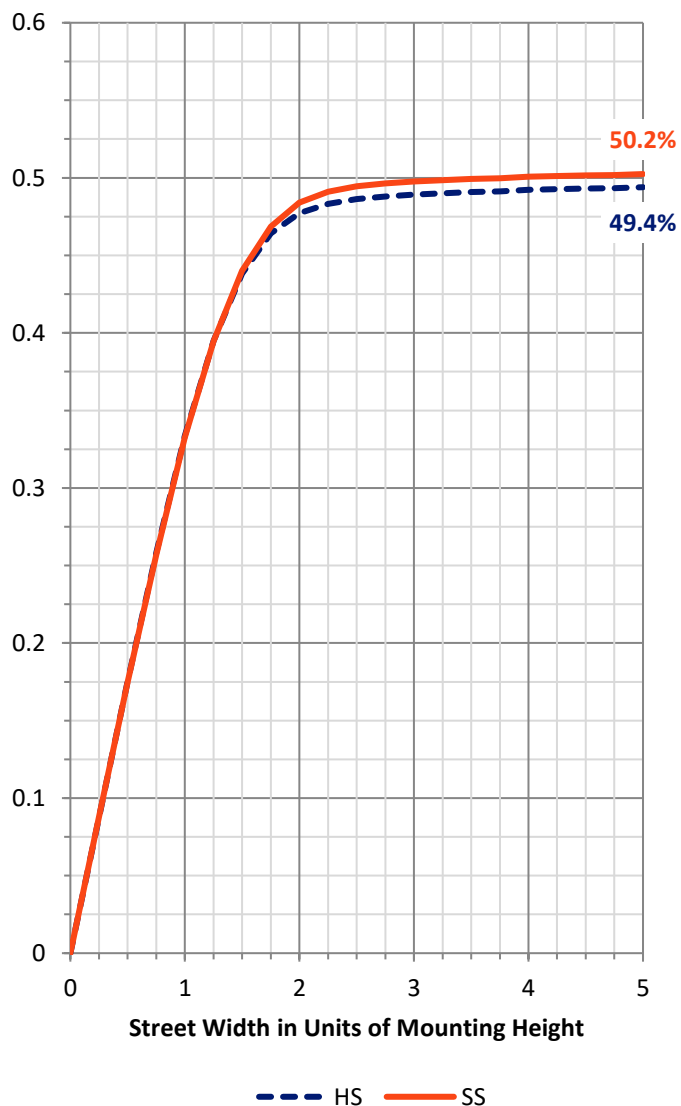
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8900.3	0.0	8900.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9027.9	0.0	9027.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	17928.2	0.0	17928.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.7	1.0
10°-20°	622.2	3.5
20°-30°	1204.7	6.7
30°-40°	2037.7	11.4
40°-50°	3250.7	18.1
50°-60°	4449.5	24.8
60°-70°	4194.0	23.4
70°-80°	1847.6	10.3
80°-90°	139.0	0.8
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°	17928.2	100.0
0°-180°	17928.2	100.0

**Coefficient of Utilization**



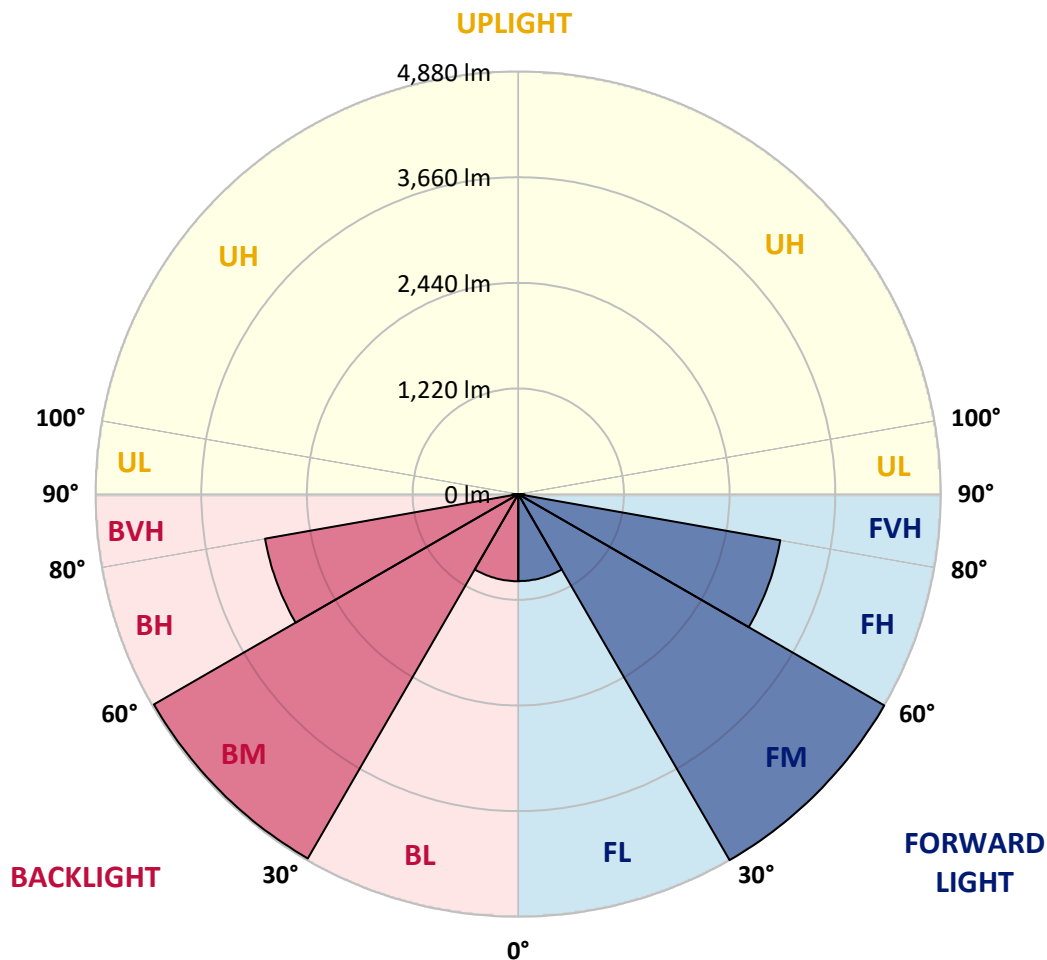
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.3	5.6			
FM (30°-60°)	4879.9	27.2			
FH (60°-80°)	3072.7	17.1			G2/5000
FVH (80°-90°)	71.0	0.4			G1/100
BL (0°-30°)	1005.4	5.6	B3/2500		
BM (30°-60°)	4858.1	27.1	B3/5000		
BH (60°-80°)	2968.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	68.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8
2.5°	1824.2	1824.2	1822.3	1832.0	1841.6	1845.5	1853.2	1855.2	1866.7	1857.1	1876.4
5°	1818.4	1816.5	1832.0	1855.2	1855.2	1880.3	1895.7	1917.0	1922.8	1934.4	1938.2
7.5°	1859.0	1855.2	1847.4	1872.5	1893.8	1932.4	1953.7	1990.4	2003.9	2019.4	2036.8
10°	1884.1	1884.1	1876.4	1920.9	1940.2	1992.4	2038.7	2075.5	2127.6	2145.0	2147.0
12.5°	1888.0	1893.8	1917.0	1975.0	2029.1	2096.7	2131.5	2201.1	2253.2	2286.1	2297.7
15°	1946.0	1934.4	1959.5	2038.7	2118.0	2177.9	2239.7	2290.0	2365.3	2407.8	2434.9
17.5°	1998.2	1986.6	2032.9	2127.6	2208.8	2301.5	2355.7	2409.8	2463.9	2502.5	2504.5
20°	2081.2	2090.9	2131.5	2233.9	2340.2	2421.4	2483.2	2492.9	2519.9	2576.0	2566.3
22.5°	2183.7	2175.9	2261.0	2373.0	2489.0	2556.6	2591.4	2566.3	2552.8	2612.7	2626.2
25°	2286.1	2309.3	2386.6	2490.9	2630.1	2720.9	2730.6	2661.0	2610.7	2632.0	2626.2
27.5°	2442.6	2446.5	2527.6	2651.3	2792.4	2871.6	2865.8	2767.3	2670.6	2672.6	2676.4
30°	2643.6	2624.3	2713.2	2825.2	2964.4	3035.9	3045.5	2904.5	2775.0	2736.3	2746.0
32.5°	2836.8	2860.0	2937.3	3064.9	3167.3	3207.9	3186.6	3061.0	2892.9	2840.7	2846.5
35°	3084.2	3080.3	3186.6	3294.8	3372.1	3379.9	3362.5	3178.9	3020.4	2952.8	2925.7
37.5°	3348.9	3383.7	3453.3	3542.2	3623.3	3627.2	3532.5	3385.7	3190.5	3078.4	3111.2
40°	3644.6	3683.2	3733.5	3863.0	3922.9	3861.0	3764.4	3565.4	3362.5	3263.9	3279.4
42.5°	3905.5	3922.9	4025.3	4178.0	4206.9	4179.9	4036.9	3795.3	3559.6	3451.4	3459.1
45°	4145.1	4168.3	4301.6	4438.8	4506.5	4460.1	4293.9	4063.9	3789.5	3696.8	3660.1
47.5°	4365.4	4411.8	4541.3	4682.3	4786.7	4790.5	4585.7	4307.4	4017.6	3895.8	3893.9
50°	4514.2	4581.8	4709.4	4869.8	5022.4	5082.3	4877.5	4578.0	4266.8	4137.4	4123.8
52.5°	4595.4	4664.9	4792.5	5041.8	5211.8	5304.6	5208.0	4831.1	4558.6	4423.4	4402.1
55°	4496.8	4543.2	4751.9	5101.7	5364.5	5517.1	5453.4	5180.9	4848.5	4738.4	4757.7
57.5°	4077.5	4174.1	4431.1	4867.8	5360.6	5735.5	5729.7	5511.3	5182.8	5078.5	5082.3
60°	3356.7	3437.8	3754.7	4365.4	5144.2	5824.4	6029.2	5832.1	5557.7	5436.0	5432.1
62.5°	2369.2	2471.6	2838.8	3505.5	4506.5	5700.7	6373.2	6236.0	5924.9	5836.0	5868.8
65°	1325.7	1387.5	1727.6	2330.5	3434.0	5020.5	6435.1	6655.4	6297.9	6162.6	6168.4
67.5°	709.2	732.4	890.9	1223.2	2100.6	3870.7	5810.9	6896.9	6701.7	6467.9	6431.2
70°	487.0	494.7	535.3	626.1	993.3	2315.1	4382.8	6466.0	7005.1	6686.3	6748.1
72.5°	411.6	407.7	417.4	427.1	519.8	1035.8	2572.1	4976.1	6612.8	6493.0	6469.8
75°	357.5	355.6	359.4	349.8	361.4	456.1	1138.2	3101.6	4840.8	5403.1	5490.1
77.5°	295.7	297.6	299.5	289.9	286.0	301.5	458.0	1362.4	2382.7	2630.1	2836.8
80°	224.2	228.0	243.5	233.8	218.4	220.3	270.5	456.1	684.1	620.3	639.6
82.5°	152.7	154.6	187.4	175.9	164.3	148.8	173.9	235.8	266.7	202.9	177.8
85°	108.2	106.3	121.7	112.1	104.4	75.4	104.4	133.3	160.4	100.5	90.8
87.5°	25.1	25.1	50.2	40.6	38.6	30.9	40.6	52.2	69.6	44.4	40.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8	1835.8
2.5°	1870.6	1853.2	1853.2	1849.4	1833.9	1830.0	1816.5	1820.4	1810.7	1801.0
5°	1936.3	1913.1	1913.1	1880.3	1849.4	1845.5	1830.0	1830.0	1814.6	1818.4
7.5°	2027.1	2005.9	1971.1	1942.1	1899.6	1882.2	1853.2	1849.4	1845.5	1837.8
10°	2135.4	2108.3	2073.5	2013.6	1978.8	1946.0	1917.0	1876.4	1866.7	1868.7
12.5°	2282.2	2239.7	2164.3	2112.2	2067.7	2025.2	1982.7	1922.8	1909.3	1915.1
15°	2386.6	2332.5	2257.1	2237.8	2177.9	2125.7	2056.1	1988.5	1965.3	1959.5
17.5°	2471.6	2427.2	2382.7	2353.7	2305.4	2241.6	2145.0	2067.7	2015.5	2009.7
20°	2541.2	2483.2	2473.5	2490.9	2431.0	2388.5	2270.6	2175.9	2106.4	2077.4
22.5°	2583.7	2547.0	2574.0	2589.5	2585.6	2514.1	2392.4	2282.2	2195.3	2168.2
25°	2630.1	2587.5	2684.2	2736.3	2749.9	2632.0	2537.3	2392.4	2307.3	2290.0
27.5°	2653.3	2668.7	2780.8	2890.9	2881.3	2790.5	2662.9	2533.4	2465.8	2434.9
30°	2720.9	2746.0	2916.1	3039.7	3041.7	2952.8	2856.2	2709.3	2633.9	2620.4
32.5°	2842.6	2873.6	3055.2	3186.6	3209.8	3142.2	3045.5	2954.7	2877.4	2846.5
35°	2935.4	3014.6	3219.5	3339.3	3401.1	3360.5	3306.4	3211.7	3130.6	3103.5
37.5°	3068.7	3178.9	3376.0	3538.3	3607.9	3604.0	3563.4	3461.0	3393.4	3370.2
40°	3260.0	3370.2	3549.9	3764.4	3893.9	3888.1	3864.9	3785.7	3685.2	3673.6
42.5°	3462.9	3553.8	3787.6	4033.0	4218.5	4199.2	4137.4	4044.6	3975.0	3959.6
45°	3660.1	3801.1	4017.6	4332.6	4471.7	4520.0	4446.6	4288.1	4208.9	4199.2
47.5°	3907.4	4019.5	4290.0	4572.2	4778.9	4786.7	4661.1	4514.2	4369.3	4400.2
50°	4127.7	4276.5	4550.9	4860.1	5107.5	5018.6	4858.2	4674.6	4570.2	4529.7
52.5°	4363.5	4545.1	4864.0	5179.0	5316.2	5227.3	4966.4	4761.6	4603.1	4585.7
55°	4707.4	4802.1	5219.5	5461.1	5505.5	5318.1	4933.5	4643.7	4438.8	4388.6
57.5°	5057.2	5167.4	5532.6	5741.3	5694.9	5267.9	4721.0	4272.6	4004.0	3932.5
60°	5410.9	5546.1	5853.4	6044.7	5805.1	4921.9	4120.0	3542.2	3229.1	3165.4
62.5°	5805.1	5980.9	6255.3	6323.0	5478.5	4237.9	3269.7	2556.6	2239.7	2133.4
65°	6154.9	6334.6	6672.7	6265.0	4784.7	3161.5	2114.1	1460.9	1227.1	1142.1
67.5°	6442.8	6645.7	6811.9	5544.2	3503.5	1851.3	1101.5	769.1	682.2	651.2
70°	6670.8	7009.0	6232.1	4075.5	2002.0	902.5	595.2	506.3	494.7	487.0
72.5°	6471.8	6427.3	4653.3	2351.8	877.3	496.6	430.9	417.4	415.5	417.4
75°	5293.0	4721.0	2782.7	1022.3	440.6	359.4	357.5	351.7	361.4	361.4
77.5°	2568.2	2245.5	1163.3	438.7	289.9	282.1	291.8	291.8	291.8	291.8
80°	595.2	659.0	415.5	266.7	210.6	210.6	231.9	233.8	224.2	220.3
82.5°	202.9	270.5	228.0	168.1	139.1	156.5	175.9	179.7	148.8	150.7
85°	100.5	158.5	123.7	96.6	71.5	96.6	114.0	119.8	102.4	98.6
87.5°	46.4	69.6	46.4	32.9	25.1	34.8	32.9	27.1	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)