

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: P479211

Luminaire Tested: **IFLD-S-SA3C-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479211  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

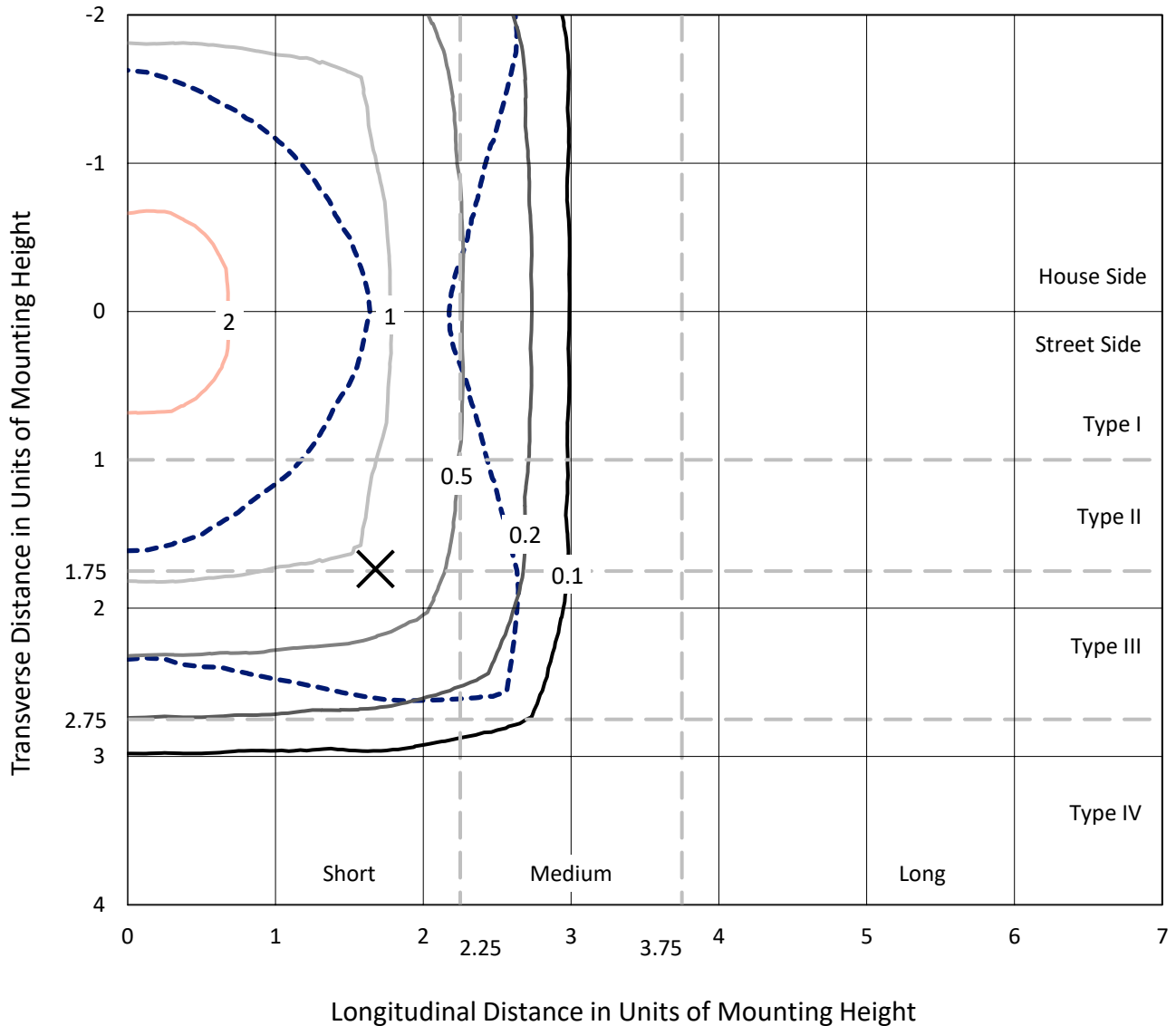
Lumens per Lamp: N/A  
Luminaire Lumens: 17881.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

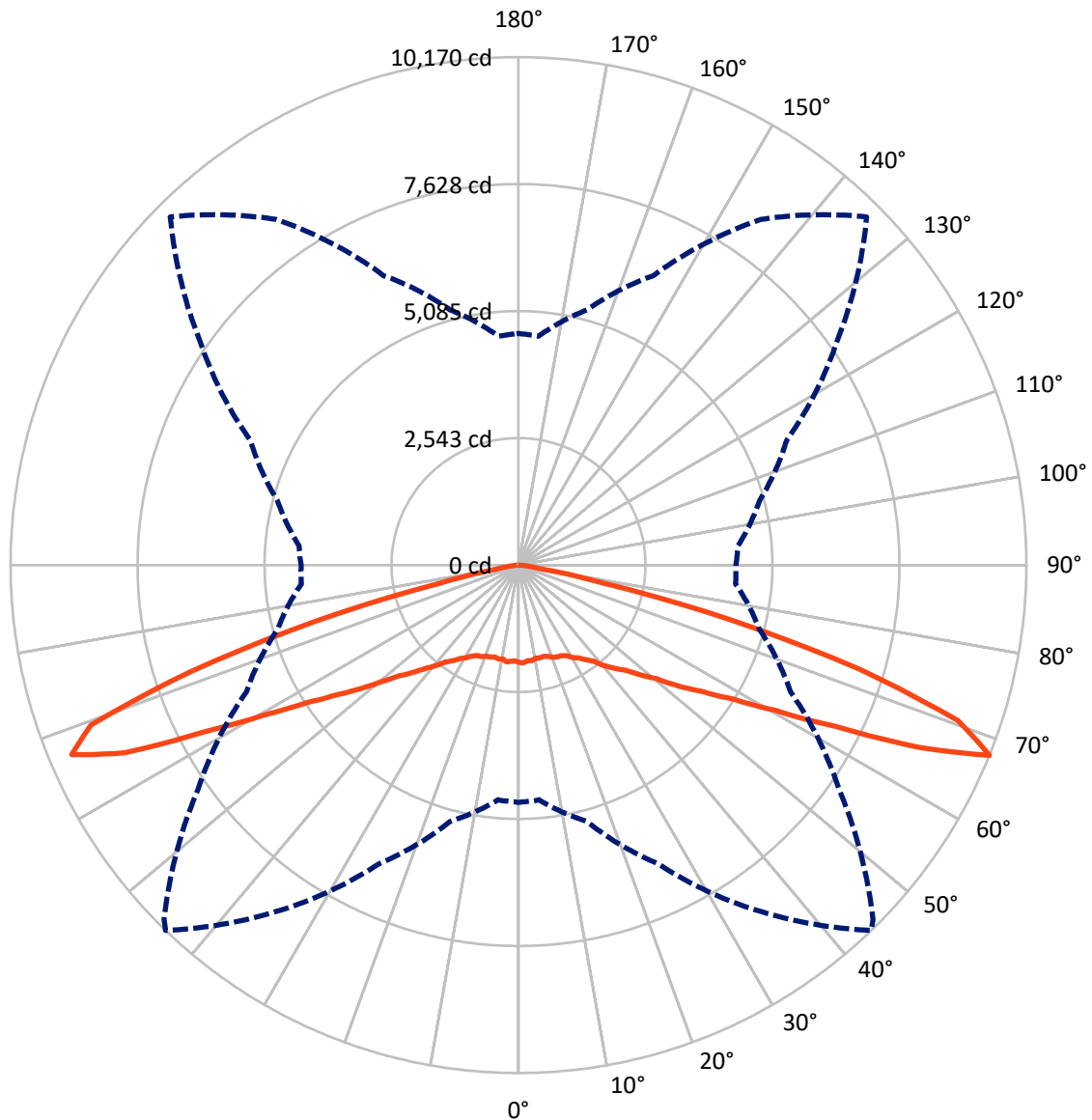
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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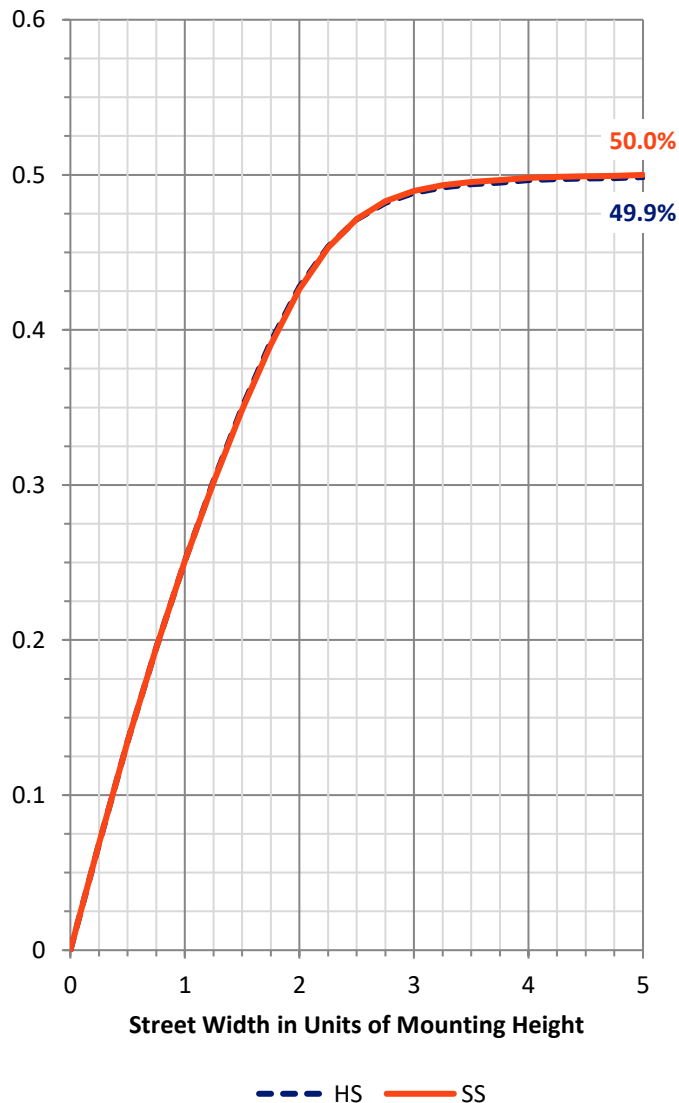
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8917.7	0.0	8917.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	8963.5	0.0	8963.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	17881.2	0.0	17881.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.8	1.0
10°-20°	540.0	3.0
20°-30°	918.3	5.1
30°-40°	1455.9	8.1
40°-50°	2374.1	13.3
50°-60°	4054.6	22.7
60°-70°	6166.9	34.5
70°-80°	2078.6	11.6
80°-90°	107.9	0.6
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°	17881.2	100.0
0°-180°	17881.2	100.0

**Coefficient of Utilization**



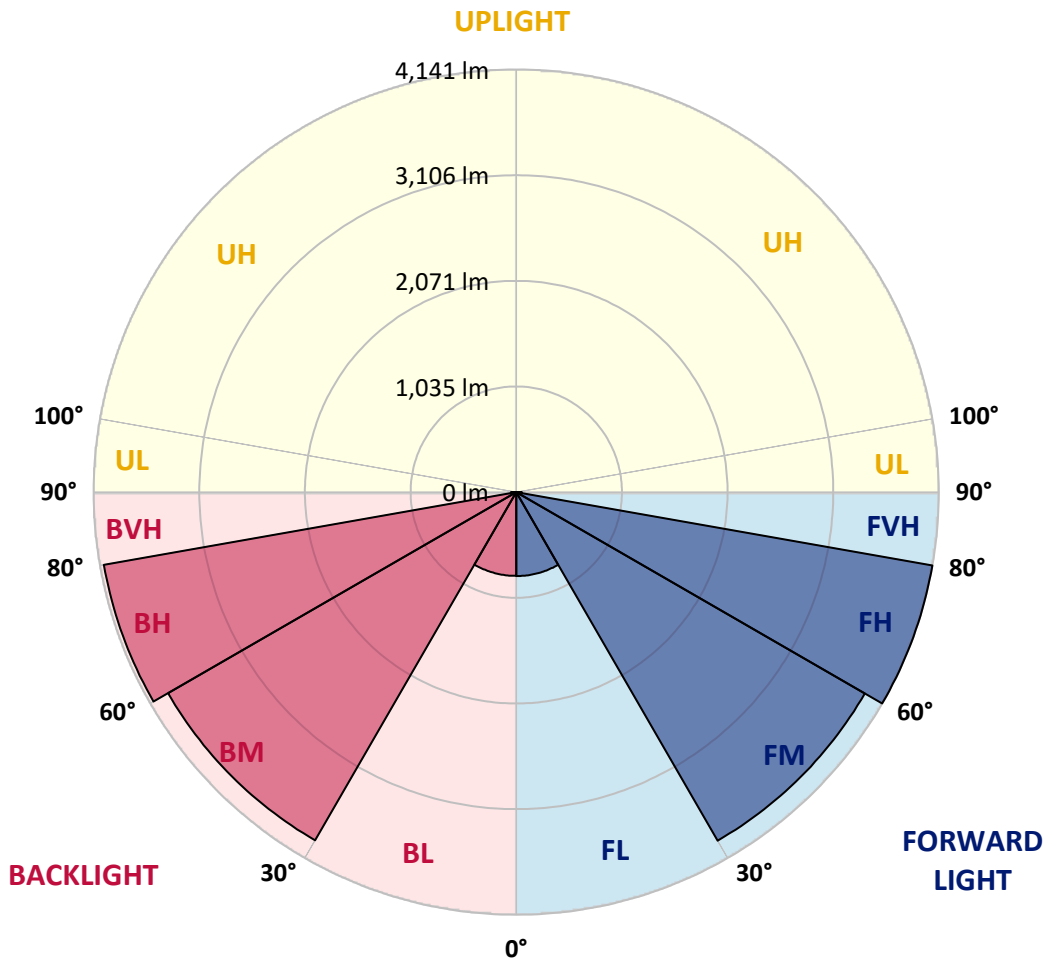
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 CATALOG NUMBER: IFLD-S-SA3C-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.4	4.6			
FM (30°-60°)	3944.4	22.1			
FH (60°-80°)	4141.5	23.2			G2/5000
FVH (80°-90°)	55.2	0.3			G1/100
BL (0°-30°)	820.7	4.6	B2/1000		
BM (30°-60°)	3940.1	22.0	B3/5000		
BH (60°-80°)	4104.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	52.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2
2.5°	1908.3	1930.8	1947.1	1945.0	1951.2	1957.3	1949.1	1961.4	1953.2	1967.5	1975.7
5°	1945.0	1938.9	1941.0	1928.7	1957.3	1924.6	1924.6	1941.0	1961.4	1936.9	1951.2
7.5°	1922.6	1918.5	1908.3	1926.7	1932.8	1932.8	1949.1	1918.5	1953.2	1961.4	1963.4
10°	1898.1	1875.7	1906.3	1924.6	1928.7	1896.1	1910.3	1918.5	1908.3	1918.5	1924.6
12.5°	1877.7	1889.9	1889.9	1889.9	1883.8	1906.3	1920.6	1918.5	1898.1	1916.5	1883.8
15°	1875.7	1869.5	1887.9	1904.2	1894.0	1898.1	1904.2	1922.6	1883.8	1892.0	1892.0
17.5°	1873.6	1881.8	1887.9	1885.9	1920.6	1920.6	1914.4	1902.2	1932.8	1916.5	1894.0
20°	1881.8	1875.7	1892.0	1898.1	1922.6	1971.6	1953.2	1943.0	1926.7	1906.3	1906.3
22.5°	1892.0	1887.9	1910.3	1936.9	1983.8	1996.1	1994.0	1981.8	1953.2	1928.7	1924.6
25°	1928.7	1892.0	1916.5	1967.5	1983.8	2008.3	2024.6	2008.3	1969.5	1975.7	1938.9
27.5°	1983.8	1977.7	2010.4	2045.1	2030.8	2053.2	2038.9	2051.2	2053.2	2022.6	1985.9
30°	2049.1	2030.8	2051.2	2118.5	2124.6	2149.1	2124.6	2092.0	2102.2	2075.7	2057.3
32.5°	2143.0	2136.9	2175.7	2220.6	2228.7	2216.5	2204.2	2222.6	2179.8	2159.3	2126.7
35°	2204.2	2230.8	2277.7	2312.4	2339.0	2326.7	2332.8	2314.5	2324.7	2281.8	2267.5
37.5°	2385.9	2375.7	2385.9	2445.1	2451.2	2445.1	2451.2	2471.6	2457.3	2420.6	2383.9
40°	2557.3	2541.0	2565.5	2632.9	2628.8	2649.2	2608.4	2630.8	2630.8	2561.4	2547.1
42.5°	2685.9	2741.0	2769.6	2824.7	2845.1	2826.7	2818.6	2822.7	2867.6	2785.9	2755.3
45°	2951.2	2949.2	3034.9	3065.5	3008.4	3004.3	2988.0	3037.0	3067.6	3020.6	3008.4
47.5°	3239.0	3253.3	3302.3	3314.5	3349.2	3286.0	3286.0	3292.1	3400.3	3290.0	3232.9
50°	3498.2	3516.6	3614.6	3710.5	3645.2	3577.8	3604.4	3637.0	3696.2	3592.1	3543.1
52.5°	3812.5	3912.5	3977.9	4028.9	4075.8	4028.9	3967.6	4004.4	4120.7	3981.9	3920.7
55°	4265.6	4345.2	4406.5	4500.3	4539.1	4475.8	4469.7	4465.6	4531.0	4384.0	4300.3
57.5°	4771.8	4739.1	4837.1	4982.0	5122.8	5061.6	5043.2	5047.3	5063.6	4855.5	4792.2
60°	5400.4	5437.1	5553.5	5680.0	5829.0	5914.7	5794.3	5724.9	5739.2	5455.5	5357.5
62.5°	5759.6	5841.3	6104.5	6539.3	6839.3	7106.7	7125.0	6674.0	6371.9	5820.8	5404.5
65°	5586.1	5573.9	6069.8	6874.0	8010.8	8788.4	8672.1	7578.1	6522.9	5647.4	5088.1
67.5°	4751.4	4718.7	5318.8	6594.4	8472.1	10170.2	10037.5	7833.2	6012.7	4996.3	4363.6
70°	3061.5	3053.3	3704.4	5026.9	7563.8	9337.4	9386.4	7114.8	4894.2	3659.5	3032.9
72.5°	1112.3	1179.7	1557.3	2702.2	5137.1	7143.4	7174.0	5267.7	2814.5	1692.0	1247.0
75°	410.2	422.5	491.9	877.6	2341.0	4386.0	4500.3	2555.3	1000.1	551.1	449.0
77.5°	236.8	238.8	263.3	326.6	693.9	1712.4	1781.8	775.6	387.8	293.9	271.4
80°	161.2	159.2	185.7	212.3	277.6	485.8	516.4	324.5	244.9	204.1	171.4
82.5°	93.9	100.0	136.7	151.0	169.4	214.3	218.4	202.1	183.7	151.0	112.3
85°	57.1	46.9	75.5	83.7	98.0	95.9	95.9	110.2	118.4	106.1	63.3
87.5°	14.3	14.3	18.4	20.4	26.5	20.4	22.5	42.9	57.1	53.1	32.7
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°	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2	1953.2
2.5°	1957.3	1951.2	1955.2	1977.7	1963.4	1920.6	1930.8	1953.2	1934.8	1924.6	1922.6
5°	1949.1	1961.4	1947.1	1951.2	1965.5	1930.8	1936.9	1965.5	1953.2	1957.3	1934.8
7.5°	1951.2	1957.3	1945.0	1926.7	1926.7	1955.2	1938.9	1943.0	1924.6	1955.2	1914.4
10°	1938.9	1922.6	1908.3	1918.5	1914.4	1906.3	1900.1	1912.4	1894.0	1920.6	1892.0
12.5°	1902.2	1906.3	1902.2	1898.1	1906.3	1926.7	1894.0	1898.1	1869.5	1873.6	1887.9
15°	1887.9	1900.1	1896.1	1918.5	1928.7	1898.1	1922.6	1898.1	1875.7	1863.4	1885.9
17.5°	1894.0	1912.4	1906.3	1922.6	1904.2	1926.7	1930.8	1920.6	1894.0	1883.8	1894.0
20°	1900.1	1894.0	1902.2	1930.8	1957.3	1934.8	1934.8	1928.7	1904.2	1889.9	1889.9
22.5°	1914.4	1904.2	1916.5	1938.9	1947.1	1981.8	1951.2	1936.9	1896.1	1859.3	1894.0
25°	1943.0	1949.1	1957.3	1949.1	1994.0	1989.9	1985.9	1975.7	1912.4	1914.4	1908.3
27.5°	1998.1	1963.4	1973.6	2022.6	2028.7	2045.1	2024.6	2043.0	1975.7	1977.7	1936.9
30°	2065.5	2028.7	2061.4	2104.2	2102.2	2132.8	2122.6	2126.7	2079.7	2053.2	1998.1
32.5°	2138.9	2134.9	2155.3	2181.8	2192.0	2208.3	2206.3	2206.3	2177.7	2108.3	2118.5
35°	2220.6	2249.1	2273.6	2302.2	2306.3	2326.7	2298.1	2302.2	2273.6	2222.6	2238.9
37.5°	2381.8	2379.8	2406.3	2441.0	2445.1	2428.8	2451.2	2441.0	2402.2	2367.5	2341.0
40°	2569.6	2528.8	2553.3	2634.9	2641.0	2612.4	2610.4	2608.4	2579.8	2504.3	2487.9
42.5°	2732.9	2785.9	2781.8	2808.4	2790.0	2775.7	2826.7	2798.2	2775.7	2696.1	2681.8
45°	2943.1	2959.4	3012.5	3098.2	3010.4	3010.4	3045.1	3022.7	3010.4	2951.2	2896.1
47.5°	3204.3	3218.6	3324.7	3330.9	3273.7	3234.9	3343.1	3347.2	3296.2	3251.3	3183.9
50°	3510.5	3516.6	3612.5	3710.5	3647.2	3573.7	3684.0	3726.8	3612.5	3551.3	3467.6
52.5°	3847.2	3828.9	3908.5	4092.1	4030.9	4008.5	4126.8	4137.0	3981.9	3886.0	3908.5
55°	4235.0	4210.5	4426.9	4551.4	4512.6	4471.8	4524.8	4549.3	4424.8	4267.7	4322.8
57.5°	4737.1	4749.3	4857.5	4980.0	5043.2	5053.4	5077.9	5053.4	4926.9	4767.7	4716.7
60°	5239.2	5275.9	5486.1	5716.8	5737.2	5916.8	5884.1	5761.7	5582.1	5355.5	5365.7
62.5°	5424.9	5394.3	5733.1	6296.4	6776.0	7104.6	6959.7	6525.0	6108.6	5696.3	5727.0
65°	5051.4	5126.9	5588.2	6469.9	7510.8	8810.9	8039.4	6837.2	5996.4	5463.7	5404.5
67.5°	4353.4	4410.5	4996.3	5927.0	7774.1	9859.9	8447.6	6396.4	5288.2	4598.3	4635.0
70°	3032.9	3061.5	3635.0	4855.5	7049.5	9304.8	7621.0	4912.6	3651.3	2910.4	2951.2
72.5°	1220.5	1289.9	1667.5	2924.7	5204.5	7069.9	5131.0	2577.7	1514.4	1126.6	1022.5
75°	451.1	453.1	532.7	1006.2	2471.6	4443.2	2314.5	828.6	483.7	395.9	377.6
77.5°	261.2	259.2	277.6	363.3	716.4	1734.8	657.2	324.5	263.3	236.8	226.5
80°	163.3	161.2	189.8	240.8	314.3	475.5	277.6	202.1	177.6	153.1	153.1
82.5°	104.1	106.1	149.0	177.6	191.9	210.2	161.2	142.9	132.7	87.8	85.7
85°	67.4	61.2	104.1	118.4	106.1	93.9	89.8	75.5	69.4	42.9	46.9
87.5°	30.6	32.7	53.1	59.2	38.8	22.5	22.5	16.3	16.3	10.2	10.2
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)