

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: P478818

Luminaire Tested: **IFLD-S-SA2E-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478818  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

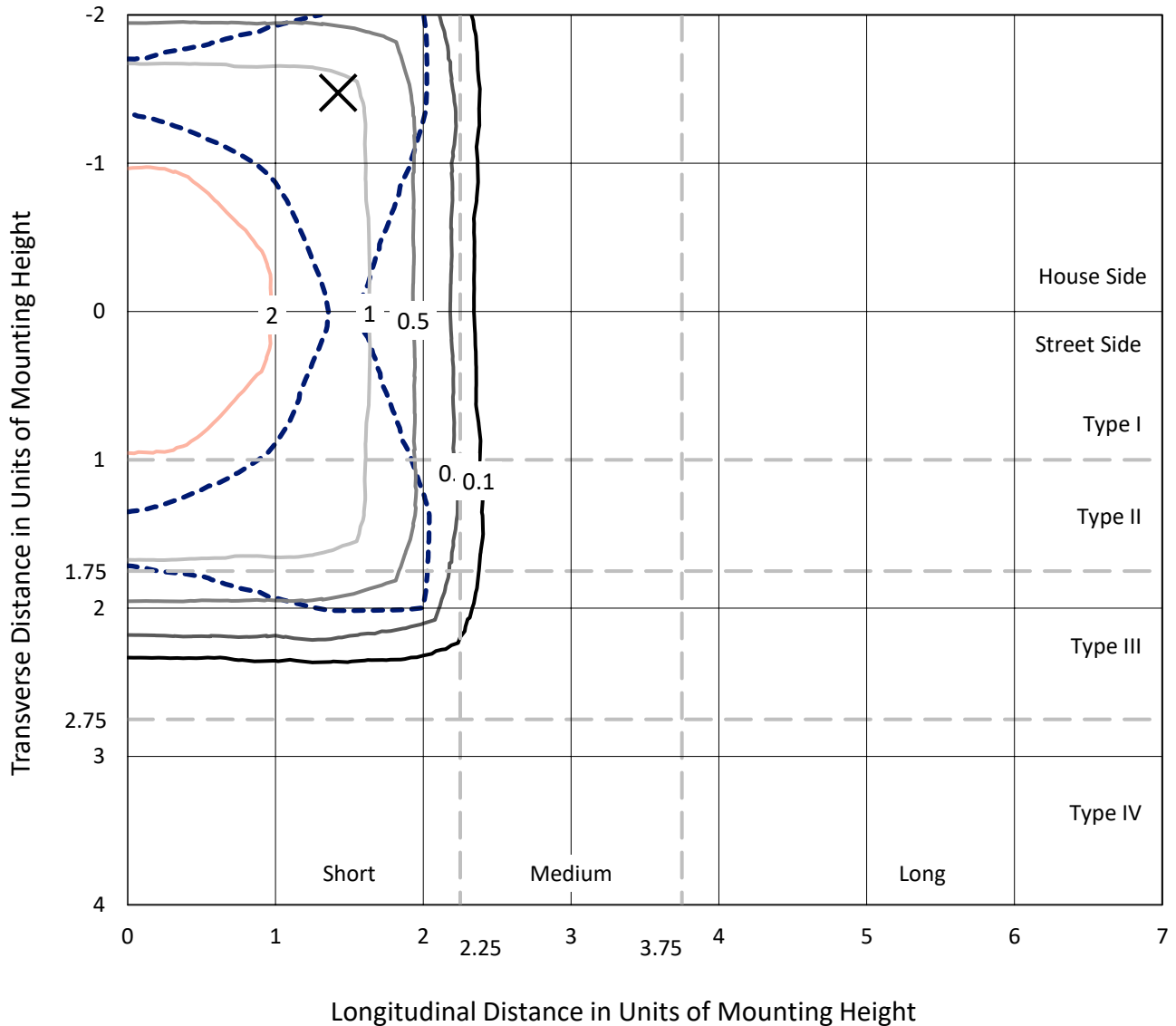
Lumens per Lamp: N/A  
Luminaire Lumens: 15096.7 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 156.2  
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

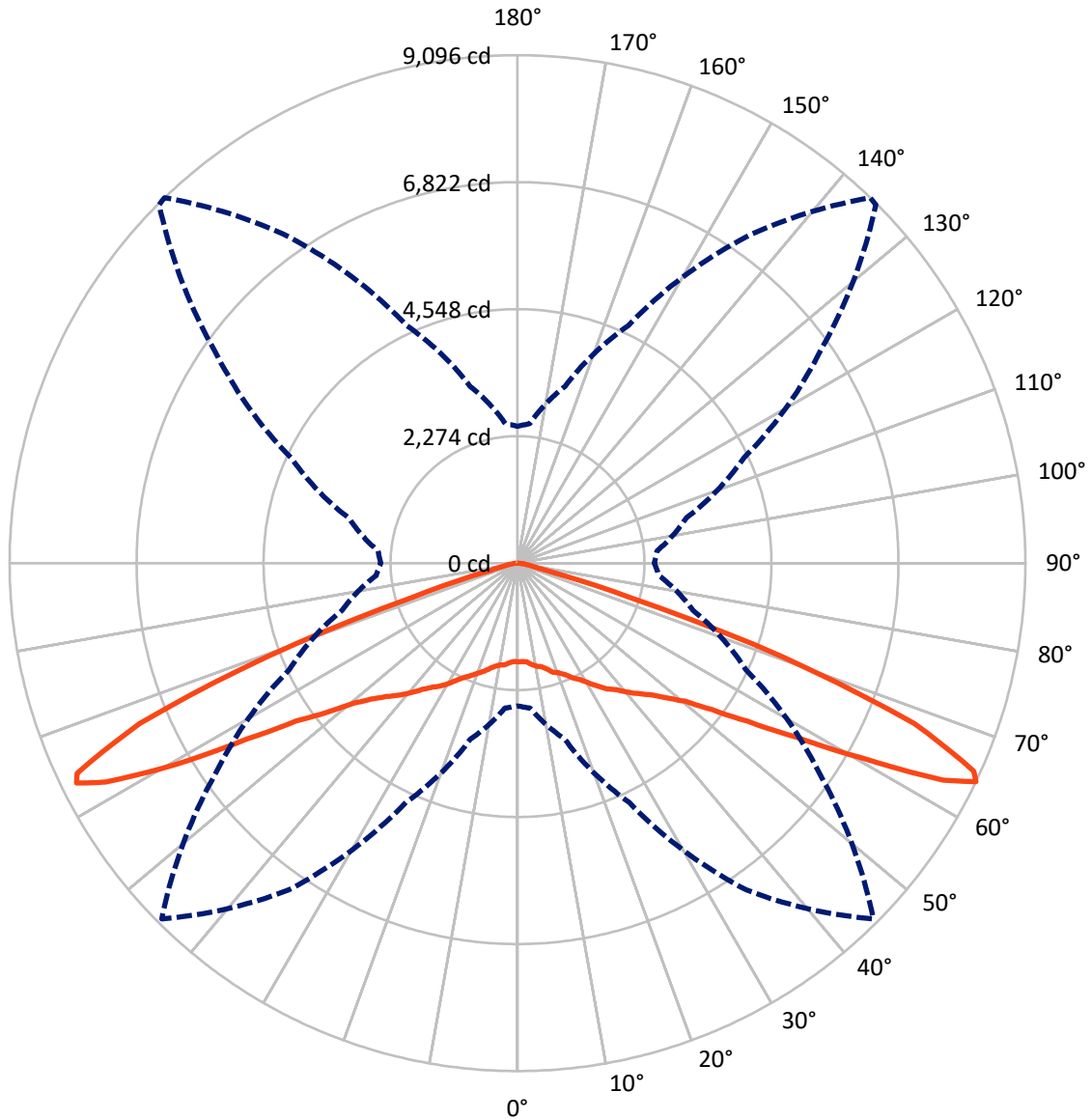
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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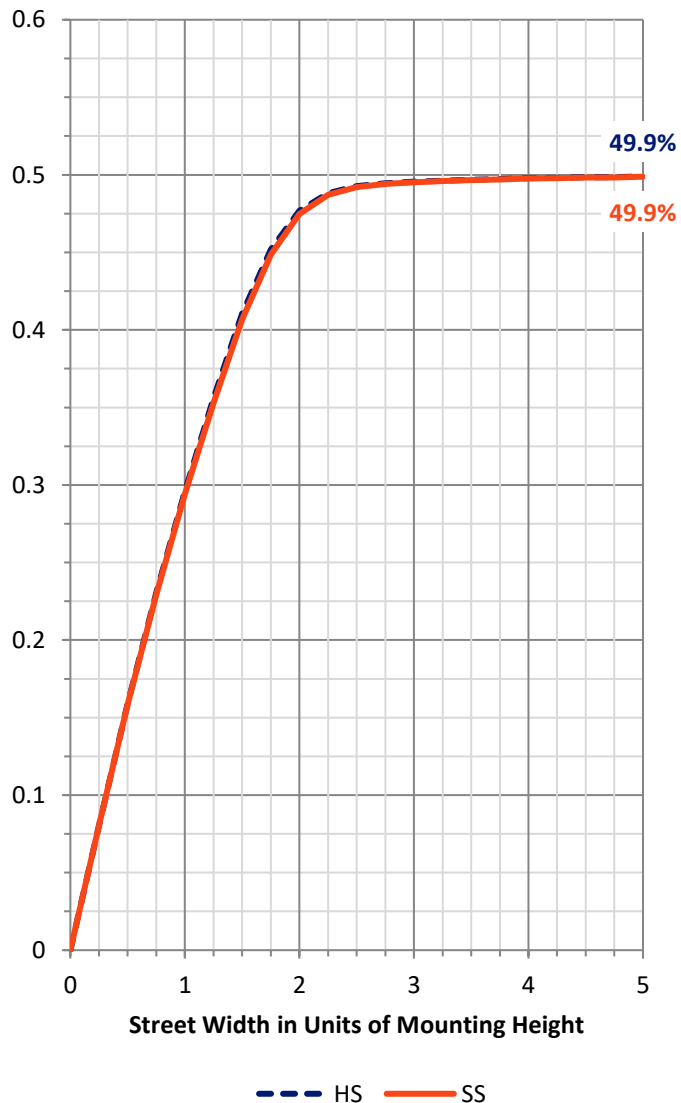
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7555.6	0.0	7555.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7541.2	0.0	7541.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15096.7	0.0	15096.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.7	1.2
10°-20°	559.7	3.7
20°-30°	1052.0	7.0
30°-40°	1734.9	11.5
40°-50°	2713.3	18.0
50°-60°	4384.0	29.0
60°-70°	3947.5	26.1
70°-80°	467.6	3.1
80°-90°	64.0	0.4
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°	15096.7	100.0
0°-180°	15096.7	100.0

**Coefficient of Utilization**



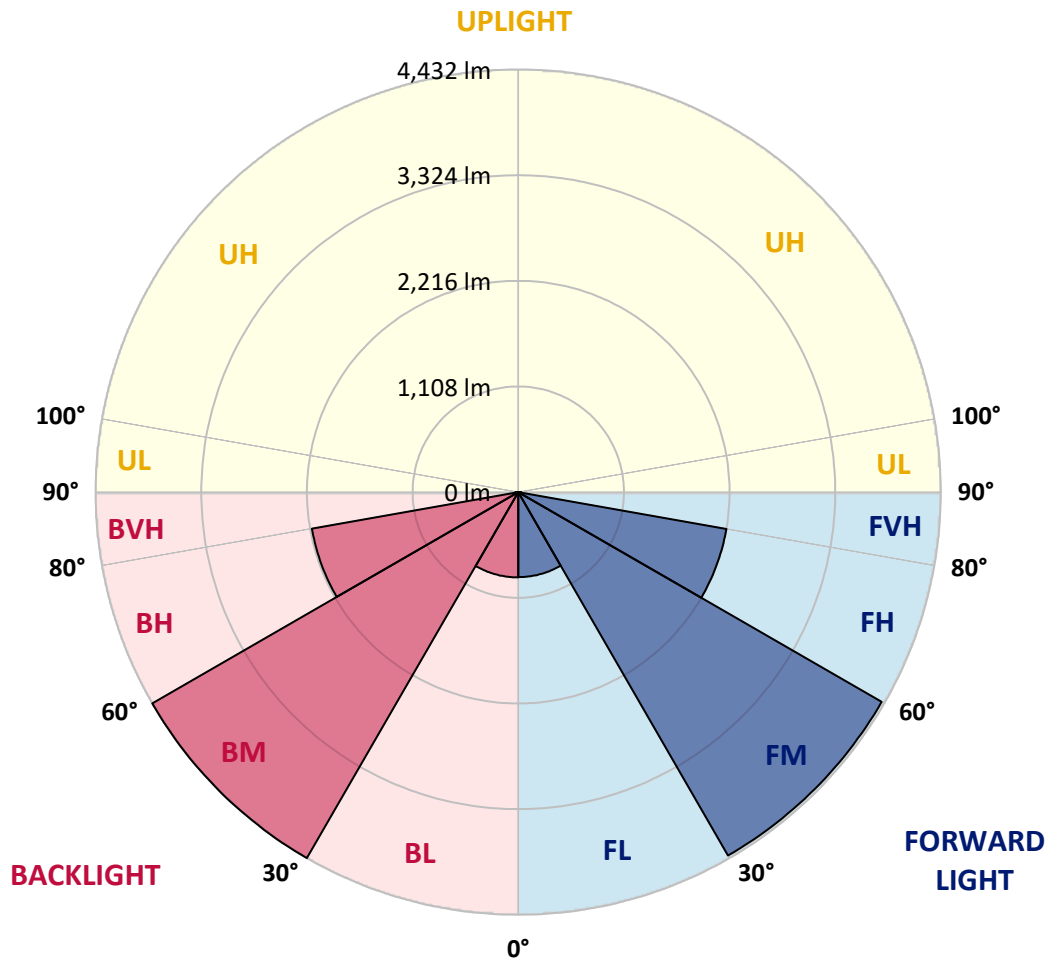
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.0	5.9			
FM (30°-60°)	4400.2	29.1			
FH (60°-80°)	2217.1	14.7			G2/5000
FVH (80°-90°)	32.8	0.2			G1/100
BL (0°-30°)	894.4	5.9	B2/1000		
BM (30°-60°)	4432.0	29.4	B3/5000		
BH (60°-80°)	2198.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	31.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1746.7	1750.2	1781.4	1769.2	1779.6	1760.6	1774.4	1803.9	1769.2	1795.2	1803.9
5°	1765.8	1771.0	1771.0	1783.1	1790.0	1786.6	1795.2	1783.1	1816.0	1802.1	1822.9
7.5°	1835.0	1826.4	1812.5	1822.9	1824.6	1833.3	1842.0	1857.5	1852.3	1840.2	1861.0
10°	1847.2	1840.2	1861.0	1862.7	1854.1	1847.2	1855.8	1855.8	1871.4	1874.9	1874.9
12.5°	1867.9	1874.9	1873.1	1887.0	1888.7	1883.5	1897.4	1923.3	1916.4	1921.6	1909.5
15°	1947.6	1938.9	1937.2	1951.0	1973.5	1940.6	1964.9	1963.1	1956.2	1966.6	1938.9
17.5°	2016.8	1989.1	2001.2	2023.7	2015.1	2022.0	2053.2	2025.5	2032.4	2020.3	2011.6
20°	2077.4	2054.9	2056.6	2065.3	2065.3	2086.1	2098.2	2087.8	2080.9	2079.1	2082.6
22.5°	2144.9	2118.9	2120.7	2157.0	2169.1	2162.2	2153.6	2170.9	2174.3	2160.5	2176.1
25°	2195.1	2222.8	2231.5	2248.8	2222.8	2241.9	2234.9	2267.8	2288.6	2260.9	2279.9
27.5°	2326.7	2314.6	2337.1	2335.3	2356.1	2337.1	2349.2	2359.6	2368.2	2370.0	2361.3
30°	2444.4	2449.6	2427.1	2487.7	2439.2	2470.4	2491.1	2496.3	2506.7	2506.7	2480.8
32.5°	2569.0	2558.7	2595.0	2581.2	2572.5	2596.7	2574.2	2645.2	2603.7	2627.9	2598.5
35°	2709.3	2709.3	2723.1	2761.2	2709.3	2693.7	2735.2	2764.7	2764.7	2721.4	2731.8
37.5°	2866.8	2853.0	2870.3	2918.7	2878.9	2827.0	2903.2	2915.3	2906.6	2894.5	2873.7
40°	2977.6	2974.1	3008.8	3072.8	3015.7	3005.3	3019.1	3052.0	3062.4	3074.5	3046.8
42.5°	3164.6	3180.1	3280.6	3265.0	3218.2	3181.9	3178.4	3301.3	3271.9	3240.7	3225.2
45°	3441.6	3427.7	3479.6	3481.4	3420.8	3341.1	3358.5	3471.0	3521.2	3451.9	3477.9
47.5°	3661.4	3668.3	3704.7	3779.1	3638.9	3555.8	3619.9	3801.6	3786.1	3760.1	3784.3
50°	3955.7	3986.9	4101.1	4075.2	3950.5	3848.4	3988.6	4160.0	4179.0	4083.8	4066.5
52.5°	4362.5	4411.0	4473.3	4494.1	4374.7	4338.3	4347.0	4559.9	4513.1	4421.4	4362.5
55°	4719.2	4741.7	4855.9	5027.3	5018.6	4843.8	4944.2	5023.8	4833.4	4644.7	4660.3
57.5°	4871.5	4881.9	5200.4	5543.2	5747.5	5787.3	5673.0	5404.7	4951.1	4587.6	4565.1
60°	4492.4	4591.0	4975.4	5749.2	6682.3	7142.8	6382.8	5448.0	4675.9	4234.4	4201.5
62.5°	3590.4	3595.6	4166.9	5340.6	7264.0	8470.6	6654.6	5041.1	3941.9	3441.6	3310.0
64°	2556.9	2605.4	3261.5	4727.8	7142.8	9010.7	6621.7	4509.7	3249.4	2539.6	2447.9
65°	1835.0	1902.5	2536.2	4104.6	6858.9	8946.7	6523.0	4052.7	2627.9	1938.9	1845.4
67.5°	675.2	702.9	995.4	2053.2	4925.2	7624.0	5169.3	2228.0	1154.7	822.3	739.2
70°	313.3	315.1	368.7	678.6	2153.6	5098.3	2466.9	836.2	434.5	344.5	320.3
72.5°	230.2	235.4	257.9	313.3	633.6	2158.8	810.2	342.8	254.5	225.1	219.9
75°	187.0	190.4	197.4	226.8	292.6	578.2	328.9	237.2	202.5	181.8	174.8
77.5°	143.7	143.7	159.3	173.1	193.9	270.1	218.1	188.7	164.5	143.7	138.5
80°	103.9	105.6	124.6	135.0	131.6	178.3	157.5	155.8	135.0	112.5	103.9
82.5°	60.6	65.8	90.0	96.9	93.5	105.6	114.3	121.2	105.6	77.9	71.0
85°	34.6	36.4	51.9	53.7	53.7	50.2	65.8	72.7	71.0	48.5	43.3
87.5°	10.4	10.4	13.8	13.8	15.6	17.3	26.0	31.2	34.6	24.2	22.5
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°	136°	145°	155°	165°	175°	180°
0°	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1795.2	1769.2	1771.0	1777.9	1755.4	1764.1	1790.0	1771.0	1765.8	1755.4	1750.2
5°	1786.6	1814.3	1803.9	1807.3	1802.1	1777.9	1774.4	1790.0	1798.7	1783.1	1814.3
7.5°	1847.2	1835.0	1821.2	1826.4	1814.3	1835.0	1848.9	1817.7	1833.3	1824.6	1807.3
10°	1881.8	1859.3	1869.7	1866.2	1857.5	1878.3	1864.5	1861.0	1847.2	1828.1	1855.8
12.5°	1893.9	1919.9	1937.2	1907.7	1912.9	1902.5	1893.9	1893.9	1878.3	1873.1	1878.3
15°	1947.6	1970.1	1963.1	1985.6	1956.2	1966.6	1977.0	1951.0	1964.9	1926.8	1956.2
17.5°	2046.2	2027.2	2051.4	2022.0	2032.4	2053.2	2020.3	2020.3	2030.7	2009.9	1983.9
20°	2108.6	2099.9	2091.2	2093.0	2075.7	2094.7	2084.3	2079.1	2063.5	2070.5	2084.3
22.5°	2167.4	2155.3	2158.8	2164.0	2176.1	2167.4	2162.2	2167.4	2129.3	2164.0	2115.5
25°	2240.1	2273.0	2262.6	2285.1	2250.5	2273.0	2271.3	2238.4	2259.2	2245.3	2234.9
27.5°	2361.3	2344.0	2359.6	2331.9	2356.1	2357.8	2337.1	2392.5	2368.2	2364.8	2357.8
30°	2517.1	2505.0	2494.6	2479.0	2498.1	2482.5	2499.8	2505.0	2482.5	2465.2	2432.3
32.5°	2605.4	2638.3	2650.4	2612.3	2614.1	2622.7	2607.1	2591.6	2605.4	2610.6	2605.4
35°	2730.0	2761.2	2768.1	2738.7	2723.1	2766.4	2735.2	2787.2	2742.2	2743.9	2697.2
37.5°	2875.5	2884.1	2943.0	2910.1	2896.2	2875.5	2932.6	2925.7	2936.1	2853.0	2894.5
40°	3039.9	3071.1	3104.0	3020.9	3019.1	3038.2	3034.7	3074.5	3055.5	3043.4	3014.0
42.5°	3220.0	3285.7	3290.9	3235.5	3200.9	3197.5	3214.8	3303.1	3304.8	3225.2	3190.5
45°	3458.9	3531.6	3512.5	3405.2	3367.1	3361.9	3446.7	3484.8	3517.7	3486.6	3457.1
47.5°	3756.6	3805.1	3791.2	3692.6	3569.7	3604.3	3687.4	3806.8	3772.2	3730.7	3696.0
50°	4075.2	4132.3	4102.9	4004.2	3886.5	3886.5	3988.6	4140.9	4130.6	4049.2	4018.0
52.5°	4428.3	4511.4	4578.9	4438.7	4340.0	4355.6	4516.6	4572.0	4546.0	4488.9	4462.9
55°	4691.5	4850.7	4989.2	4996.1	5001.3	4999.6	5041.1	5096.5	4911.3	4819.6	4726.1
57.5°	4627.4	4928.6	5403.0	5725.0	5820.2	5870.4	5856.5	5600.3	5162.3	4861.1	4892.3
60°	4170.4	4662.0	5427.2	6460.7	7153.2	7083.9	6831.2	5818.4	5023.8	4514.9	4450.8
62.5°	3327.3	3919.4	5020.4	6668.4	8576.2	8555.4	7232.8	5314.7	4186.0	3542.0	3502.1
64°	2506.7	3129.9	4478.5	6614.8	9074.8	9095.5	7130.7	4694.9	3275.4	2506.7	2446.1
65°	1918.1	2496.3	3947.1	6504.0	8967.4	8979.5	6846.8	4054.4	2489.4	1779.6	1713.9
67.5°	763.4	1062.9	2141.4	4932.1	7700.2	7667.3	4885.3	1961.4	952.1	619.8	607.6
70°	325.5	405.1	751.3	2337.1	5155.4	5060.2	2103.4	637.1	353.2	296.0	294.3
72.5°	223.3	247.6	322.0	721.9	2143.2	2093.0	599.0	296.0	240.6	221.6	221.6
75°	180.0	197.4	233.7	303.0	567.8	547.0	282.2	218.1	192.2	178.3	176.6
77.5°	140.2	157.5	183.5	209.5	259.7	257.9	188.7	164.5	148.9	138.5	135.0
80°	110.8	128.1	145.4	148.9	169.7	166.2	128.1	129.8	121.2	100.4	98.7
82.5°	76.2	103.9	116.0	105.6	100.4	100.4	91.8	91.8	84.8	62.3	57.1
85°	46.7	69.2	72.7	62.3	46.7	46.7	50.2	48.5	45.0	32.9	31.2
87.5°	24.2	32.9	29.4	24.2	15.6	15.6	13.8	10.4	10.4	8.7	8.7
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)