

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: P478782

Luminaire Tested: **IFLD-S-SA3C-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478782  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

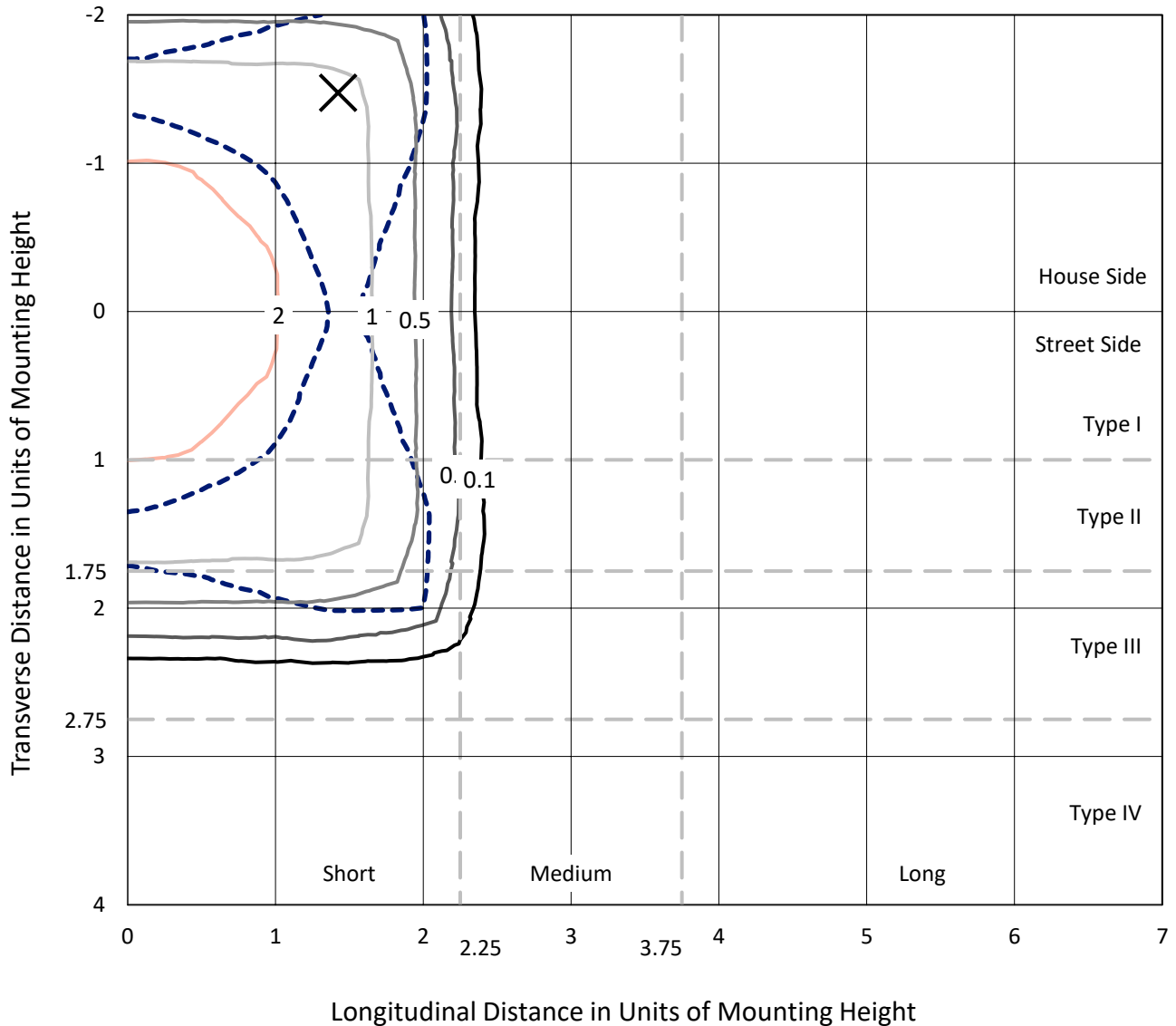
Lumens per Lamp: N/A  
Luminaire Lumens: 15561.7 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

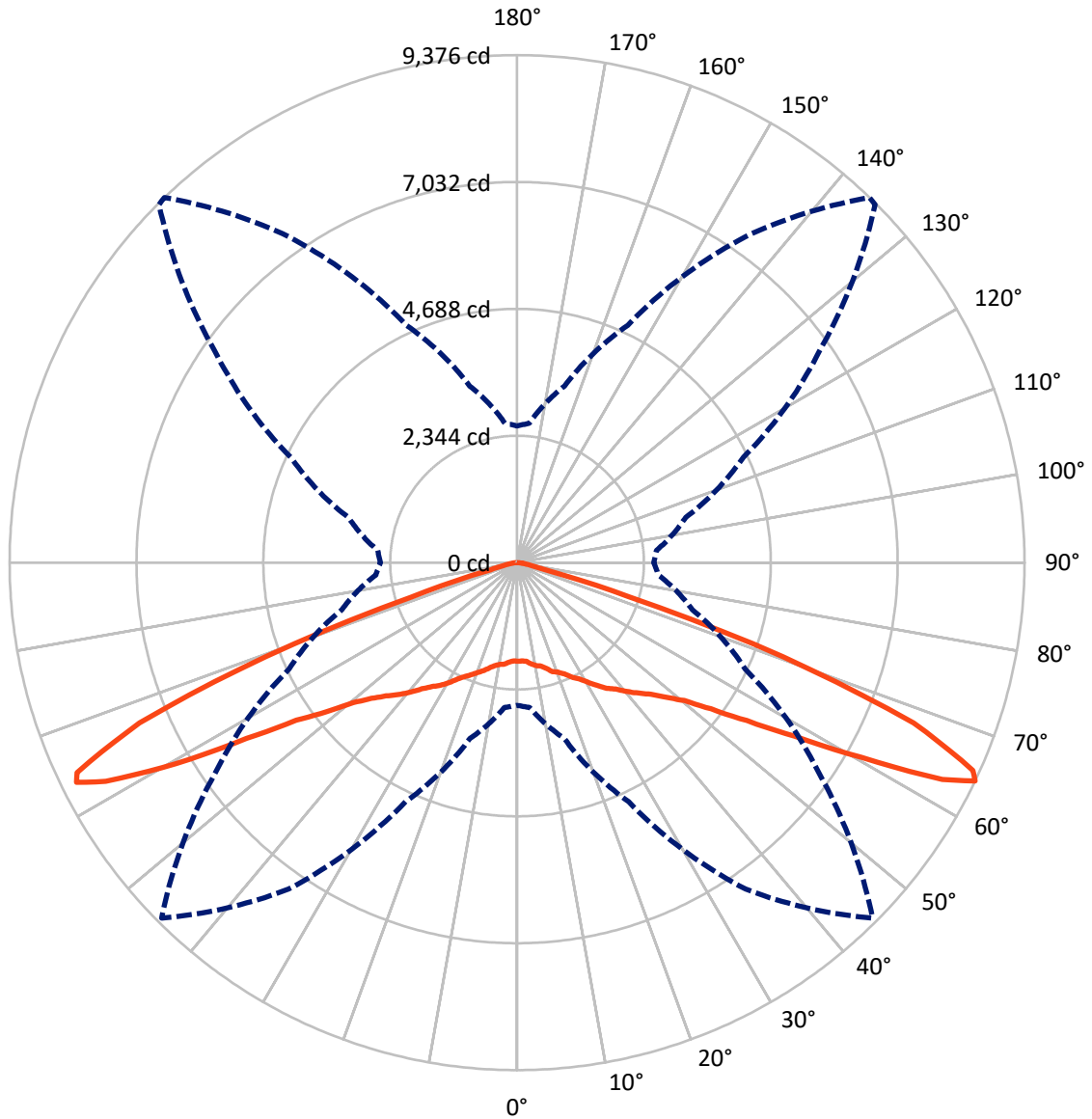
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	7788.2	0.0	7788.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7773.4	0.0	7773.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15561.7	0.0	15561.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	1.2
10°-20°	577.0	3.7
20°-30°	1084.4	7.0
30°-40°	1788.3	11.5
40°-50°	2796.8	18.0
50°-60°	4519.0	29.0
60°-70°	4069.1	26.1
70°-80°	482.0	3.1
80°-90°	66.0	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°	15561.7	100.0
0°-180°	15561.7	100.0

**Coefficient of Utilization**



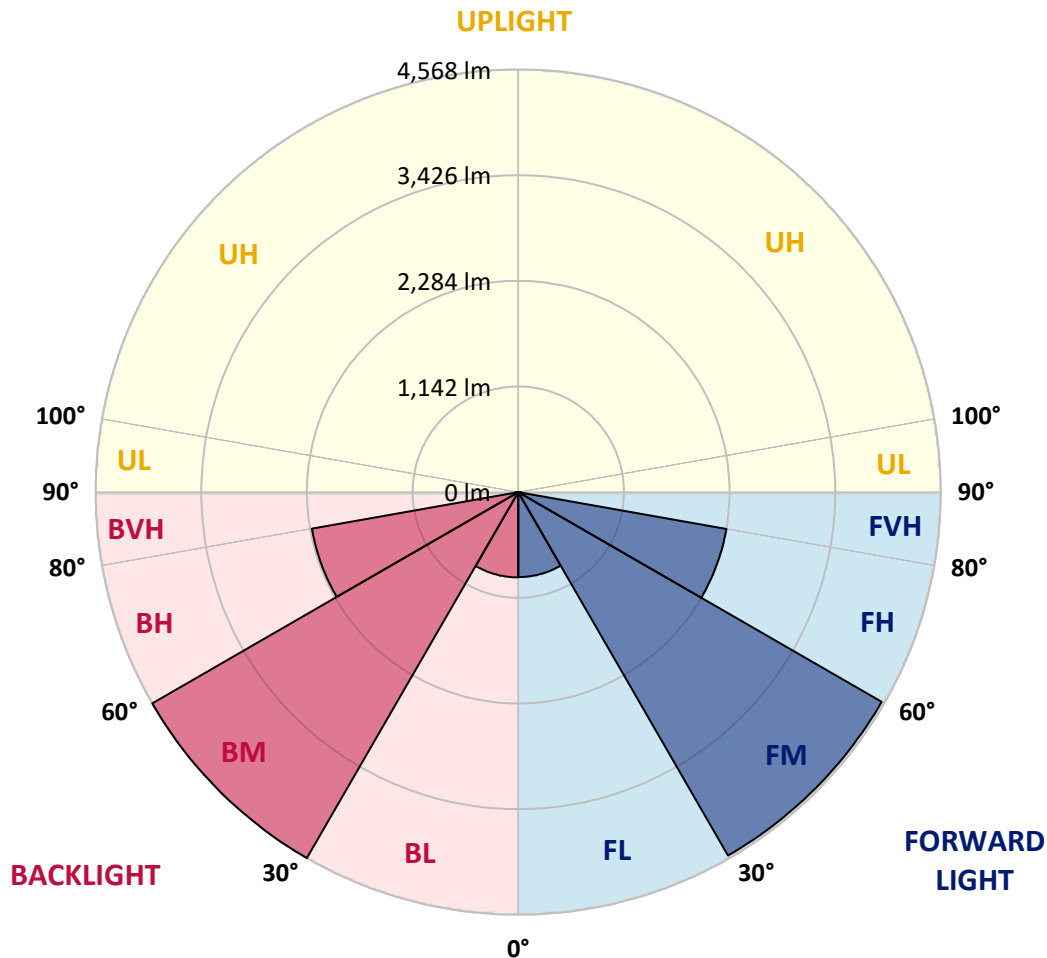
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.4	5.9			
FM (30°-60°)	4535.7	29.1			
FH (60°-80°)	2285.4	14.7			G2/5000
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	922.0	5.9	B2/1000		
BM (30°-60°)	4568.5	29.4	B3/5000		
BH (60°-80°)	2265.7	14.6	B3/2500		G2/5000
BVH (80°-90°)	32.1	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°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1800.5	1804.1	1836.2	1823.7	1834.4	1814.8	1829.1	1859.4	1823.7	1850.5	1859.4
5°	1820.2	1825.5	1825.5	1838.0	1845.1	1841.6	1850.5	1838.0	1871.9	1857.6	1879.1
7.5°	1891.5	1882.6	1868.3	1879.1	1880.8	1889.8	1898.7	1914.7	1909.4	1896.9	1918.3
10°	1904.0	1896.9	1918.3	1920.1	1911.2	1904.0	1913.0	1913.0	1929.0	1932.6	1932.6
12.5°	1925.5	1932.6	1930.8	1945.1	1946.9	1941.5	1955.8	1982.6	1975.4	1980.8	1968.3
15°	2007.5	1998.6	1996.8	2011.1	2034.3	2000.4	2025.4	2023.6	2016.5	2027.2	1998.6
17.5°	2078.9	2050.4	2062.9	2086.1	2077.1	2084.3	2116.4	2087.8	2095.0	2082.5	2073.6
20°	2141.4	2118.2	2120.0	2128.9	2128.9	2150.3	2162.8	2152.1	2144.9	2143.2	2146.7
22.5°	2211.0	2184.2	2186.0	2223.5	2235.9	2228.8	2219.9	2237.7	2241.3	2227.0	2243.1
25°	2262.7	2291.3	2300.2	2318.0	2291.3	2310.9	2303.8	2337.7	2359.1	2330.5	2350.2
27.5°	2398.3	2385.8	2409.0	2407.3	2428.7	2409.0	2421.5	2432.2	2441.2	2442.9	2434.0
30°	2519.7	2525.0	2501.8	2564.3	2514.3	2546.4	2567.9	2573.2	2583.9	2583.9	2557.2
32.5°	2648.2	2637.5	2674.9	2660.7	2651.7	2676.7	2653.5	2726.7	2683.9	2708.8	2678.5
35°	2792.7	2792.7	2807.0	2846.2	2792.7	2776.6	2819.5	2849.8	2849.8	2805.2	2815.9
37.5°	2955.1	2940.8	2958.7	3008.6	2967.6	2914.1	2992.6	3005.1	2996.1	2983.6	2962.2
40°	3069.3	3065.7	3101.4	3167.4	3108.6	3097.9	3112.1	3146.0	3156.7	3169.2	3140.7
42.5°	3262.0	3278.1	3381.6	3365.5	3317.3	3279.9	3276.3	3403.0	3372.7	3340.5	3324.5
45°	3547.5	3533.3	3586.8	3588.6	3526.1	3444.0	3461.9	3577.9	3629.6	3558.2	3585.0
47.5°	3774.2	3781.3	3818.8	3895.5	3751.0	3665.3	3731.3	3918.7	3902.7	3875.9	3900.9
50°	4077.5	4109.7	4227.4	4200.7	4072.2	3966.9	4111.4	4288.1	4307.7	4209.6	4191.7
52.5°	4496.9	4546.8	4611.1	4632.5	4509.4	4471.9	4480.8	4700.3	4652.1	4557.6	4496.9
55°	4864.5	4887.7	5005.5	5182.1	5173.2	4993.0	5096.5	5178.6	4982.3	4787.8	4803.8
57.5°	5021.5	5032.2	5360.6	5713.9	5924.5	5965.5	5847.7	5571.1	5103.6	4728.9	4705.7
60°	4630.7	4732.4	5128.6	5926.2	6888.1	7362.8	6579.4	5615.7	4819.9	4364.8	4330.9
62.5°	3701.0	3706.4	4295.2	5505.1	7487.7	8731.4	6859.5	5196.4	4063.3	3547.5	3411.9
64°	2635.7	2685.6	3362.0	4873.4	7362.8	9288.2	6825.6	4648.6	3349.5	2617.8	2523.3
65°	1891.5	1961.1	2614.3	4231.0	7070.1	9222.2	6723.9	4177.5	2708.8	1998.6	1902.3
67.5°	695.9	724.5	1026.1	2116.4	5076.8	7858.8	5328.4	2296.6	1190.2	847.6	762.0
70°	323.0	324.8	380.1	699.5	2219.9	5255.3	2542.9	861.9	447.9	355.1	330.1
72.5°	237.3	242.7	265.9	323.0	653.1	2225.2	835.1	353.3	262.3	232.0	226.6
75°	192.7	196.3	203.4	233.8	301.6	596.0	339.1	244.5	208.8	187.4	180.2
77.5°	148.1	148.1	164.2	178.4	199.9	278.4	224.8	194.5	169.5	148.1	142.8
80°	107.1	108.9	128.5	139.2	135.6	183.8	162.4	160.6	139.2	116.0	107.1
82.5°	62.5	67.8	92.8	99.9	96.4	108.9	117.8	124.9	108.9	80.3	73.2
85°	35.7	37.5	53.5	55.3	55.3	51.7	67.8	74.9	73.2	50.0	44.6
87.5°	10.7	10.7	14.3	14.3	16.1	17.8	26.8	32.1	35.7	25.0	23.2
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0	1822.0
2.5°	1850.5	1823.7	1825.5	1832.7	1809.5	1818.4	1845.1	1825.5	1820.2	1809.5	1804.1
5°	1841.6	1870.1	1859.4	1863.0	1857.6	1832.7	1829.1	1845.1	1854.1	1838.0	1870.1
7.5°	1904.0	1891.5	1877.3	1882.6	1870.1	1891.5	1905.8	1873.7	1889.8	1880.8	1863.0
10°	1939.7	1916.5	1927.2	1923.7	1914.7	1936.2	1921.9	1918.3	1904.0	1884.4	1913.0
12.5°	1952.2	1979.0	1996.8	1966.5	1971.8	1961.1	1952.2	1952.2	1936.2	1930.8	1936.2
15°	2007.5	2030.7	2023.6	2046.8	2016.5	2027.2	2037.9	2011.1	2025.4	1986.1	2016.5
17.5°	2109.3	2089.6	2114.6	2084.3	2095.0	2116.4	2082.5	2082.5	2093.2	2071.8	2045.0
20°	2173.5	2164.6	2155.6	2157.4	2139.6	2159.2	2148.5	2143.2	2127.1	2134.2	2148.5
22.5°	2234.2	2221.7	2225.2	2230.6	2243.1	2234.2	2228.8	2234.2	2194.9	2230.6	2180.6
25°	2309.1	2343.0	2332.3	2355.5	2319.8	2343.0	2341.2	2307.3	2328.7	2314.5	2303.8
27.5°	2434.0	2416.2	2432.2	2403.7	2428.7	2430.5	2409.0	2466.1	2441.2	2437.6	2430.5
30°	2594.6	2582.1	2571.4	2555.4	2575.0	2558.9	2576.8	2582.1	2558.9	2541.1	2507.2
32.5°	2685.6	2719.5	2732.0	2692.8	2694.6	2703.5	2687.4	2671.4	2685.6	2691.0	2685.6
35°	2814.1	2846.2	2853.4	2823.0	2807.0	2851.6	2819.5	2873.0	2826.6	2828.4	2780.2
37.5°	2964.0	2972.9	3033.6	2999.7	2985.4	2964.0	3022.9	3015.8	3026.5	2940.8	2983.6
40°	3133.5	3165.7	3199.6	3113.9	3112.1	3131.8	3128.2	3169.2	3149.6	3137.1	3106.8
42.5°	3319.1	3386.9	3392.3	3335.2	3299.5	3295.9	3313.8	3404.8	3406.6	3324.5	3288.8
45°	3565.4	3640.3	3620.7	3510.1	3470.8	3465.5	3552.9	3592.2	3626.1	3593.9	3563.6
47.5°	3872.3	3922.3	3908.0	3806.3	3679.6	3715.3	3800.9	3924.1	3888.4	3845.5	3809.9
50°	4200.7	4259.5	4229.2	4127.5	4006.2	4006.2	4111.4	4268.5	4257.8	4173.9	4141.8
52.5°	4564.7	4650.3	4719.9	4575.4	4473.7	4489.7	4655.7	4712.8	4686.0	4627.1	4600.4
55°	4835.9	5000.1	5142.9	5150.0	5155.4	5153.6	5196.4	5253.5	5062.6	4968.0	4871.6
57.5°	4769.9	5080.4	5569.4	5901.3	5999.4	6051.2	6036.9	5772.8	5321.3	5010.8	5042.9
60°	4298.8	4805.6	5594.3	6659.7	7373.5	7302.1	7041.5	5997.6	5178.6	4653.9	4587.9
62.5°	3429.8	4040.1	5175.0	6873.8	8840.3	8818.9	7455.5	5478.3	4314.9	3651.0	3610.0
64°	2583.9	3226.3	4616.4	6818.5	9354.2	9375.6	7350.3	4839.5	3376.2	2583.9	2521.5
65°	1977.2	2573.2	4068.6	6704.3	9243.6	9256.1	7057.6	4179.2	2566.1	1834.4	1766.6
67.5°	787.0	1095.7	2207.4	5084.0	7937.4	7903.4	5035.8	2021.8	981.5	638.8	626.4
70°	335.5	417.6	774.5	2409.0	5314.2	5216.0	2168.1	656.7	364.0	305.1	303.4
72.5°	230.2	255.2	331.9	744.1	2209.2	2157.4	617.4	305.1	248.0	228.4	228.4
75°	185.6	203.4	240.9	312.3	585.3	563.9	290.9	224.8	198.1	183.8	182.0
77.5°	144.5	162.4	189.2	215.9	267.7	265.9	194.5	169.5	153.5	142.8	139.2
80°	114.2	132.1	149.9	153.5	174.9	171.3	132.1	133.8	124.9	103.5	101.7
82.5°	78.5	107.1	119.6	108.9	103.5	103.5	94.6	94.6	87.4	64.2	58.9
85°	48.2	71.4	74.9	64.2	48.2	48.2	51.7	50.0	46.4	33.9	32.1
87.5°	25.0	33.9	30.3	25.0	16.1	16.1	14.3	10.7	10.7	8.9	8.9
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)