

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: P478934

Luminaire Tested: **IFLD-S-SA2D-740-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478934  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

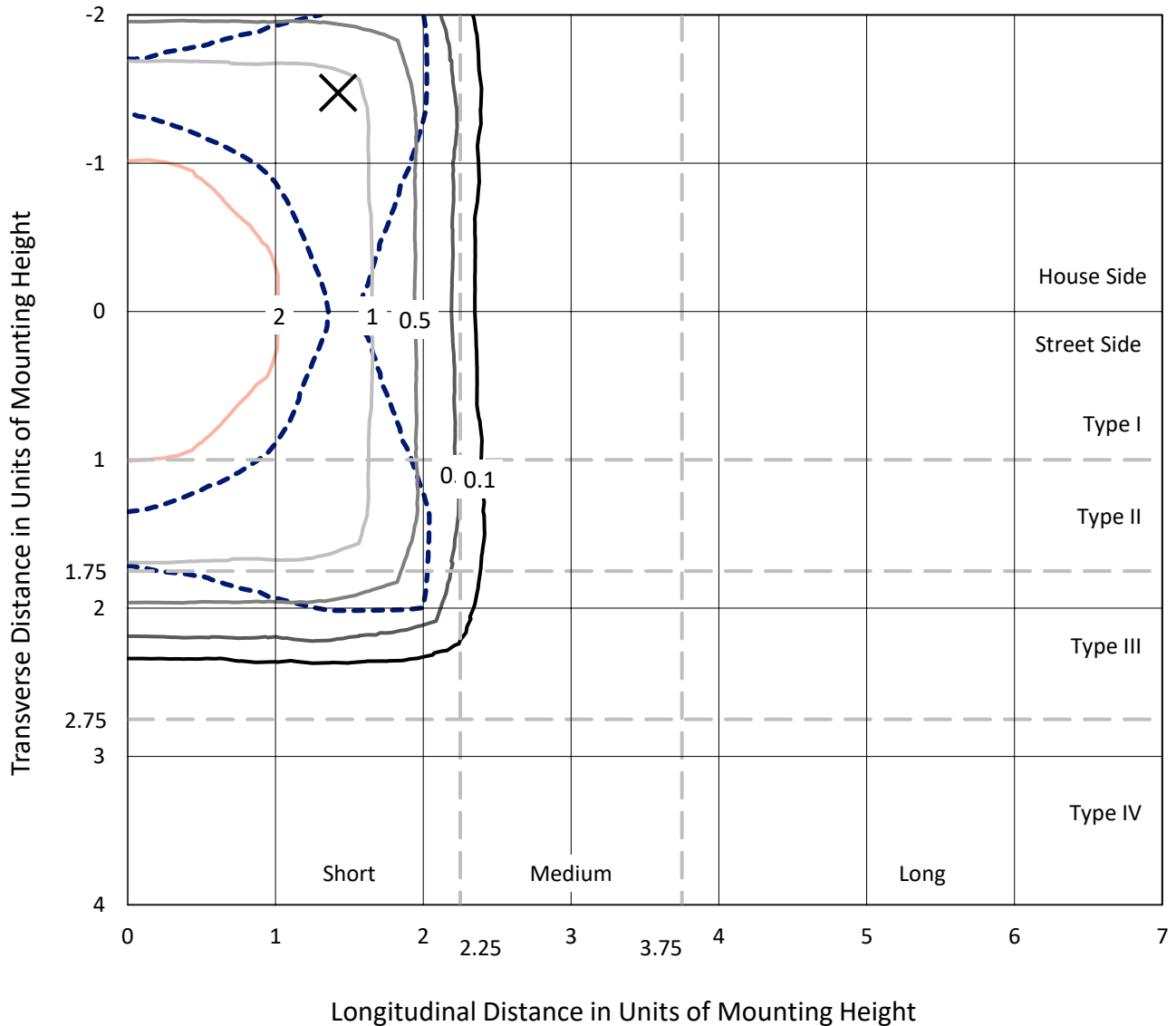
Lumens per Lamp: N/A  
Luminaire Lumens: 15598.4 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 123.9  
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

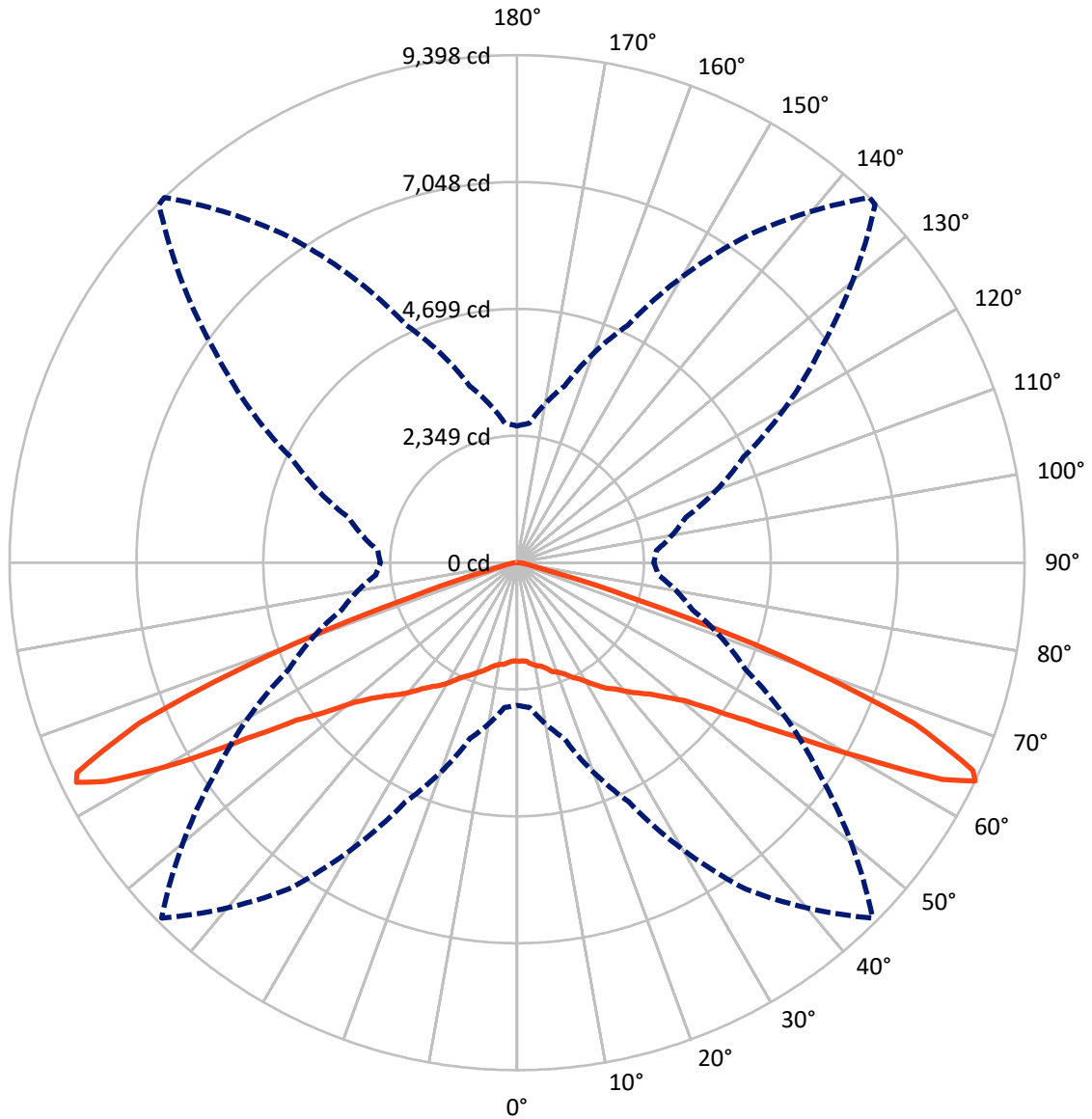
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

REPORT NUMBER: P478934  
CATALOG NUMBER: IFLD-S-SA2D-740-U-5NQ

### Luminous Intensity Polar Plot



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

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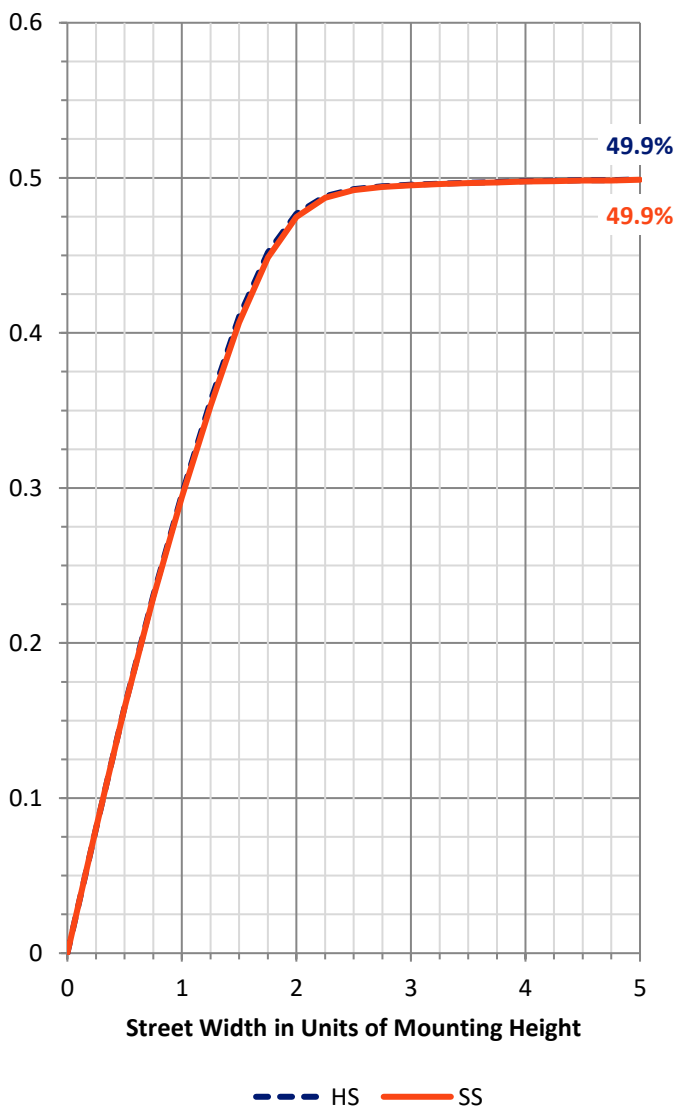
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7806.7	0.0	7806.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7791.8	0.0	7791.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15598.4	0.0	15598.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	1.2
10°-20°	578.3	3.7
20°-30°	1086.9	7.0
30°-40°	1792.6	11.5
40°-50°	2803.5	18.0
50°-60°	4529.7	29.0
60°-70°	4078.7	26.1
70°-80°	483.1	3.1
80°-90°	66.1	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°	15598.4	100.0
0°-180°	15598.4	100.0

**Coefficient of Utilization**



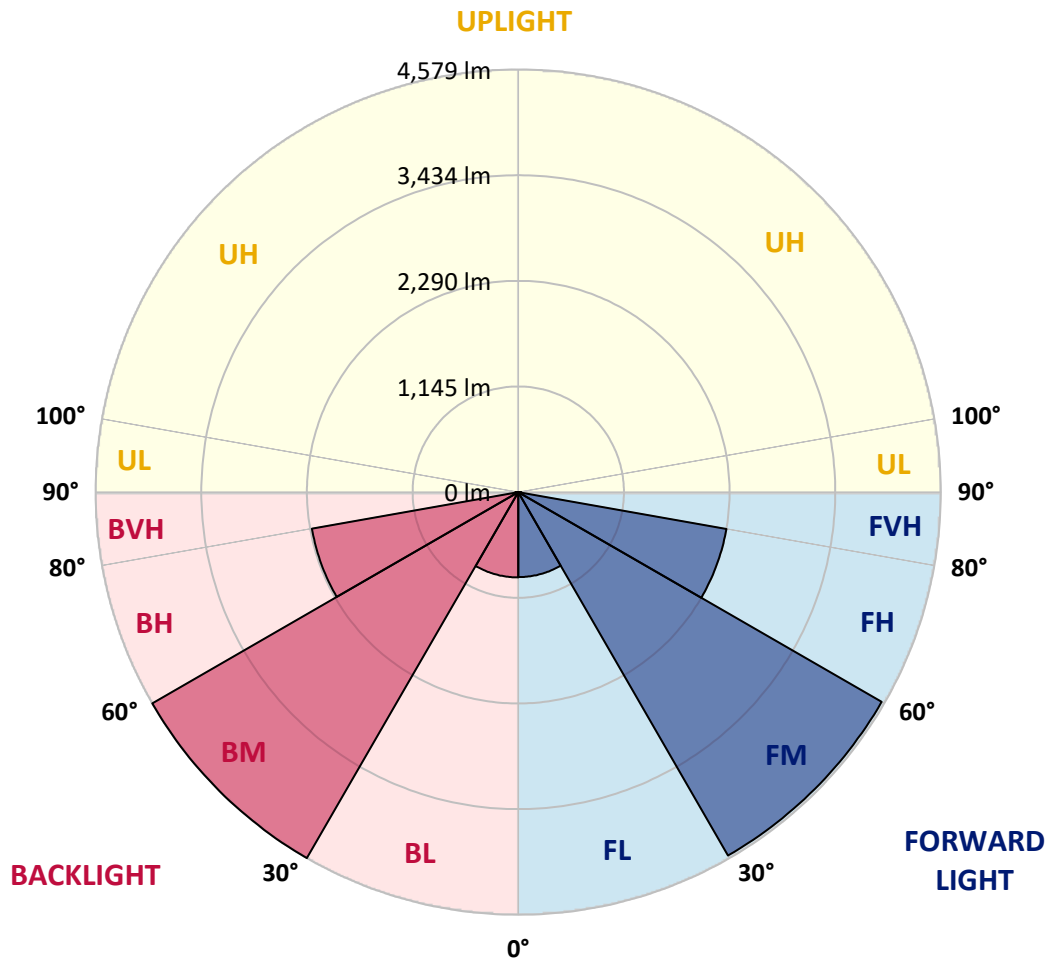
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 CATALOG NUMBER: IFLD-S-SA2D-740-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.6	5.9			
FM (30°-60°)	4546.5	29.1			
FH (60°-80°)	2290.8	14.7			G2/5000
FVH (80°-90°)	33.9	0.2			G1/100
BL (0°-30°)	924.1	5.9	B2/1000		
BM (30°-60°)	4579.3	29.4	B3/5000		
BH (60°-80°)	2271.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	32.2	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°	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3
2.5°	1804.8	1808.4	1840.6	1828.0	1838.8	1819.1	1833.4	1863.8	1828.0	1854.9	1863.8
5°	1824.5	1829.8	1829.8	1842.4	1849.5	1845.9	1854.9	1842.4	1876.3	1862.0	1883.5
7.5°	1896.0	1887.1	1872.8	1883.5	1885.3	1894.2	1903.2	1919.3	1913.9	1901.4	1922.8
10°	1908.5	1901.4	1922.8	1924.6	1915.7	1908.5	1917.5	1917.5	1933.6	1937.2	1937.2
12.5°	1930.0	1937.2	1935.4	1949.7	1951.5	1946.1	1960.4	1987.2	1980.1	1985.5	1972.9
15°	2012.3	2003.3	2001.5	2015.9	2039.1	2005.1	2030.2	2028.4	2021.2	2032.0	2003.3
17.5°	2083.8	2055.2	2067.7	2091.0	2082.0	2089.2	2121.4	2092.8	2099.9	2087.4	2078.5
20°	2146.4	2123.2	2125.0	2133.9	2133.9	2155.4	2167.9	2157.2	2150.0	2148.2	2151.8
22.5°	2216.2	2189.4	2191.2	2228.7	2241.2	2234.1	2225.1	2243.0	2246.6	2232.3	2248.4
25°	2268.1	2296.7	2305.6	2323.5	2296.7	2316.4	2309.2	2343.2	2364.7	2336.0	2355.7
27.5°	2404.0	2391.5	2414.7	2412.9	2434.4	2414.7	2427.3	2438.0	2446.9	2448.7	2439.8
30°	2525.6	2531.0	2507.7	2570.4	2520.3	2552.5	2573.9	2579.3	2590.0	2590.0	2563.2
32.5°	2654.4	2643.7	2681.3	2666.9	2658.0	2683.0	2659.8	2733.1	2690.2	2715.2	2684.8
35°	2799.3	2799.3	2813.6	2853.0	2799.3	2783.2	2826.1	2856.5	2856.5	2811.8	2822.6
37.5°	2962.1	2947.8	2965.7	3015.7	2974.6	2920.9	2999.6	3012.2	3003.2	2990.7	2969.2
40°	3076.6	3073.0	3108.8	3174.9	3115.9	3105.2	3119.5	3153.5	3164.2	3176.7	3148.1
42.5°	3269.7	3285.8	3389.6	3373.5	3325.2	3287.6	3284.0	3411.0	3380.6	3348.4	3332.3
45°	3555.9	3541.6	3595.3	3597.1	3534.5	3452.2	3470.1	3586.3	3638.2	3566.7	3593.5
47.5°	3783.1	3790.2	3827.8	3904.7	3759.8	3674.0	3740.2	3928.0	3911.9	3885.0	3910.1
50°	4087.2	4119.4	4237.4	4210.6	4081.8	3976.3	4121.2	4298.2	4317.9	4219.5	4201.6
52.5°	4507.5	4557.6	4622.0	4643.5	4520.0	4482.5	4491.4	4711.4	4663.1	4568.3	4507.5
55°	4876.0	4899.2	5017.3	5194.4	5185.4	5004.8	5108.5	5190.8	4994.0	4799.1	4815.2
57.5°	5033.4	5044.1	5373.2	5727.4	5938.5	5979.6	5861.6	5584.3	5115.7	4740.0	4716.8
60°	4641.7	4743.6	5140.7	5940.3	6904.4	7380.2	6594.9	5629.0	4831.3	4375.1	4341.2
62.5°	3709.8	3715.1	4305.4	5518.1	7505.4	8752.1	6875.7	5208.7	4072.9	3555.9	3420.0
64°	2641.9	2692.0	3369.9	4884.9	7380.2	9310.2	6841.8	4659.5	3357.4	2624.0	2529.2
65°	1896.0	1965.8	2620.4	4241.0	7086.8	9244.0	6739.8	4187.3	2715.2	2003.3	1906.7
67.5°	697.6	726.2	1028.5	2121.4	5088.8	7877.4	5341.0	2302.0	1193.1	849.6	763.8
70°	323.8	325.5	381.0	701.2	2225.1	5267.7	2548.9	863.9	449.0	356.0	330.9
72.5°	237.9	243.3	266.5	323.8	654.7	2230.5	837.1	354.2	262.9	232.5	227.2
75°	193.2	196.8	203.9	234.3	302.3	597.4	339.9	245.1	209.3	187.8	180.7
77.5°	148.5	148.5	164.6	178.9	200.3	279.0	225.4	195.0	169.9	148.5	143.1
80°	107.3	109.1	128.8	139.5	135.9	184.2	162.8	161.0	139.5	116.3	107.3
82.5°	62.6	68.0	93.0	100.2	96.6	109.1	118.1	125.2	109.1	80.5	73.3
85°	35.8	37.6	53.7	55.4	55.4	51.9	68.0	75.1	73.3	50.1	44.7
87.5°	10.7	10.7	14.3	14.3	16.1	17.9	26.8	32.2	35.8	25.0	23.3
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°	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3
2.5°	1854.9	1828.0	1829.8	1837.0	1813.7	1822.7	1849.5	1829.8	1824.5	1813.7	1808.4
5°	1845.9	1874.6	1863.8	1867.4	1862.0	1837.0	1833.4	1849.5	1858.5	1842.4	1874.6
7.5°	1908.5	1896.0	1881.7	1887.1	1874.6	1896.0	1910.3	1878.1	1894.2	1885.3	1867.4
10°	1944.3	1921.1	1931.8	1928.2	1919.3	1940.7	1926.4	1922.8	1908.5	1888.9	1917.5
12.5°	1956.8	1983.7	2001.5	1971.1	1976.5	1965.8	1956.8	1956.8	1940.7	1935.4	1940.7
15°	2012.3	2035.5	2028.4	2051.6	2021.2	2032.0	2042.7	2015.9	2030.2	1990.8	2021.2
17.5°	2114.2	2094.6	2119.6	2089.2	2099.9	2121.4	2087.4	2087.4	2098.1	2076.7	2049.8
20°	2178.6	2169.7	2160.7	2162.5	2144.6	2164.3	2153.6	2148.2	2132.1	2139.3	2153.6
22.5°	2239.4	2226.9	2230.5	2235.9	2248.4	2239.4	2234.1	2239.4	2200.1	2235.9	2185.8
25°	2314.6	2348.6	2337.8	2361.1	2325.3	2348.6	2346.8	2312.8	2334.2	2319.9	2309.2
27.5°	2439.8	2421.9	2438.0	2409.4	2434.4	2436.2	2414.7	2472.0	2446.9	2443.4	2436.2
30°	2600.8	2588.2	2577.5	2561.4	2581.1	2565.0	2582.9	2588.2	2565.0	2547.1	2513.1
32.5°	2692.0	2726.0	2738.5	2699.1	2700.9	2709.9	2693.8	2677.7	2692.0	2697.4	2692.0
35°	2820.8	2853.0	2860.1	2829.7	2813.6	2858.3	2826.1	2879.8	2833.3	2835.1	2786.8
37.5°	2971.0	2980.0	3040.8	3006.8	2992.5	2971.0	3030.0	3022.9	3033.6	2947.8	2990.7
40°	3140.9	3173.1	3207.1	3121.3	3119.5	3139.2	3135.6	3176.7	3157.0	3144.5	3114.1
42.5°	3327.0	3394.9	3400.3	3343.1	3307.3	3303.7	3321.6	3412.8	3414.6	3332.3	3296.6
45°	3573.8	3648.9	3629.3	3518.4	3479.0	3473.6	3561.3	3600.6	3634.6	3602.4	3572.0
47.5°	3881.5	3931.6	3917.2	3815.3	3688.3	3724.1	3809.9	3933.3	3897.6	3854.6	3818.9
50°	4210.6	4269.6	4239.2	4137.3	4015.6	4015.6	4121.2	4278.6	4267.8	4183.8	4151.6
52.5°	4575.5	4661.3	4731.1	4586.2	4484.3	4500.4	4666.7	4723.9	4697.1	4638.1	4611.3
55°	4847.4	5011.9	5155.0	5162.2	5167.5	5165.8	5208.7	5265.9	5074.5	4979.7	4883.1
57.5°	4781.2	5092.4	5582.5	5915.2	6013.6	6065.5	6051.2	5786.4	5333.9	5022.7	5054.9
60°	4309.0	4817.0	5607.6	6675.4	7390.9	7319.3	7058.2	6011.8	5190.8	4664.9	4598.7
62.5°	3437.9	4049.6	5187.2	6890.1	8861.2	8839.7	7473.2	5491.3	4325.1	3659.7	3618.5
64°	2590.0	3234.0	4627.4	6834.6	9376.3	9397.8	7367.6	4850.9	3384.2	2590.0	2527.4
65°	1981.9	2579.3	4078.2	6720.1	9265.4	9278.0	7074.3	4189.1	2572.1	1838.8	1770.8
67.5°	788.8	1098.3	2212.6	5096.0	7956.1	7922.1	5047.7	2026.6	983.8	640.4	627.8
70°	336.3	418.6	776.3	2414.7	5326.7	5228.4	2173.3	658.2	364.9	305.9	304.1
72.5°	230.7	255.8	332.7	745.9	2214.4	2162.5	618.9	305.9	248.6	229.0	229.0
75°	186.0	203.9	241.5	313.0	586.7	565.2	291.6	225.4	198.5	184.2	182.4
77.5°	144.9	162.8	189.6	216.4	268.3	266.5	195.0	169.9	153.8	143.1	139.5
80°	114.5	132.4	150.3	153.8	175.3	171.7	132.4	134.2	125.2	103.7	102.0
82.5°	78.7	107.3	119.8	109.1	103.7	103.7	94.8	94.8	87.6	64.4	59.0
85°	48.3	71.5	75.1	64.4	48.3	48.3	51.9	50.1	46.5	34.0	32.2
87.5°	25.0	34.0	30.4	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)