

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: P478506

Luminaire Tested: **IFLD-S-SA2E-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478506  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

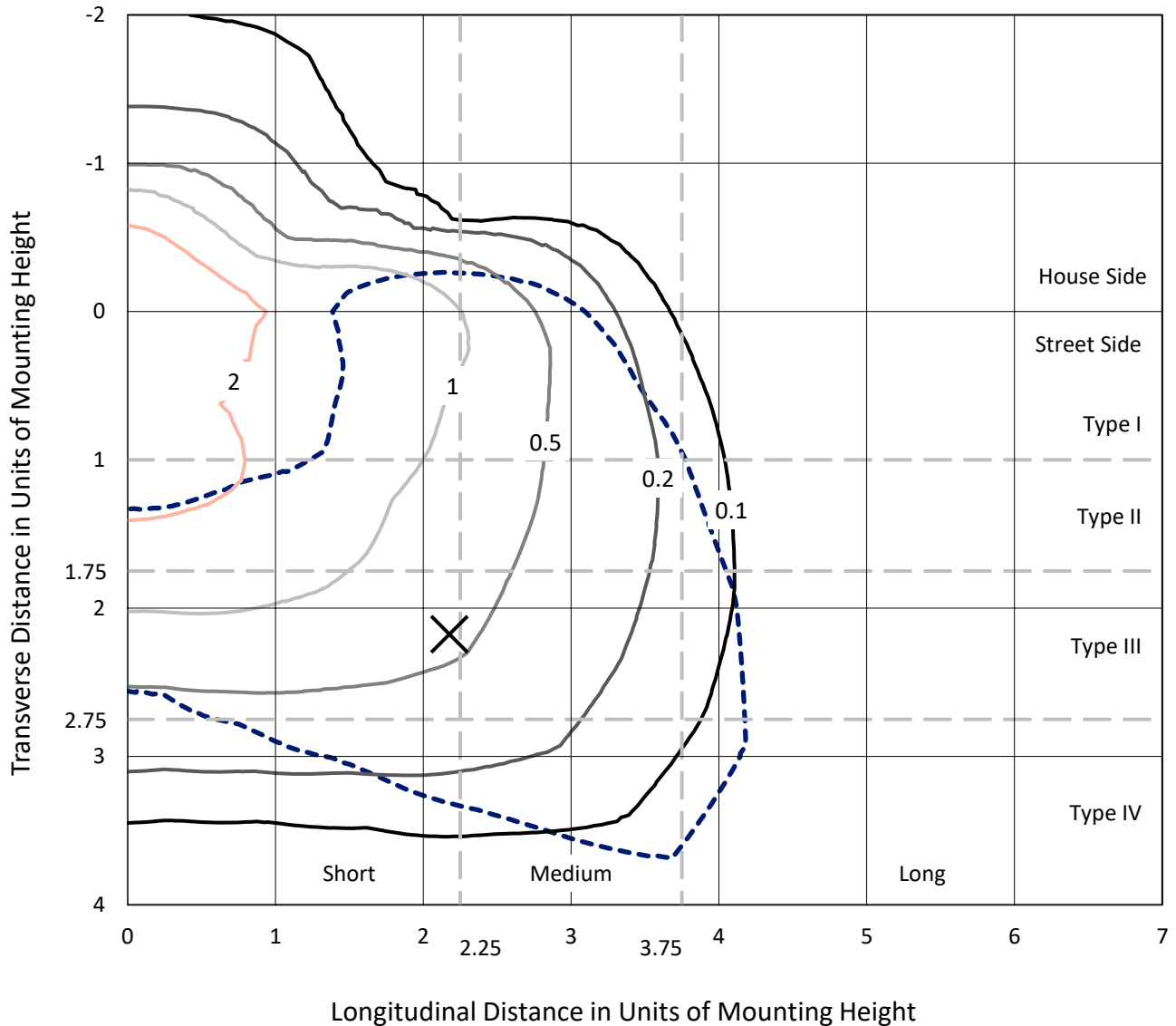
Lumens per Lamp: N/A  
Luminaire Lumens: 18043.8 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

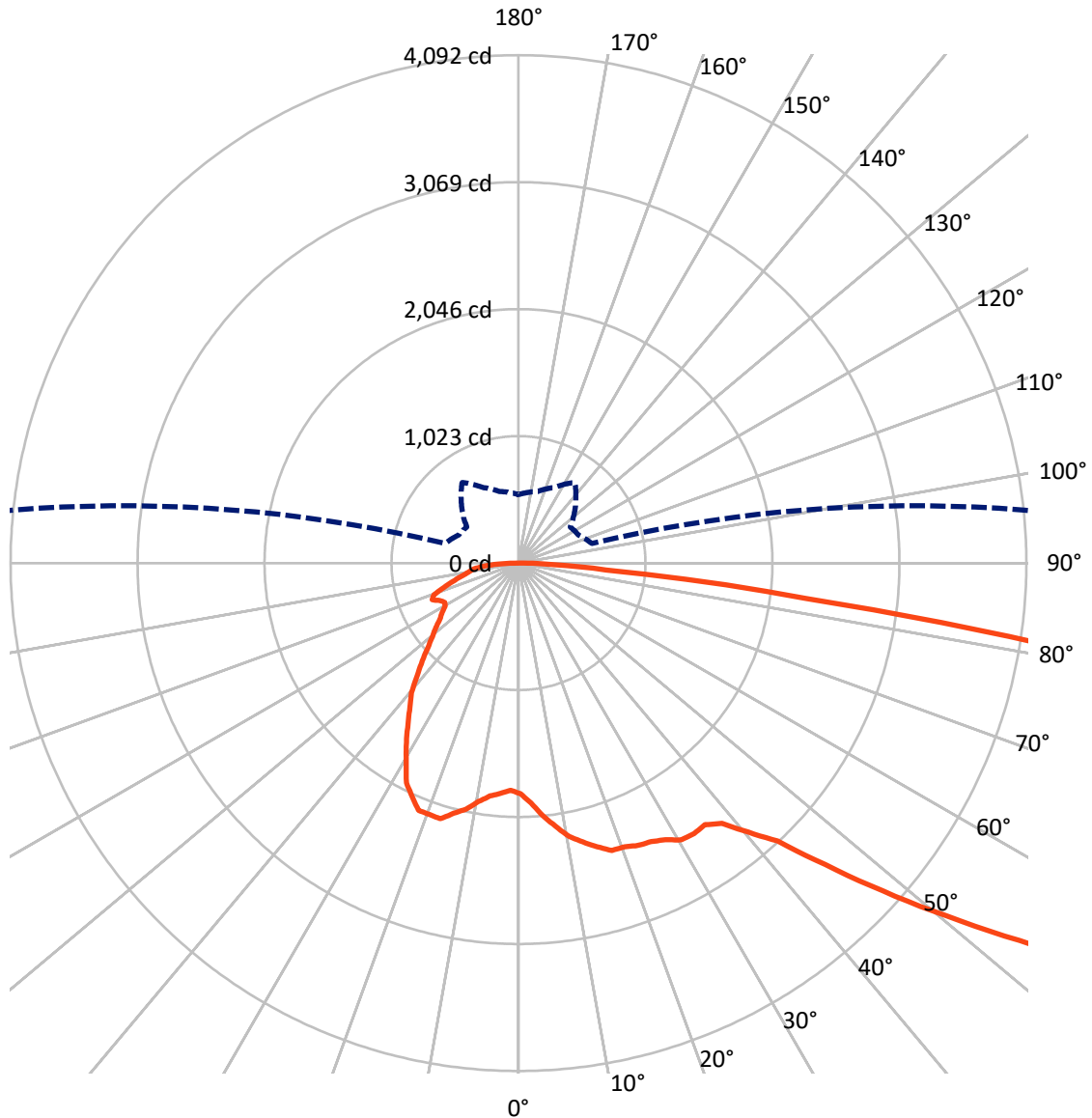
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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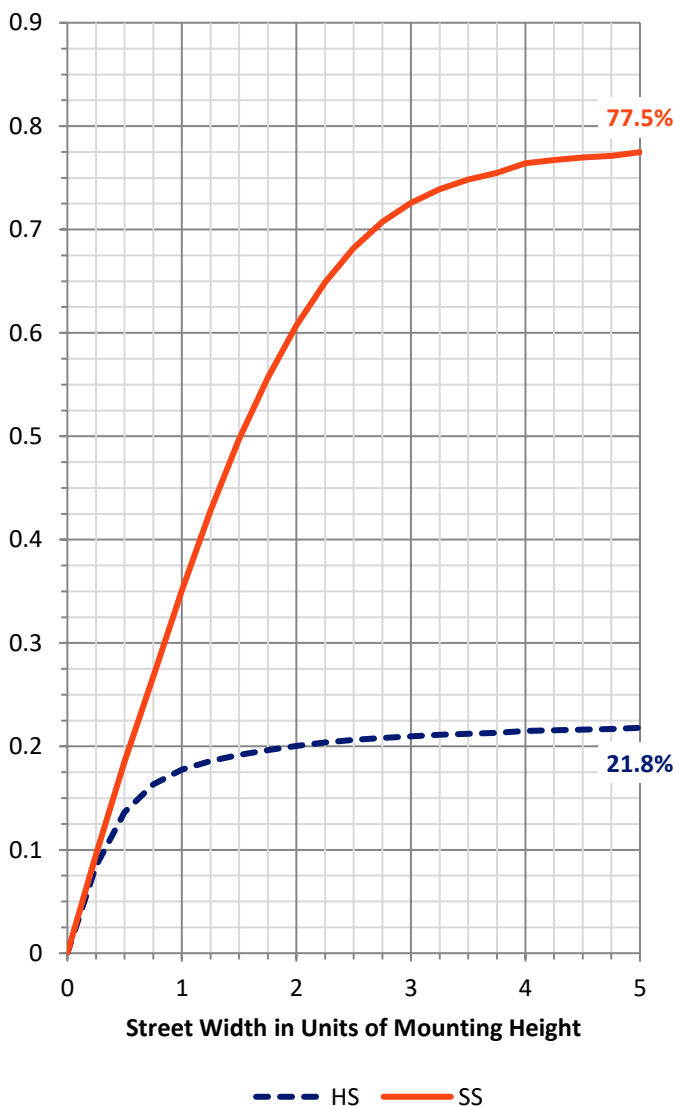
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4016.7	0.0	4016.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	14027.2	0.0	14027.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	18043.8	0.0	18043.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	1.1
10°-20°	632.6	3.5
20°-30°	1068.3	5.9
30°-40°	1478.4	8.2
40°-50°	2114.7	11.7
50°-60°	3410.8	18.9
60°-70°	5030.4	27.9
70°-80°	3652.9	20.2
80°-90°	465.6	2.6
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°	18043.8	100.0
0°-180°	18043.8	100.0

**Coefficient of Utilization**



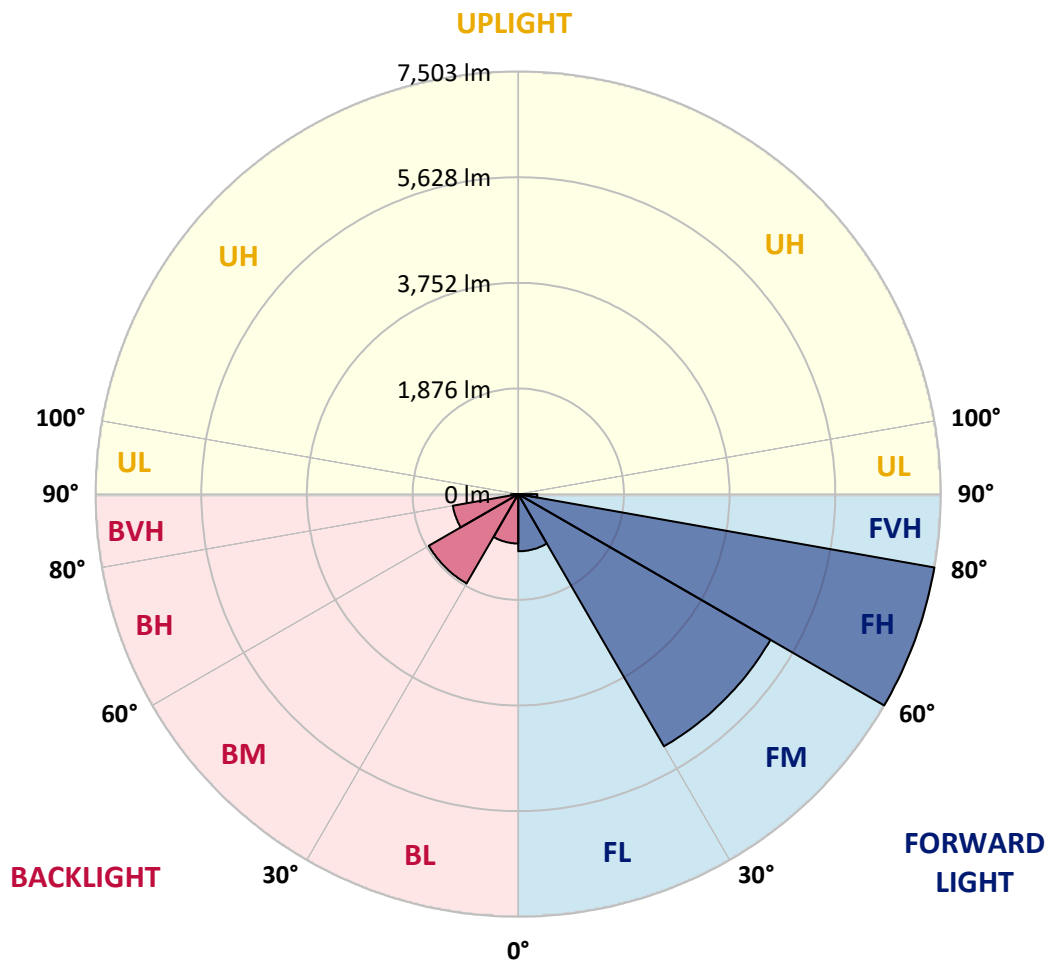
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.1	5.6			
FM (30°-60°)	5170.7	28.7			
FH (60°-80°)	7503.4	41.6			G4/12000
FVH (80°-90°)	338.9	1.9			G3/500
BL (0°-30°)	877.0	4.9	B2/1000		
BM (30°-60°)	1833.1	10.2	B2/2500		
BH (60°-80°)	1179.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1957.4	1969.1	1957.4	1955.5	1936.0	1922.4	1934.1	1916.6	1897.1	1889.3	1871.8
5°	2136.4	2138.4	2117.0	2118.9	2078.1	2035.3	2043.0	1990.5	1934.1	1912.7	1877.6
7.5°	2319.3	2297.9	2266.8	2257.1	2192.9	2146.2	2140.3	2093.6	2006.1	1957.4	1908.8
10°	2438.0	2445.8	2395.2	2352.4	2297.9	2241.5	2239.6	2152.0	2101.4	2029.4	1967.2
12.5°	2543.1	2545.0	2502.2	2434.1	2366.0	2296.0	2305.7	2266.8	2181.2	2113.1	2050.8
15°	2624.8	2613.1	2566.4	2504.2	2432.2	2377.7	2371.9	2338.8	2266.8	2210.4	2107.2
17.5°	2648.2	2642.3	2595.6	2529.5	2459.4	2418.6	2434.1	2379.6	2350.5	2299.9	2200.6
20°	2603.4	2589.8	2582.0	2508.1	2457.5	2453.6	2440.0	2451.6	2403.0	2356.3	2284.3
22.5°	2521.7	2515.9	2512.0	2453.6	2430.2	2447.8	2471.1	2488.6	2480.8	2436.1	2354.4
25°	2438.0	2465.3	2440.0	2412.7	2445.8	2490.6	2484.7	2541.1	2541.1	2527.5	2459.4
27.5°	2496.4	2478.9	2459.4	2445.8	2457.5	2527.5	2523.6	2591.7	2617.0	2591.7	2513.9
30°	2642.3	2624.8	2568.4	2508.1	2492.5	2568.4	2587.8	2648.2	2659.8	2597.6	2531.4
32.5°	2916.7	2906.9	2817.4	2640.4	2545.0	2587.8	2597.6	2665.7	2655.9	2617.0	2589.8
35°	3323.3	3290.3	3165.7	2866.1	2655.9	2613.1	2587.8	2642.3	2679.3	2659.8	2634.5
37.5°	3768.9	3731.9	3578.2	3198.8	2856.4	2681.2	2661.8	2706.5	2749.3	2739.6	2687.1
40°	4195.0	4195.0	4056.9	3615.2	3154.1	2846.6	2850.5	2799.9	2838.8	2821.3	2831.1
42.5°	4615.3	4599.7	4543.3	4103.6	3473.2	3122.9	3060.7	2934.2	3004.2	2998.4	3012.0
45°	5041.4	5029.8	5014.2	4558.9	3930.4	3496.5	3463.4	3235.8	3300.0	3272.7	3331.1
47.5°	5381.9	5395.6	5395.6	5066.7	4418.8	3994.6	3946.0	3586.0	3708.6	3722.2	3735.8
50°	5671.9	5677.7	5671.9	5551.2	4963.6	4564.7	4465.5	4099.7	4222.3	4329.3	4453.8
52.5°	6072.7	6080.5	6053.2	6006.5	5703.0	5164.0	5053.1	4646.4	4897.4	5010.3	5234.1
55°	6566.9	6508.5	6457.9	6493.0	6413.2	5823.6	5708.8	5210.7	5588.2	5738.0	6185.5
57.5°	6658.3	6708.9	6837.4	7115.6	7230.4	6465.7	6399.6	5903.4	6368.4	6498.8	7246.0
60°	6981.3	6897.7	7212.9	7816.1	7944.5	7302.4	7234.3	6662.2	7144.8	7281.0	8224.7
62.5°	7193.4	7189.5	7656.5	8372.6	8664.4	8170.2	8032.0	7648.7	7983.4	8115.7	9290.9
65°	7131.2	7187.6	8016.5	8699.4	9265.6	9156.7	9076.9	8497.1	8938.8	8927.1	9985.6
67.5°	6563.0	6722.6	7788.8	8934.9	10160.7	10359.2	10333.9	9689.8	9715.1	9468.0	10294.9
70°	5775.0	5720.5	6825.7	8689.7	10608.2	11785.4	11779.6	10577.1	10413.6	9586.7	9407.7
72°	4436.3	4376.0	5284.6	7461.9	10372.8	12355.5	12530.6	11191.9	10405.9	9094.4	7771.3
72.5°	4027.7	3975.2	4879.9	7024.1	10112.0	12503.4	12421.7	11215.3	10324.1	8862.9	7259.6
75°	1854.3	1794.0	2438.0	4300.1	7888.1	11079.1	11357.3	10495.4	9016.6	7055.3	4348.7
77.5°	552.6	535.1	784.1	1735.6	4584.2	8162.4	8269.4	7919.2	6294.5	3864.3	1613.0
80°	307.4	309.4	404.7	649.9	2015.8	4718.4	5103.7	4891.6	3087.9	1276.4	537.0
82.5°	171.2	181.0	252.9	385.3	926.2	2165.6	2331.0	2247.3	1116.9	599.3	293.8
85°	89.5	93.4	132.3	206.2	525.4	684.9	704.4	754.9	579.8	408.6	157.6
87.5°	35.0	35.0	48.6	85.6	194.6	212.1	190.7	231.5	332.7	264.6	77.8
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°	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2	1858.2
2.5°	1887.4	1871.8	1869.9	1844.6	1852.4	1830.9	1832.9	1829.0	1830.9	1827.1	1817.3
5°	1877.6	1866.0	1832.9	1854.3	1834.8	1862.1	1883.5	1875.7	1881.5	1879.6	1881.5
7.5°	1891.3	1875.7	1871.8	1860.1	1877.6	1889.3	1906.8	1955.5	1951.6	1957.4	1969.1
10°	1932.1	1914.6	1902.9	1920.5	1910.7	1947.7	1967.2	1992.4	2037.2	2039.1	2015.8
12.5°	2011.9	2000.2	1976.9	1980.8	2013.8	2025.5	2037.2	2052.8	2081.9	2076.1	2097.5
15°	2103.4	2078.1	2064.4	2060.5	2068.3	2081.9	2080.0	2095.6	2111.1	2124.8	2118.9
17.5°	2169.5	2136.4	2140.3	2159.8	2157.8	2153.9	2128.6	2120.9	2128.6	2136.4	2132.5
20°	2237.6	2241.5	2212.3	2194.8	2187.0	2148.1	2128.6	2105.3	2081.9	2093.6	2111.1
22.5°	2323.2	2305.7	2262.9	2210.4	2171.5	2148.1	2087.8	2046.9	2046.9	2058.6	2052.8
25°	2420.5	2383.5	2309.6	2214.3	2165.6	2066.4	2023.6	2017.7	2002.2	2019.7	2027.5
27.5°	2496.4	2463.3	2362.1	2200.6	2066.4	1986.6	1961.3	1953.5	1978.8	1980.8	2011.9
30°	2527.5	2517.8	2369.9	2165.6	1965.2	1836.8	1821.2	1856.2	1883.5	1924.3	1926.3
32.5°	2568.4	2572.3	2381.6	2083.9	1832.9	1704.5	1681.1	1723.9	1801.8	1834.8	1860.1
35°	2636.5	2655.9	2371.9	1982.7	1692.8	1570.2	1566.3	1578.0	1653.9	1712.3	1745.3
37.5°	2755.2	2751.3	2369.9	1862.1	1581.9	1453.5	1422.3	1426.2	1476.8	1525.5	1519.6
40°	2914.7	2899.2	2364.1	1704.5	1437.9	1354.2	1301.7	1282.2	1278.4	1264.7	1268.6
42.5°	3132.7	3101.5	2362.1	1544.9	1307.5	1218.0	1181.1	1130.5	1093.5	1023.5	1027.4
45°	3436.2	3381.7	2311.5	1395.1	1179.1	1105.2	1048.8	1011.8	932.0	844.5	844.5
47.5°	3905.1	3728.1	2313.5	1229.7	1054.6	994.3	955.4	891.2	805.5	735.5	727.7
50°	4595.9	4191.1	2247.3	1099.3	953.4	912.6	871.7	797.8	716.0	667.4	673.2
52.5°	5487.0	4881.9	2245.4	982.6	873.6	844.5	799.7	733.5	673.2	642.1	630.4
55°	6549.4	5796.4	2315.4	887.3	791.9	776.4	756.9	702.4	644.0	616.8	614.9
57.5°	7637.1	6689.5	2428.3	819.2	721.9	733.5	719.9	677.1	630.4	599.3	595.4
60°	8604.1	7397.7	2200.6	737.4	659.6	684.9	704.4	667.4	642.1	640.2	626.5
62.5°	9333.8	7701.3	1673.3	675.2	626.5	673.2	725.8	749.1	737.4	753.0	754.9
65°	9600.3	7518.4	1151.9	642.1	601.2	700.5	817.2	809.4	741.3	712.1	727.7
67.5°	9226.7	6777.0	854.2	603.2	583.7	756.9	869.7	772.5	669.3	665.4	653.8
70°	7934.8	5743.8	696.6	562.3	554.5	725.8	846.4	716.0	630.4	605.1	593.5
72°	6321.7	4473.3	611.0	533.1	507.8	647.9	791.9	671.3	597.3	566.2	552.6
72.5°	5771.1	4146.4	599.3	519.5	498.1	630.4	764.7	657.7	589.6	562.3	540.9
75°	3165.7	2122.8	527.3	476.7	420.3	544.8	708.3	616.8	556.5	517.6	513.7
77.5°	1177.2	823.1	455.3	422.2	363.9	470.9	644.0	585.7	505.9	457.3	447.5
80°	451.4	433.9	371.6	356.1	305.5	412.5	593.5	525.4	430.0	381.4	365.8
82.5°	274.4	252.9	282.1	278.2	233.5	375.5	558.4	492.3	381.4	309.4	299.6
85°	149.8	149.8	196.5	188.7	163.4	299.6	422.2	326.9	241.3	198.5	202.4
87.5°	66.2	77.8	105.1	99.2	89.5	169.3	206.2	173.2	120.6	81.7	87.6
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)