

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: P476733

Luminaire Tested: **IFLD-M-SA4A-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476733  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

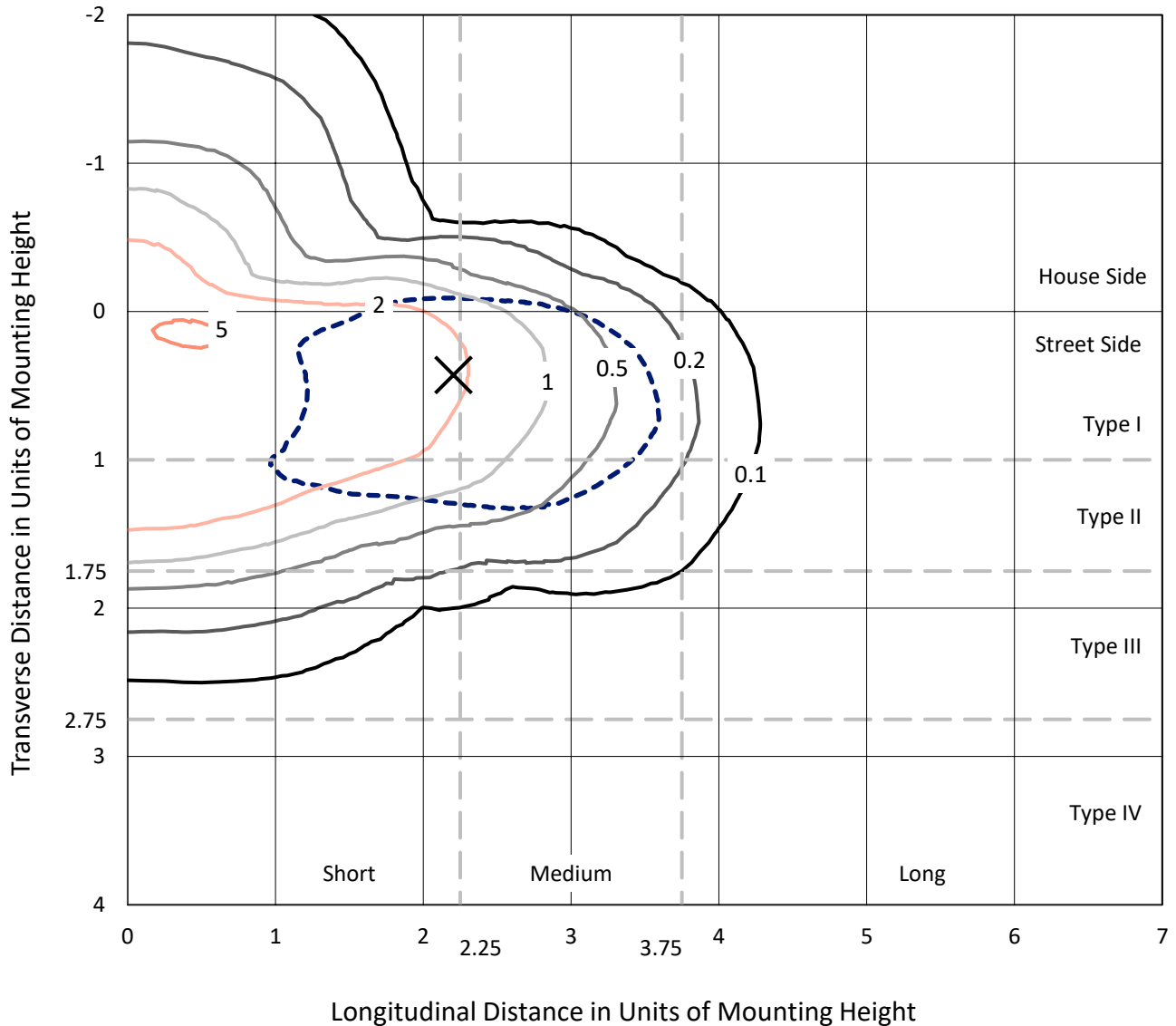
Lumens per Lamp: N/A  
Luminaire Lumens: 13559 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6  
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

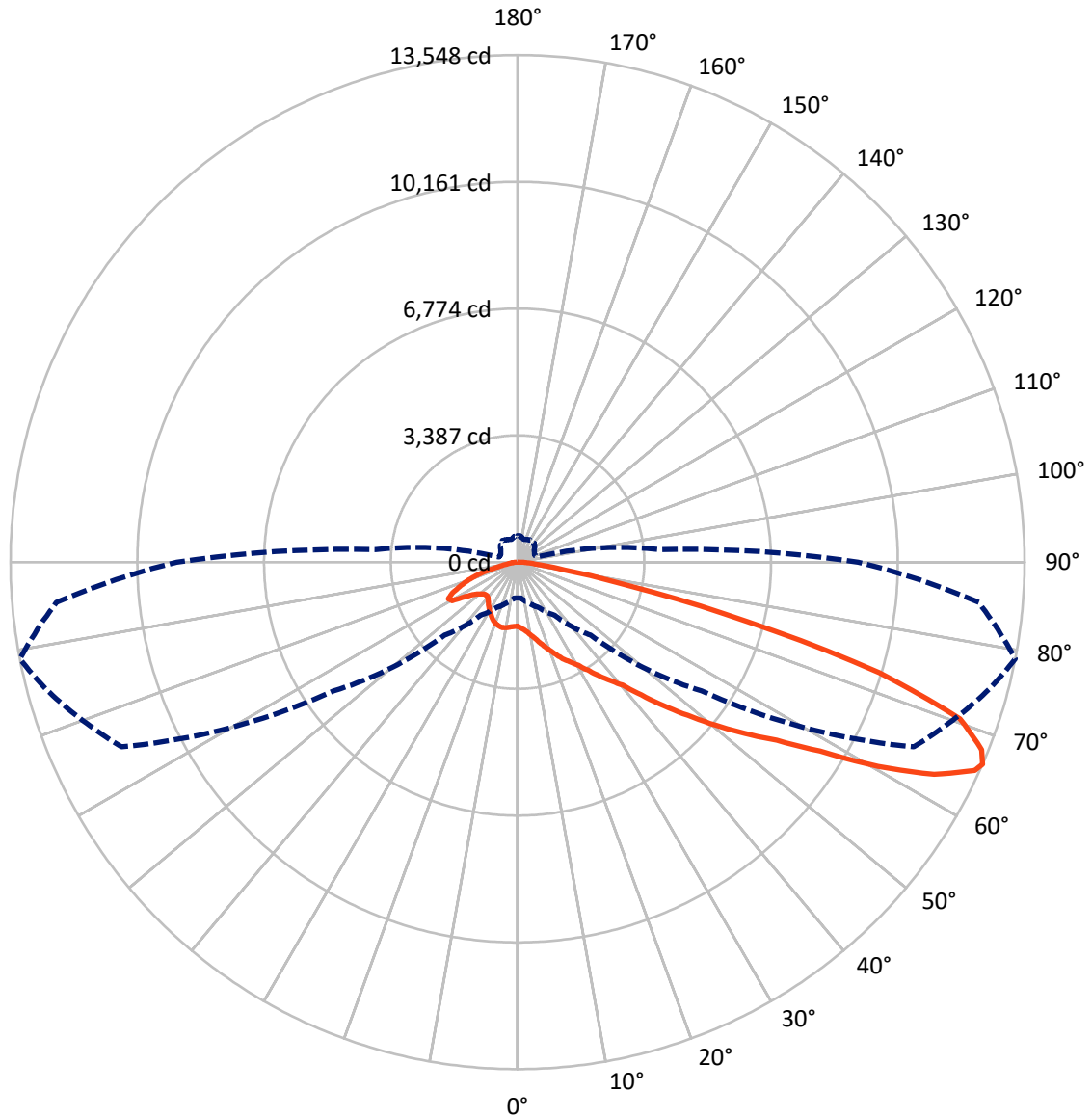
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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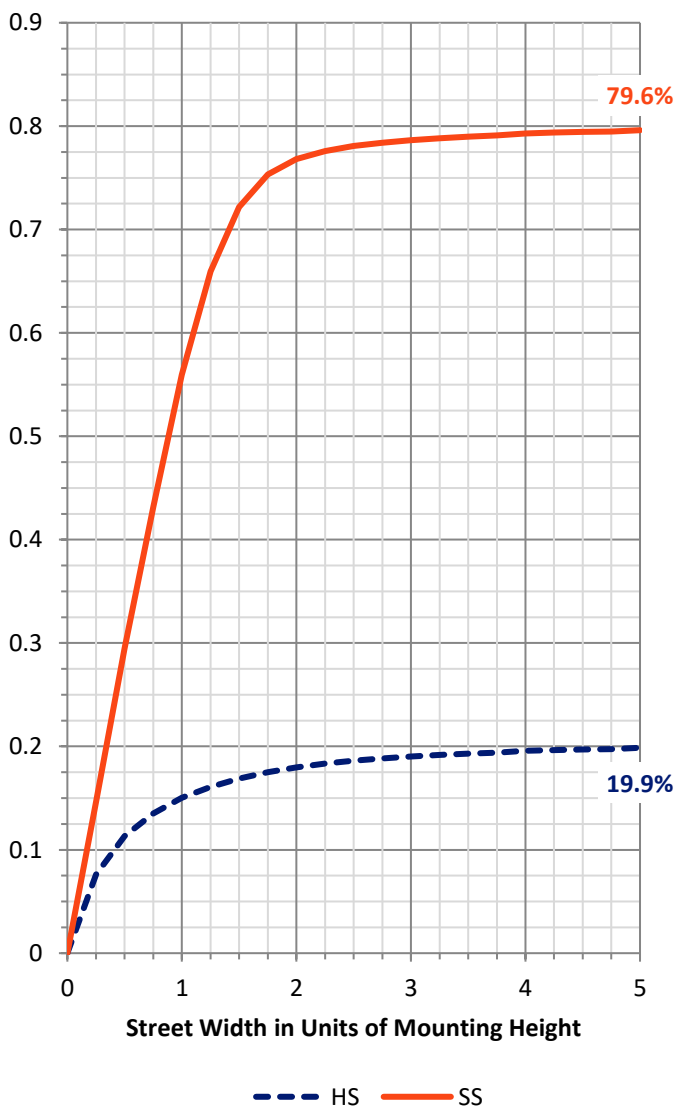
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2738.1	0.0	2738.1
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10820.9	0.0	10820.9
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13559.0	0.0	13559.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	1.2
10°-20°	519.9	3.8
20°-30°	892.4	6.6
30°-40°	1378.5	10.2
40°-50°	2208.0	16.3
50°-60°	3296.8	24.3
60°-70°	3387.4	25.0
70°-80°	1501.6	11.1
80°-90°	206.0	1.5
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°	13559.0	100.0
0°-180°	13559.0	100.0

**Coefficient of Utilization**



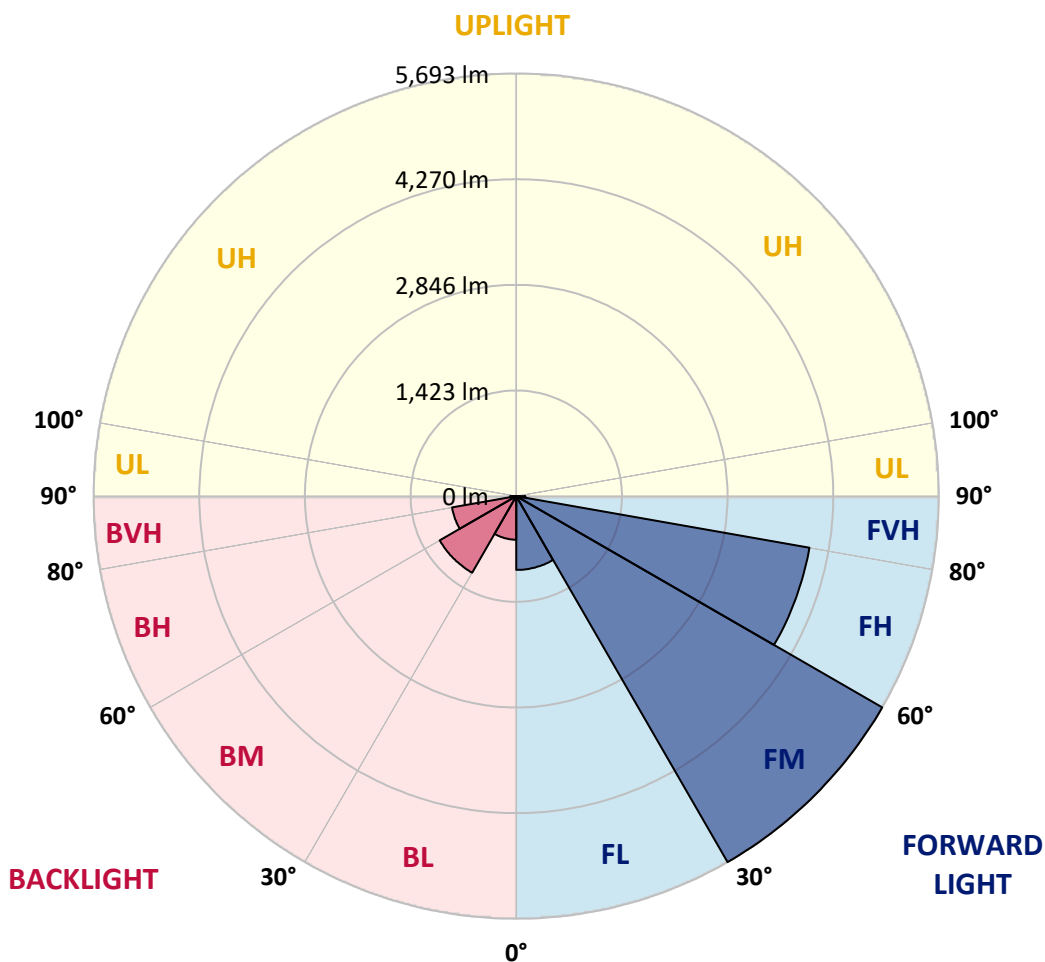
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.0	7.3			
FM (30°-60°)	5693.0	42.0			
FH (60°-80°)	4010.4	29.6			G2/5000
FVH (80°-90°)	123.6	0.9			G2/225
BL (0°-30°)	586.6	4.3	B2/1000		
BM (30°-60°)	1190.4	8.8	B2/2500		
BH (60°-80°)	878.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	82.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1
2.5°	1821.0	1822.5	1822.5	1816.5	1818.0	1822.5	1806.1	1770.3	1770.3	1764.3	1753.9
5°	1932.8	1925.4	1915.0	1916.4	1910.5	1910.5	1892.6	1858.3	1828.5	1816.5	1785.2
7.5°	1947.8	1955.2	1953.7	1971.6	1980.6	1980.6	1989.5	1961.2	1916.4	1888.1	1856.8
10°	1977.6	1958.2	1956.7	1998.5	2011.9	2043.2	2079.0	2064.1	2026.8	1986.5	1944.8
12.5°	1995.5	2007.4	2007.4	2028.3	2059.6	2105.9	2168.5	2196.8	2138.7	2096.9	2032.8
15°	2022.3	2005.9	2053.7	2071.5	2131.2	2164.0	2253.5	2326.6	2287.8	2237.1	2135.7
17.5°	2034.3	2023.8	2050.7	2083.5	2184.9	2234.1	2343.0	2444.4	2411.6	2378.8	2274.4
20°	2095.4	2093.9	2105.9	2132.7	2205.8	2302.7	2438.4	2578.6	2590.6	2530.9	2389.2
22.5°	2244.6	2225.2	2225.2	2214.7	2246.0	2346.0	2529.4	2723.3	2777.0	2706.9	2519.0
25°	2381.8	2408.6	2392.2	2344.5	2332.5	2384.7	2595.0	2876.9	2948.5	2882.9	2695.0
27.5°	2557.7	2566.7	2595.0	2530.9	2448.9	2465.3	2666.6	2963.4	3111.1	3023.1	2794.9
30°	2811.3	2794.9	2788.9	2717.3	2609.9	2587.6	2748.6	3090.2	3324.3	3200.5	2912.7
32.5°	2982.8	3023.1	3021.6	2923.1	2793.4	2744.2	2850.1	3209.5	3552.5	3437.7	3130.4
35°	3322.8	3364.6	3331.8	3187.1	3035.0	2936.6	2996.2	3364.6	3813.5	3724.0	3315.4
37.5°	3756.8	3855.3	3785.2	3518.2	3303.4	3196.1	3199.0	3533.1	4080.5	4007.4	3513.7
40°	4056.6	4189.3	4092.4	3841.8	3613.7	3512.2	3472.0	3733.0	4399.6	4322.1	3823.9
42.5°	4428.0	4538.3	4487.6	4240.0	3973.1	3886.6	3806.0	4067.0	4887.3	4851.5	4222.1
45°	4833.6	4885.8	4869.4	4712.8	4416.0	4386.2	4208.7	4507.0	5461.5	5476.4	4720.3
47.5°	5210.9	5239.3	5270.6	5157.2	4972.3	4997.7	4672.5	4978.3	6019.3	6117.7	5275.1
50°	5307.9	5404.8	5477.9	5554.0	5594.2	5765.7	5184.1	5556.9	6660.6	6851.5	5892.5
52.5°	5209.4	5202.0	5424.2	5662.8	6065.5	6424.9	5880.6	6275.8	7227.3	7604.6	6457.7
55°	4762.0	4747.1	5105.0	5421.2	6207.2	6791.8	6875.3	7233.3	7911.9	8402.5	7222.8
57.5°	3979.0	3886.6	4277.3	4796.3	5900.0	6832.1	7874.6	8654.6	8964.8	9524.1	8390.6
60°	2674.1	2635.3	3009.6	3628.6	4790.4	6260.9	8472.6	10433.8	10448.7	11078.1	10202.6
62.5°	1646.5	1654.0	1894.1	2357.9	3354.1	4963.4	8214.6	11855.1	11858.1	12489.0	11694.0
65°	1076.8	1081.3	1275.1	1531.7	2095.4	3366.1	6793.3	11967.0	12837.9	13424.1	12377.1
66°	959.0	960.5	1127.5	1336.3	1736.0	2754.6	5999.9	11676.1	13058.7	13547.8	12368.1
67.5°	808.3	827.7	962.0	1123.0	1354.2	1979.1	4760.5	10835.0	12945.3	13374.8	12087.8
70°	632.4	642.8	748.7	912.7	1015.6	1145.4	2829.2	8832.0	11849.1	12545.6	11067.7
72.5°	507.1	516.0	596.6	741.2	824.7	754.6	1540.6	6408.5	9360.0	10102.7	8705.3
75°	428.0	429.5	468.3	583.1	678.6	566.7	820.3	4113.3	6005.9	6351.9	5333.2
77.5°	346.0	352.0	378.8	444.4	545.9	445.9	489.2	2304.2	3015.6	3041.0	2465.3
80°	281.9	284.9	301.3	323.6	416.1	329.6	331.1	1124.5	1293.0	1263.2	1002.2
82.5°	222.2	225.2	244.6	240.1	305.7	235.6	205.8	541.4	595.1	583.1	460.8
85°	125.3	125.3	192.4	192.4	193.9	149.1	125.3	255.0	314.7	293.8	216.3
87.5°	40.3	41.8	58.2	61.1	96.9	67.1	61.1	95.4	149.1	131.2	77.6
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°	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1	1712.1
2.5°	1747.9	1724.1	1713.6	1679.3	1670.4	1648.0	1637.6	1624.1	1619.7	1600.3	1618.2
5°	1761.3	1753.9	1712.1	1668.9	1636.1	1621.1	1598.8	1568.9	1566.0	1539.1	1536.1
7.5°	1818.0	1792.7	1719.6	1673.3	1607.7	1570.4	1521.2	1506.3	1486.9	1478.0	1497.4
10°	1906.0	1841.9	1733.0	1616.7	1536.1	1491.4	1455.6	1445.2	1446.7	1440.7	1431.7
12.5°	1968.6	1907.5	1710.6	1568.9	1464.6	1421.3	1418.3	1428.8	1445.2	1437.7	1448.1
15°	2058.1	1943.3	1694.2	1489.9	1406.4	1394.5	1393.0	1424.3	1422.8	1422.8	1421.3
17.5°	2141.6	1979.1	1634.6	1421.3	1345.2	1354.2	1364.6	1363.1	1378.1	1384.0	1394.5
20°	2247.5	2020.8	1551.1	1352.7	1299.0	1296.0	1294.5	1296.0	1310.9	1319.9	1312.4
22.5°	2340.0	2029.8	1481.0	1287.1	1243.8	1231.9	1212.5	1231.9	1224.4	1227.4	1236.4
25°	2420.5	2031.3	1381.0	1237.9	1188.6	1161.8	1146.9	1145.4	1132.0	1130.5	1130.5
27.5°	2487.6	1980.6	1293.0	1169.3	1123.0	1097.7	1096.2	1079.8	1045.5	1023.1	1026.1
30°	2539.8	1941.8	1231.9	1109.6	1064.9	1060.4	1047.0	1009.7	964.9	936.6	936.6
32.5°	2632.3	1864.2	1148.4	1048.5	1026.1	1020.1	988.8	956.0	914.2	887.4	882.9
35°	2700.9	1792.7	1093.2	996.3	985.8	973.9	947.0	911.2	899.3	893.3	897.8
37.5°	2778.5	1712.1	1026.1	951.5	962.0	939.6	908.3	891.9	933.6	923.2	927.6
40°	2902.3	1655.4	960.5	924.7	935.1	909.8	869.5	863.5	915.7	878.4	869.5
42.5°	3128.9	1654.0	920.2	884.4	891.9	872.5	836.7	833.7	854.6	809.8	796.4
45°	3410.8	1706.2	890.4	854.6	848.6	845.6	833.7	820.3	802.4	744.2	729.3
47.5°	3747.9	1791.2	884.4	809.8	817.3	842.6	827.7	793.4	747.2	709.9	702.4
50°	4156.5	1967.2	869.5	777.0	790.4	830.7	818.8	771.1	729.3	705.4	701.0
52.5°	4608.4	2189.4	850.1	726.3	756.1	820.3	826.2	781.5	720.3	699.5	696.5
55°	5140.8	2517.5	827.7	671.1	715.9	809.8	826.2	751.7	708.4	708.4	705.4
57.5°	6192.3	3108.1	781.5	620.4	680.1	790.4	802.4	753.2	709.9	709.9	703.9
60°	7734.4	4029.8	693.5	581.6	645.8	763.6	784.5	730.8	693.5	702.4	701.0
62.5°	8940.9	4310.1	618.9	544.4	611.5	714.4	760.6	706.9	674.1	706.9	709.9
65°	9198.9	4026.8	542.9	504.1	563.7	666.7	726.3	672.6	645.8	709.9	712.9
66°	9106.5	3806.0	516.0	492.2	542.9	642.8	705.4	660.7	630.9	706.9	708.4
67.5°	8694.8	3475.0	486.2	466.8	514.5	608.5	681.6	644.3	607.0	698.0	684.6
70°	7800.0	2947.0	435.5	422.1	474.3	551.8	626.4	602.5	569.7	642.8	618.9
72.5°	6007.3	2354.9	381.8	383.3	428.0	493.7	571.2	554.8	526.5	563.7	548.8
75°	3658.4	1504.8	332.6	335.6	372.8	438.5	519.0	507.1	472.8	493.7	486.2
77.5°	1621.1	745.7	280.4	286.3	316.2	386.3	451.9	432.5	396.7	401.2	398.2
80°	629.4	353.5	228.2	235.6	255.0	308.7	374.3	356.4	325.1	319.2	316.2
82.5°	302.8	196.9	176.0	179.0	186.4	246.1	322.1	299.8	258.0	231.2	231.2
85°	152.1	122.3	123.8	113.3	123.8	167.0	217.7	182.0	150.6	134.2	137.2
87.5°	61.1	61.1	61.1	52.2	55.2	79.0	101.4	68.6	62.6	37.3	37.3
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)