

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: P480219

Luminaire Tested: **IFLD-S-SA2B-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

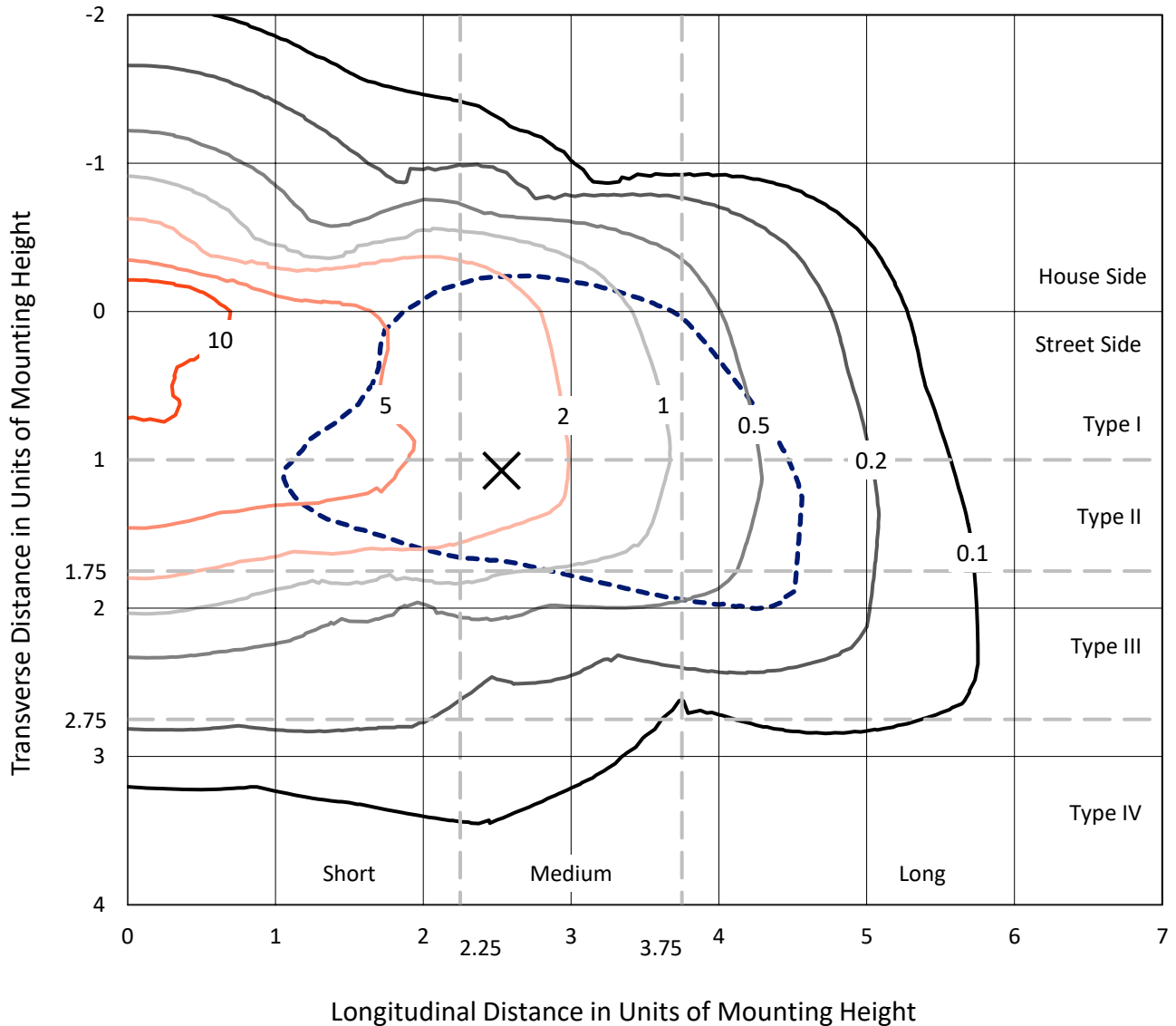
Lumens per Lamp: N/A  
Luminaire Lumens: 8368.5 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

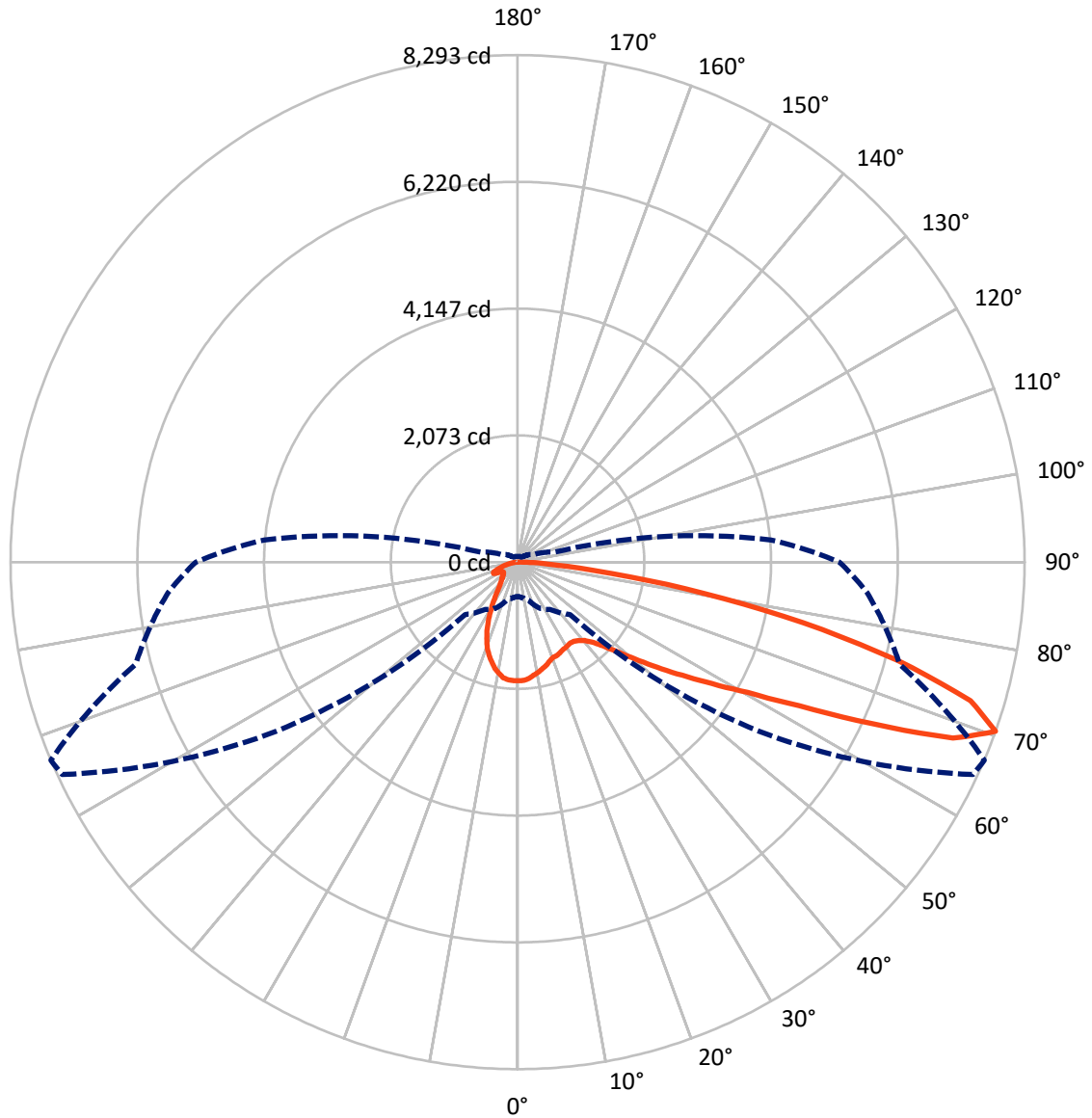
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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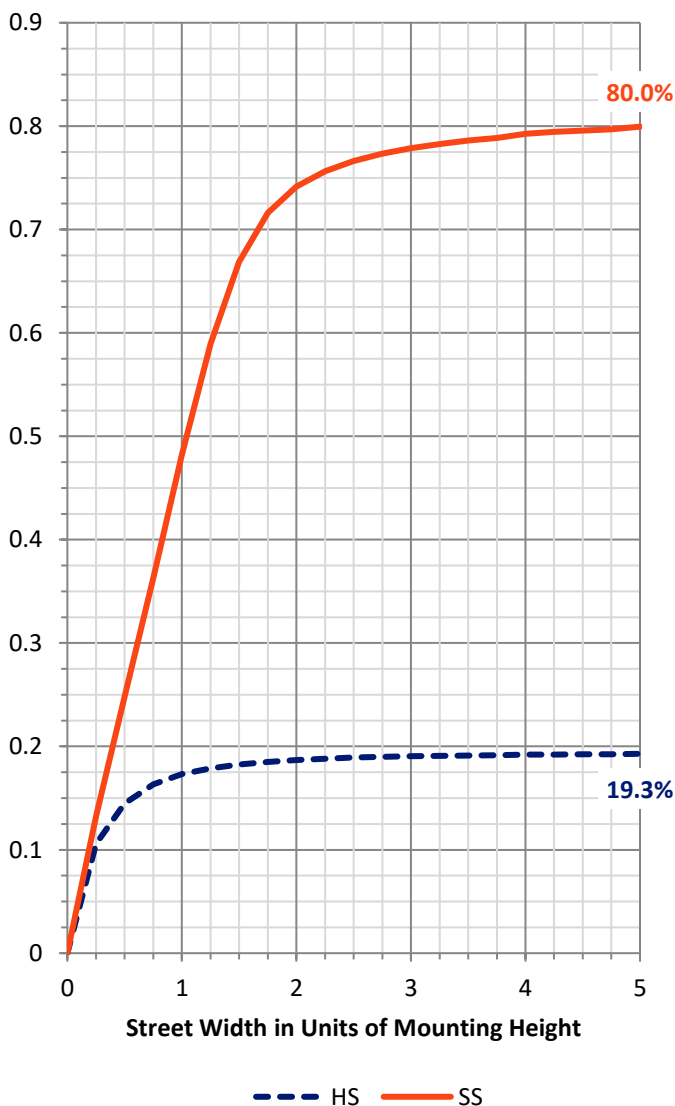
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1629.8	0.0	1629.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	6738.7	0.0	6738.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	8368.5	0.0	8368.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.0	2.0
10°-20°	404.8	4.8
20°-30°	546.7	6.5
30°-40°	731.5	8.7
40°-50°	1075.7	12.9
50°-60°	1676.7	20.0
60°-70°	2065.4	24.7
70°-80°	1459.4	17.4
80°-90°	239.2	2.9
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°	8368.5	100.0
0°-180°	8368.5	100.0

**Coefficient of Utilization**



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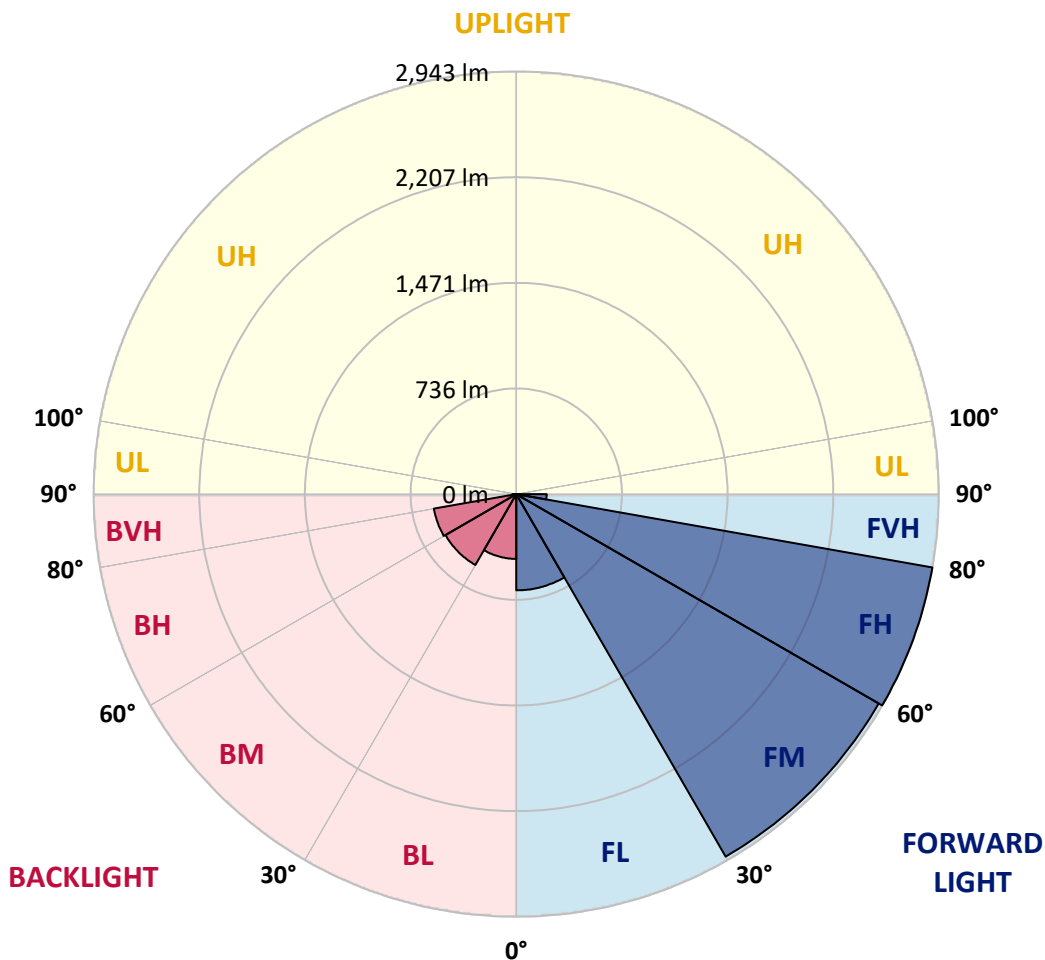
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.8	8.0			
FM (30°-60°)	2914.6	34.8			
FH (60°-80°)	2942.6	35.2			G2/5000
FVH (80°-90°)	211.6	2.5			G2/225
BL (0°-30°)	450.7	5.4	B1/500		
BM (30°-60°)	569.3	6.8	B1/1000		
BH (60°-80°)	582.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	27.6	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3
2.5°	1803.9	1824.3	1831.7	1842.8	1871.5	1892.8	1905.8	1920.6	1938.2	1953.0	1962.3
5°	1677.9	1689.0	1706.6	1718.6	1754.8	1812.2	1851.1	1914.1	1912.3	1935.4	1970.6
7.5°	1555.6	1566.7	1575.0	1599.1	1651.0	1702.9	1774.2	1876.1	1868.7	1922.5	1977.1
10°	1479.6	1471.3	1474.0	1514.8	1555.6	1613.9	1703.8	1807.6	1834.4	1917.8	1995.7
12.5°	1408.3	1399.0	1421.2	1447.2	1497.2	1550.0	1657.5	1751.1	1791.8	1901.2	2004.0
15°	1363.8	1357.3	1385.1	1396.2	1455.5	1518.5	1594.5	1708.4	1752.9	1880.8	1991.0
17.5°	1338.8	1344.3	1354.5	1378.6	1416.6	1470.3	1553.7	1679.7	1699.2	1855.8	1988.2
20°	1343.4	1349.9	1350.8	1361.0	1387.0	1428.6	1513.9	1649.1	1662.1	1851.1	1995.7
22.5°	1380.5	1371.2	1374.9	1368.4	1375.8	1408.3	1483.3	1608.4	1658.4	1812.2	1979.9
25°	1436.1	1423.1	1421.2	1399.0	1385.1	1394.4	1477.7	1598.2	1630.6	1800.2	1979.0
27.5°	1534.3	1514.8	1514.8	1481.5	1424.9	1410.1	1462.0	1581.5	1610.2	1789.0	1957.7
30°	1628.8	1628.8	1629.7	1582.4	1519.4	1446.2	1468.5	1575.0	1593.6	1755.7	1928.9
32.5°	1743.6	1740.9	1736.2	1713.1	1615.8	1506.5	1500.0	1566.7	1576.0	1744.6	1920.6
35°	1855.8	1848.3	1884.5	1864.1	1765.0	1624.1	1532.4	1570.4	1590.8	1727.9	1894.7
37.5°	1940.1	1944.7	2019.7	2032.7	1947.5	1757.5	1624.1	1607.5	1626.9	1752.0	1894.7
40°	2049.4	2067.9	2138.3	2181.9	2130.0	1933.6	1769.6	1669.5	1683.4	1805.7	1935.4
42.5°	2193.0	2208.7	2298.6	2355.1	2340.3	2157.8	1913.2	1799.2	1788.1	1895.6	1996.6
45°	2382.9	2385.7	2476.5	2554.3	2584.9	2392.2	2141.1	1963.2	1954.0	2050.3	2108.7
47.5°	2609.0	2606.2	2662.7	2746.1	2828.6	2672.0	2403.3	2212.4	2179.1	2271.7	2294.9
50°	2827.6	2815.6	2828.6	2935.1	3093.5	3022.2	2722.0	2517.3	2483.9	2534.9	2574.7
52.5°	2948.1	2962.9	2927.7	3068.5	3375.2	3436.3	3144.5	2881.4	2852.7	2877.7	2947.2
55°	2863.8	2894.3	2871.2	3004.6	3498.4	3941.3	3691.1	3302.9	3265.9	3256.6	3370.6
57.5°	2505.2	2560.8	2565.4	2776.7	3455.8	4332.3	4460.1	3800.4	3744.9	3650.4	3768.0
60°	1923.4	1979.0	2021.6	2271.7	3090.8	4565.7	5351.4	4508.3	4324.8	4080.2	4150.7
62.5°	1348.0	1386.0	1428.6	1582.4	2382.9	4428.6	6122.2	5505.2	5167.0	4533.3	4621.3
65°	982.1	1011.7	1055.3	1146.1	1463.8	3664.3	6479.8	6689.2	6368.7	5109.6	5098.5
67.5°	739.3	757.9	815.3	960.8	1014.5	2263.4	6109.3	7940.0	7680.6	5749.8	5482.0
70°	559.6	575.3	629.1	828.3	947.8	1213.7	4819.6	8218.9	8293.0	6467.8	5739.6
72.5°	385.4	403.0	463.2	690.2	902.4	962.6	3025.0	7466.6	7747.3	6763.4	5463.5
75°	236.3	248.3	283.5	523.5	895.9	941.3	1664.9	6118.5	6415.9	6249.2	4779.7
77.5°	166.8	165.8	172.3	306.7	776.4	946.9	1026.5	4483.3	4772.3	4605.6	3243.6
80°	121.4	122.3	128.8	183.4	527.2	962.6	808.8	3002.7	3088.9	2401.5	1279.5
82.5°	73.2	76.9	92.6	124.1	316.9	869.0	747.7	1668.6	1561.1	770.8	352.1
85°	38.9	38.9	54.7	78.8	168.6	648.5	719.9	794.0	665.2	239.0	130.6
87.5°	9.3	9.3	15.8	31.5	67.6	310.4	491.0	315.9	252.9	80.6	53.7
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°	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3	1937.3
2.5°	1958.6	1947.5	1961.4	1933.6	1911.3	1912.3	1878.0	1876.1	1871.5	1847.4	1855.8
5°	1980.8	1971.6	1955.8	1925.2	1876.1	1827.0	1797.4	1759.4	1743.6	1735.3	1739.0
7.5°	2002.1	1985.5	1940.1	1897.4	1821.5	1728.8	1675.1	1624.1	1559.3	1551.9	1538.9
10°	2007.7	1972.5	1914.1	1823.3	1722.3	1619.5	1497.2	1402.7	1352.7	1313.8	1298.9
12.5°	1999.4	1984.5	1872.4	1755.7	1602.8	1441.6	1298.9	1165.5	1072.9	1024.7	1011.7
15°	1998.4	1972.5	1826.1	1652.9	1457.4	1247.1	1044.2	883.9	786.6	746.7	746.7
17.5°	1999.4	1937.3	1771.4	1549.1	1286.0	1001.5	778.2	646.7	593.0	587.4	592.0
20°	1980.8	1911.3	1714.0	1426.8	1071.0	752.3	565.2	511.4	511.4	518.8	521.6
22.5°	1964.2	1872.4	1623.2	1275.8	852.4	544.8	459.5	443.8	461.4	474.4	479.9
25°	1941.0	1840.0	1530.6	1119.2	648.5	439.2	399.3	403.0	419.7	442.9	441.0
27.5°	1907.6	1783.5	1420.3	937.6	482.7	378.9	368.7	370.6	388.2	398.4	396.5
30°	1869.6	1726.0	1318.4	756.9	382.6	347.4	346.5	351.1	353.9	359.5	358.6
32.5°	1821.5	1650.1	1210.0	588.3	344.7	329.8	326.1	323.3	326.1	325.2	322.4
35°	1787.2	1609.3	1099.7	448.4	323.3	314.1	311.3	306.7	303.0	297.4	296.5
37.5°	1777.9	1568.5	983.9	366.0	306.7	302.0	292.8	284.4	279.8	277.0	275.2
40°	1772.4	1541.7	870.9	321.5	292.8	288.1	277.0	265.9	261.3	258.5	259.4
42.5°	1791.8	1526.8	756.0	299.3	280.7	272.4	260.3	247.4	246.4	244.6	247.4
45°	1860.4	1545.4	649.5	283.5	268.7	254.8	239.0	232.5	231.6	229.8	231.6
47.5°	2016.0	1591.7	558.7	273.3	255.7	243.7	227.0	217.7	216.8	215.9	215.9
50°	2231.0	1734.4	482.7	261.3	247.4	230.7	214.9	204.8	202.9	199.2	199.2
52.5°	2568.2	1974.3	437.3	254.8	232.5	218.7	202.0	190.9	186.2	182.5	182.5
55°	2948.1	2271.7	429.0	243.7	216.8	203.8	189.0	177.9	173.3	168.6	166.8
57.5°	3380.7	2665.5	488.3	236.3	205.7	189.0	172.3	162.1	158.4	153.8	151.9
60°	3783.8	3058.3	672.6	225.1	195.5	175.1	158.4	148.2	143.6	139.0	139.0
62.5°	4249.8	3544.7	984.9	225.1	186.2	160.3	143.6	136.2	133.4	128.8	127.9
65°	4801.1	4047.8	1212.8	239.0	183.4	147.3	129.7	122.3	119.5	116.7	115.8
67.5°	5220.8	4336.9	1043.2	276.1	195.5	136.2	115.8	111.2	109.3	106.5	104.7
70°	5265.2	4160.9	629.1	298.3	207.5	125.1	103.8	99.1	99.1	96.4	94.5
72.5°	4865.9	3692.0	423.4	265.9	188.1	112.1	91.7	88.0	86.2	84.3	83.4
75°	4071.9	3131.5	334.5	212.2	144.5	92.6	79.7	76.0	73.2	72.3	70.4
77.5°	2735.0	2035.5	247.4	165.8	106.5	75.0	66.7	63.0	60.2	59.3	56.5
80°	1050.6	775.5	159.4	120.4	75.0	59.3	52.8	49.1	47.3	44.5	42.6
82.5°	309.4	251.1	88.9	74.1	48.2	40.8	38.0	35.2	32.4	29.6	28.7
85°	127.9	114.9	54.7	38.9	29.6	24.1	22.2	19.5	16.7	14.8	13.0
87.5°	59.3	49.1	25.0	14.8	10.2	5.6	2.8	0.9	0.0	0.0	0.0
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)