

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: P484158

Luminaire Tested: **IFLD-S-SA2B-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484158  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

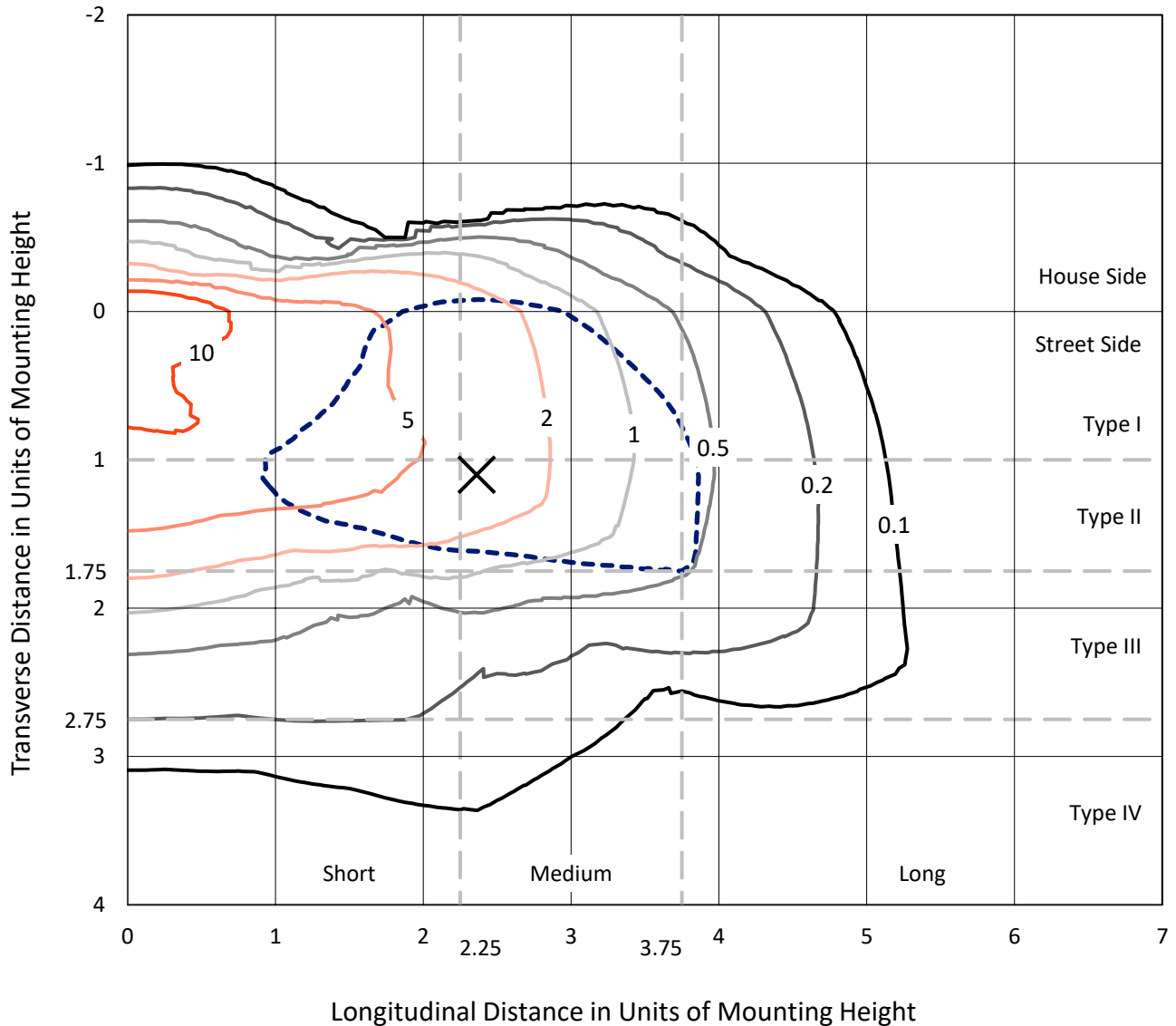
Lumens per Lamp: N/A  
Luminaire Lumens: 7467.2 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

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

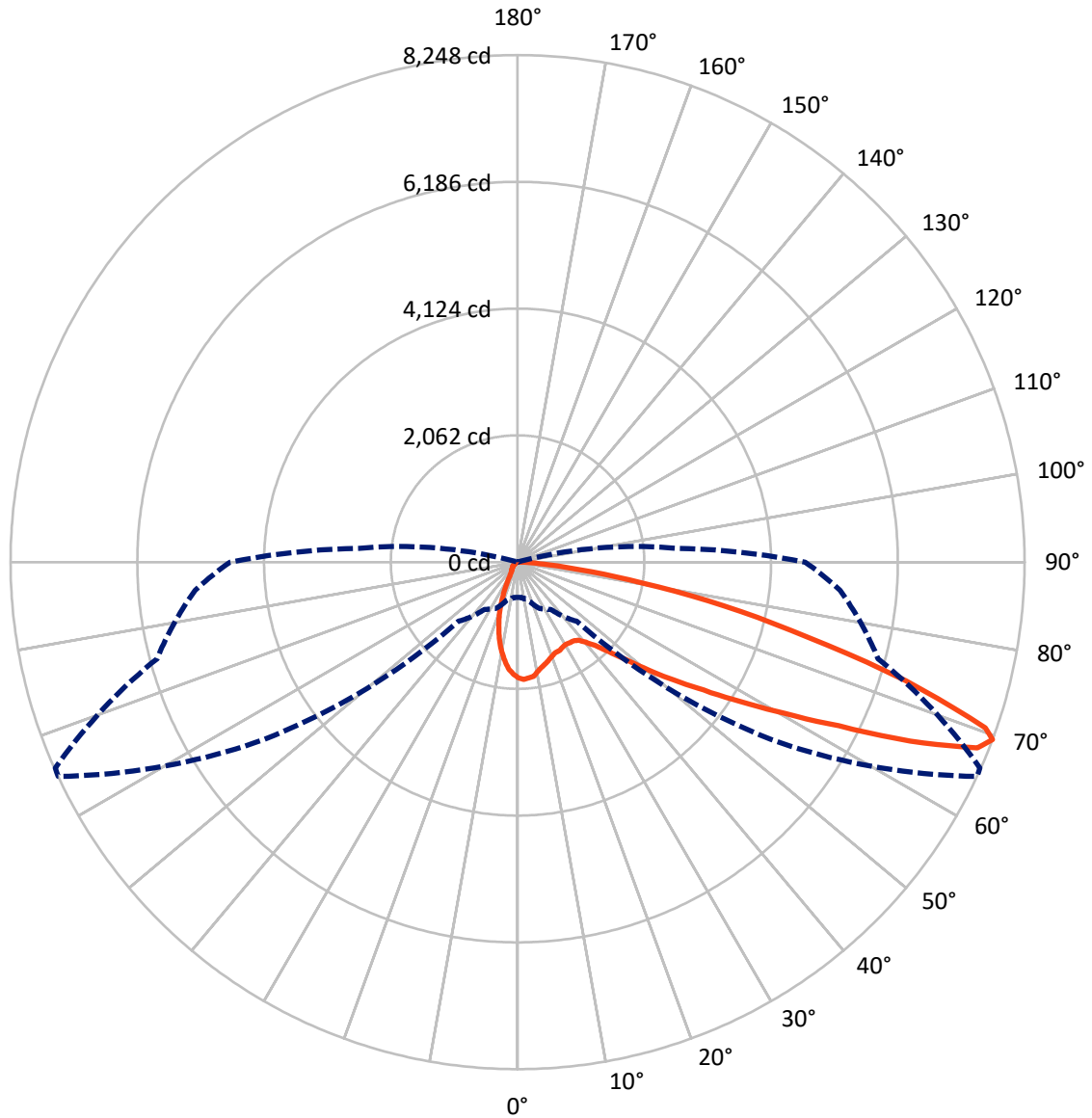
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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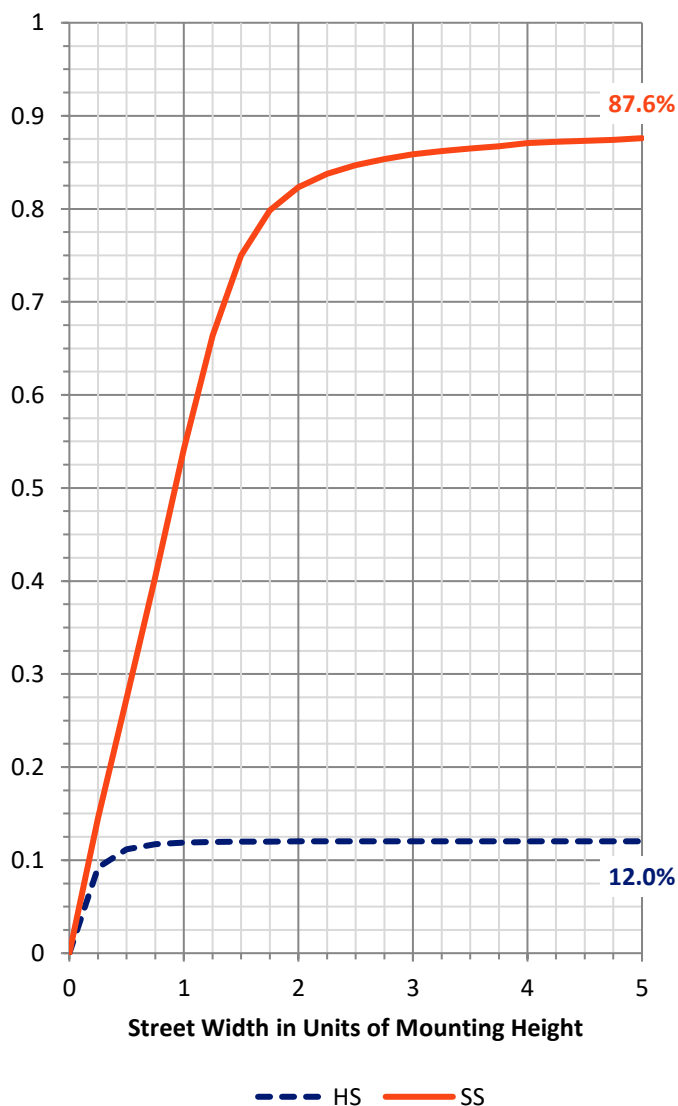
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	905.8	0.0	905.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	6561.4	0.0	6561.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	7467.2	0.0	7467.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	2.1
10°-20°	337.1	4.5
20°-30°	469.3	6.3
30°-40°	665.0	8.9
40°-50°	1048.1	14.0
50°-60°	1700.7	22.8
60°-70°	1899.3	25.4
70°-80°	1069.5	14.3
80°-90°	124.1	1.7
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°	7467.2	100.0
0°-180°	7467.2	100.0

**Coefficient of Utilization**

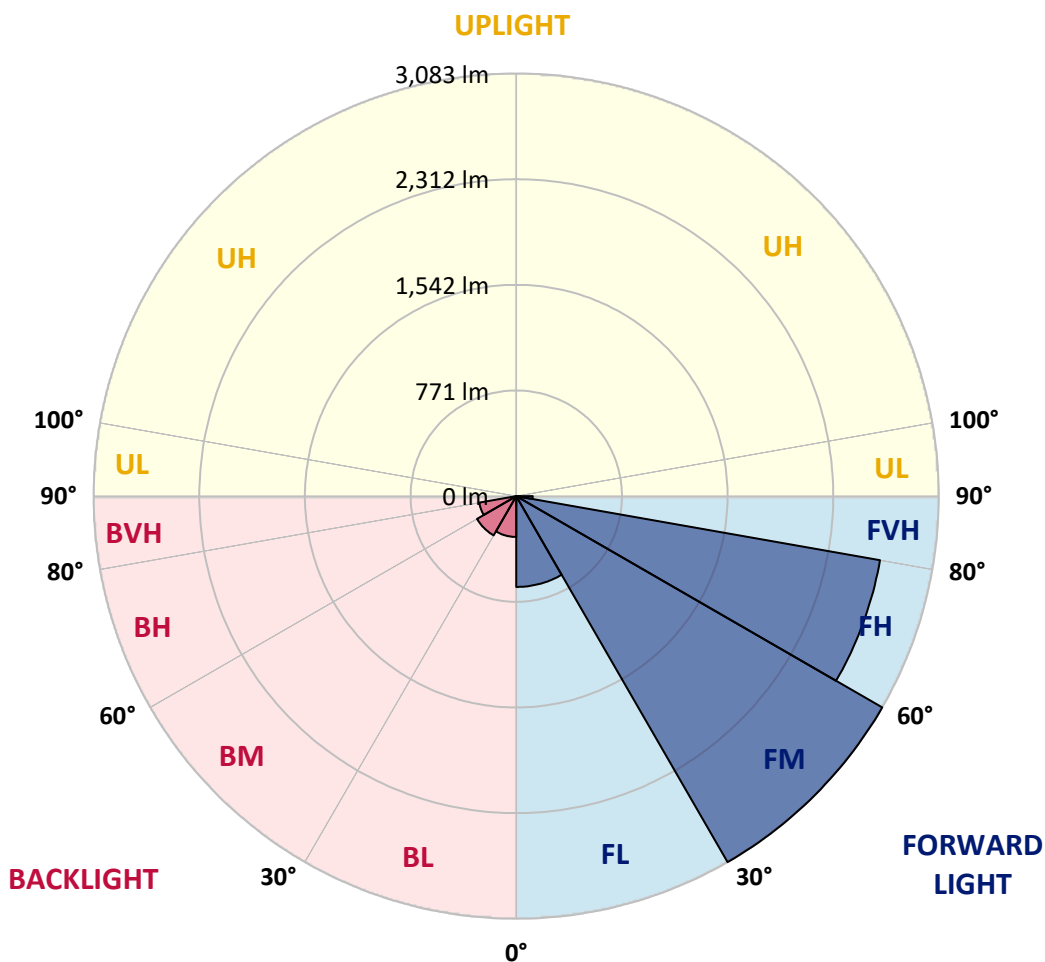


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.6	8.9			
FM (30°-60°)	3083.3	41.3			
FH (60°-80°)	2694.8	36.1			G2/5000
FVH (80°-90°)	120.7	1.6			G2/225
BL (0°-30°)	297.8	4.0	B1/500		
BM (30°-60°)	330.5	4.4	B1/1000		
BH (60°-80°)	274.1	3.7	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7
2.5°	1813.1	1827.3	1831.3	1845.4	1852.4	1882.7	1899.8	1909.8	1904.8	1915.9	1916.9
5°	1684.2	1676.2	1697.3	1712.4	1744.7	1797.0	1850.4	1891.7	1910.9	1929.0	1926.0
7.5°	1546.2	1542.2	1563.3	1597.6	1626.8	1690.3	1775.9	1877.6	1873.6	1917.9	1931.0
10°	1451.5	1455.6	1462.6	1496.9	1540.2	1604.6	1711.4	1806.1	1827.3	1920.9	1947.1
12.5°	1364.9	1371.9	1385.0	1420.3	1470.7	1537.1	1640.9	1751.7	1783.9	1903.8	1956.2
15°	1336.7	1320.6	1346.8	1373.0	1425.3	1484.8	1572.4	1710.4	1724.5	1883.7	1971.3
17.5°	1313.5	1303.5	1315.5	1336.7	1392.1	1440.4	1523.0	1666.1	1692.3	1875.6	1969.3
20°	1320.6	1311.5	1316.5	1332.7	1357.8	1403.2	1479.7	1623.8	1652.0	1838.3	1966.3
22.5°	1340.7	1347.8	1338.7	1342.7	1350.8	1374.0	1456.6	1593.6	1617.7	1831.3	1983.4
25°	1431.4	1419.3	1407.2	1402.2	1354.8	1364.9	1449.5	1591.5	1608.7	1806.1	1969.3
27.5°	1526.1	1516.0	1511.0	1481.7	1417.3	1387.1	1450.5	1563.3	1586.5	1796.0	1952.2
30°	1640.9	1654.0	1633.8	1598.6	1508.9	1434.4	1461.6	1549.2	1581.5	1757.7	1941.1
32.5°	1761.8	1768.8	1778.9	1752.7	1636.9	1505.9	1494.8	1562.3	1564.3	1757.7	1915.9
35°	1898.8	1888.7	1914.9	1916.9	1815.2	1632.8	1558.3	1571.4	1592.5	1749.7	1906.8
37.5°	2016.6	2033.7	2064.0	2112.3	2007.6	1812.1	1657.0	1613.7	1622.8	1787.0	1913.9
40°	2145.6	2162.7	2231.2	2279.5	2220.1	2013.6	1807.1	1712.4	1719.5	1842.4	1950.1
42.5°	2287.6	2320.8	2402.4	2487.0	2470.9	2269.5	2000.5	1857.5	1854.4	1980.4	2024.7
45°	2480.0	2524.3	2612.9	2710.7	2724.8	2562.6	2258.4	2074.0	2084.1	2160.7	2178.8
47.5°	2747.9	2745.9	2832.5	2941.3	3022.9	2866.8	2566.6	2365.2	2364.1	2445.7	2407.5
50°	3006.8	3007.8	3031.0	3156.9	3368.4	3288.8	2948.4	2752.0	2740.9	2781.2	2719.7
52.5°	3126.7	3112.6	3095.4	3247.6	3634.4	3820.7	3431.9	3190.1	3181.1	3156.9	3140.8
55°	3000.8	3005.8	3004.8	3162.9	3774.4	4381.8	4052.4	3672.6	3657.5	3582.0	3604.1
57.5°	2596.8	2580.7	2616.0	2862.8	3614.2	4764.6	4939.8	4281.0	4241.8	3990.9	3940.6
60°	1933.0	1938.1	1967.3	2258.4	3216.3	4845.1	5789.0	4995.2	4826.0	4279.0	4209.5
62.5°	1349.8	1339.7	1350.8	1514.0	2299.7	4522.8	6363.1	5863.5	5700.3	4606.4	4566.1
65°	966.0	952.9	997.2	1097.0	1381.0	3458.1	6444.7	7019.9	6873.8	5129.2	5032.5
67.5°	695.0	693.0	744.4	925.7	981.1	1991.4	5840.4	8067.5	7978.9	5749.7	5316.6
69°	575.2	576.2	625.5	829.0	936.8	1359.9	5025.4	8247.8	8231.7	6070.0	5263.2
70°	501.6	505.7	563.1	771.6	918.7	1118.1	4332.4	8070.5	8054.4	6132.5	5086.9
72.5°	309.2	312.3	387.8	618.5	873.3	912.6	2590.8	6602.9	6658.3	5846.4	4382.8
75°	148.1	149.1	203.5	447.2	842.1	865.3	1388.1	4872.3	4989.2	4720.2	3424.8
77.5°	78.6	78.6	97.7	237.7	681.9	813.9	824.0	3436.9	3533.6	2984.6	1947.1
80°	39.3	40.3	59.4	123.9	423.1	797.8	643.7	2049.9	2102.2	1217.8	606.4
82.5°	15.1	16.1	28.2	74.5	219.6	673.9	565.1	1008.3	995.2	285.1	148.1
85°	2.0	2.0	10.1	44.3	93.7	297.2	466.4	421.1	407.0	62.5	71.5
87.5°	0.0	0.0	2.0	13.1	28.2	86.6	180.3	115.8	128.9	17.1	35.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7	1882.7
2.5°	1911.9	1890.7	1858.5	1827.3	1794.0	1753.7	1709.4	1693.3	1665.1	1663.1	1679.2
5°	1909.8	1875.6	1819.2	1752.7	1658.0	1586.5	1508.9	1452.5	1409.2	1381.0	1388.1
7.5°	1919.9	1878.6	1780.9	1637.9	1516.0	1374.0	1254.1	1171.5	1095.9	1058.7	1054.6
10°	1903.8	1848.4	1705.4	1504.9	1325.6	1127.2	951.9	841.1	728.3	687.0	689.0
12.5°	1912.9	1835.3	1623.8	1367.9	1121.1	863.3	653.7	502.6	396.9	362.6	358.6
15°	1918.9	1807.1	1545.2	1203.7	894.5	588.3	378.7	285.1	251.8	245.8	244.8
17.5°	1895.7	1772.9	1434.4	1041.6	662.8	357.6	251.8	232.7	226.6	222.6	220.6
20°	1894.7	1752.7	1338.7	875.3	442.2	243.8	217.6	210.5	201.5	198.4	198.4
22.5°	1877.6	1710.4	1223.9	693.0	282.0	209.5	195.4	184.3	174.3	170.2	169.2
25°	1872.6	1661.0	1116.1	520.8	214.6	187.4	173.3	157.1	145.1	139.0	136.0
27.5°	1858.5	1618.7	1007.3	366.7	187.4	167.2	149.1	132.0	117.9	108.8	107.8
30°	1808.1	1574.4	886.4	253.8	170.2	148.1	127.9	107.8	93.7	87.6	85.6
32.5°	1787.0	1533.1	754.5	195.4	155.1	130.9	107.8	89.7	78.6	72.5	71.5
35°	1761.8	1472.7	626.5	170.2	141.0	113.8	90.7	75.5	66.5	61.4	61.4
37.5°	1764.8	1424.3	506.7	154.1	125.9	97.7	77.6	64.5	56.4	51.4	51.4
40°	1755.7	1386.1	393.9	140.0	111.8	83.6	65.5	54.4	47.3	42.3	41.3
42.5°	1797.0	1376.0	297.2	127.9	97.7	71.5	56.4	46.3	39.3	33.2	33.2
45°	1866.5	1392.1	231.7	116.8	83.6	61.4	48.4	38.3	31.2	27.2	26.2
47.5°	2051.9	1455.6	181.3	107.8	71.5	53.4	40.3	31.2	25.2	21.2	20.1
50°	2320.8	1597.6	154.1	94.7	60.4	45.3	33.2	24.2	20.1	16.1	15.1
52.5°	2703.6	1836.3	140.0	83.6	50.4	37.3	26.2	19.1	15.1	12.1	11.1
55°	3120.6	2134.5	126.9	70.5	42.3	30.2	21.2	15.1	11.1	8.1	7.1
57.5°	3446.0	2392.3	115.8	58.4	34.2	24.2	16.1	11.1	8.1	5.0	4.0
60°	3801.6	2573.7	101.7	46.3	28.2	18.1	12.1	8.1	6.0	3.0	3.0
62.5°	4168.2	2786.2	83.6	36.3	22.2	14.1	9.1	6.0	4.0	1.0	1.0
65°	4677.9	2952.4	64.5	28.2	17.1	10.1	7.1	5.0	2.0	0.0	0.0
67.5°	4822.0	2870.8	47.3	22.2	12.1	7.1	5.0	3.0	1.0	0.0	0.0
69°	4677.9	2585.8	41.3	19.1	10.1	6.0	4.0	2.0	1.0	0.0	0.0
70°	4415.0	2364.1	36.3	16.1	9.1	6.0	3.0	2.0	1.0	0.0	0.0
72.5°	3692.8	1813.1	28.2	12.1	7.1	5.0	3.0	2.0	0.0	0.0	0.0
75°	2708.6	1120.1	21.2	9.1	6.0	4.0	3.0	2.0	0.0	0.0	0.0
77.5°	1451.5	409.0	15.1	6.0	4.0	3.0	3.0	2.0	0.0	0.0	0.0
80°	397.9	120.9	11.1	4.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0
82.5°	108.8	31.2	7.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	58.4	12.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.2	4.0	3.0	2.0	2.0	1.0	0.0	0.0	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)