

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: P479502

Luminaire Tested: **IFLD-M-SA4A-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479502  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

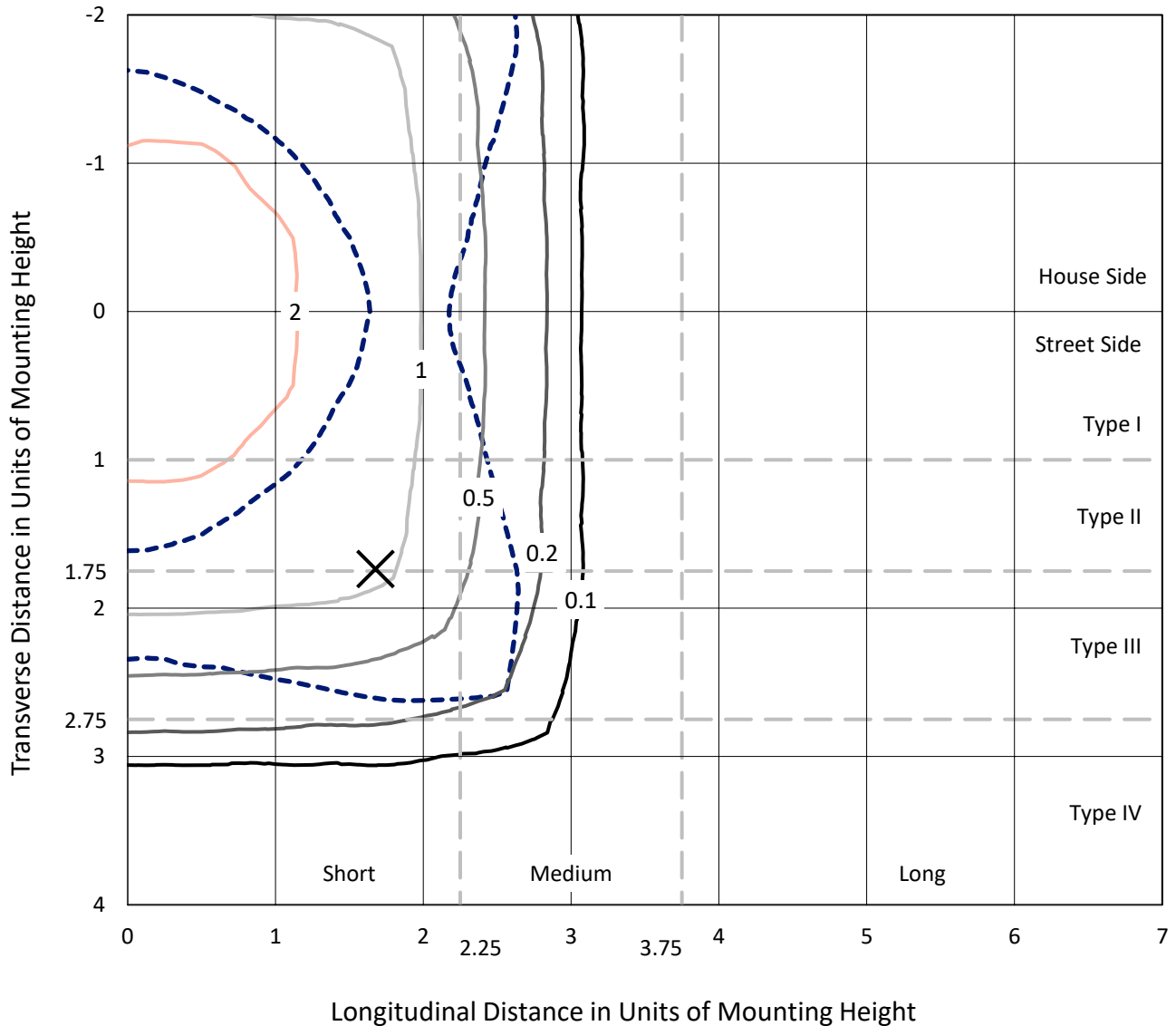
Lumens per Lamp: N/A  
Luminaire Lumens: 14812.2 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

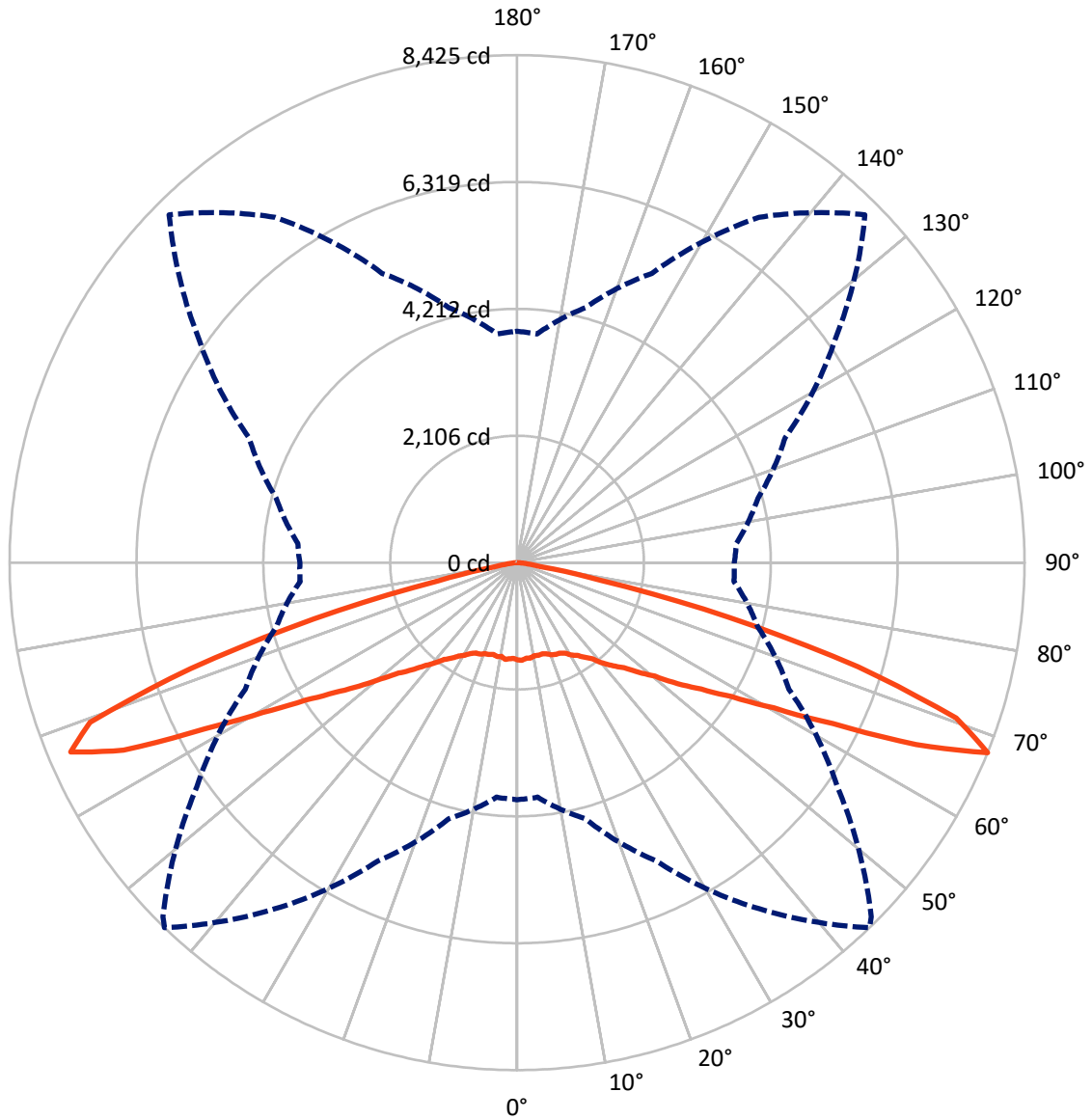
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

REPORT NUMBER: P479502  
CATALOG NUMBER: IFLD-M-SA4A-830-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479502

CATALOG NUMBER: IFLD-M-SA4A-830-U-5MQ

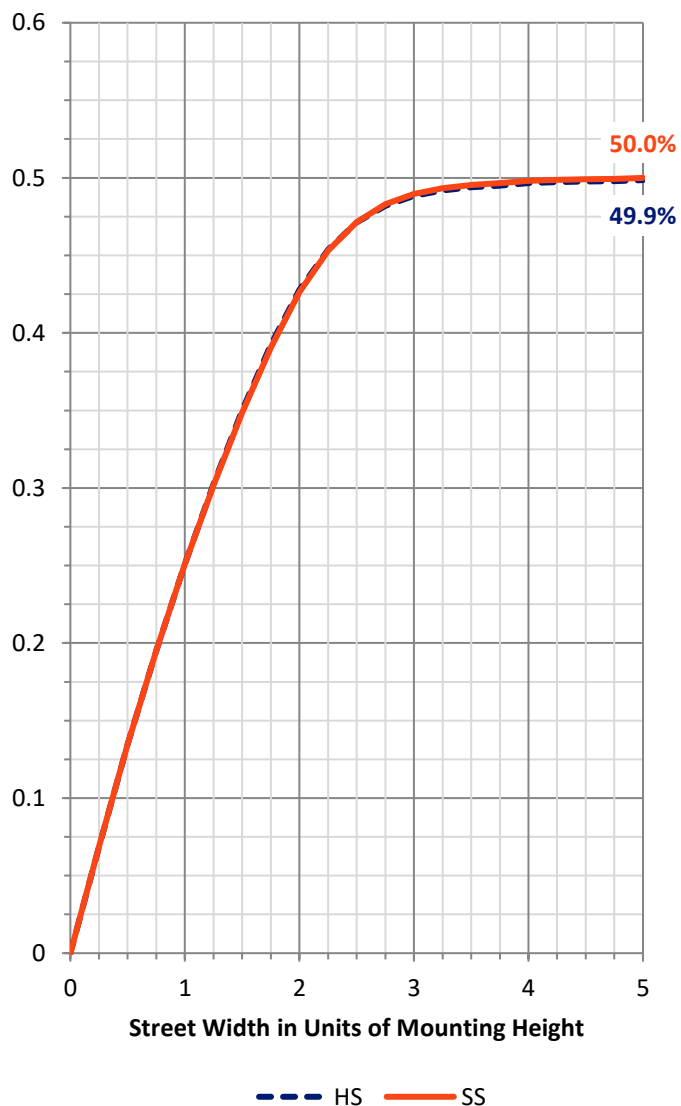
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7387.2	0.0	7387.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	7425.1	0.0	7425.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	14812.2	0.0	14812.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	1.0
10°-20°	447.3	3.0
20°-30°	760.7	5.1
30°-40°	1206.1	8.1
40°-50°	1966.6	13.3
50°-60°	3358.7	22.7
60°-70°	5108.5	34.5
70°-80°	1721.9	11.6
80°-90°	89.4	0.6
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°	14812.2	100.0
0°-180°	14812.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479502

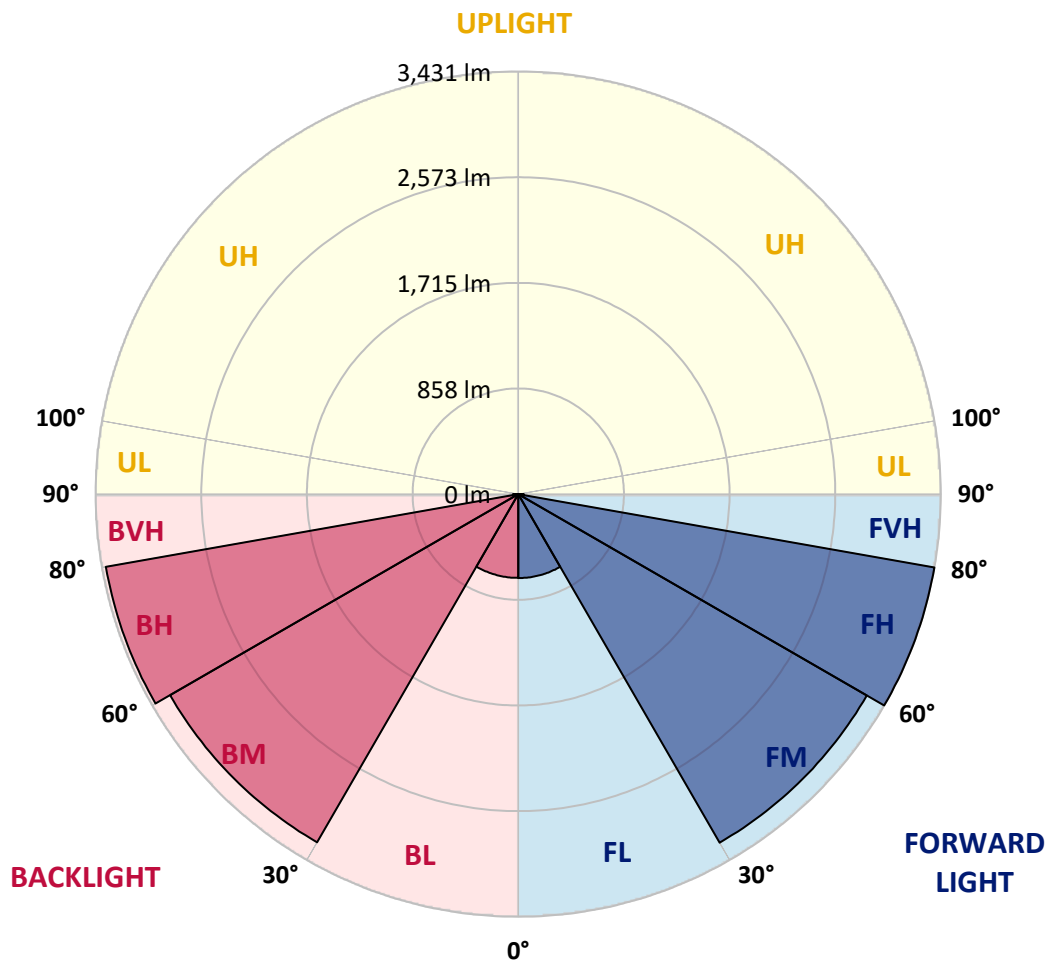
CATALOG NUMBER: IFLD-M-SA4A-830-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.2	4.6			
FM (30°-60°)	3267.4	22.1			
FH (60°-80°)	3430.7	23.2			G2/5000
FVH (80°-90°)	45.7	0.3			G1/100
BL (0°-30°)	679.8	4.6	B2/1000		
BM (30°-60°)	3263.9	22.0	B3/5000		
BH (60°-80°)	3399.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	43.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P479502

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0
2.5°	1580.8	1599.4	1612.9	1611.2	1616.3	1621.4	1614.6	1624.7	1618.0	1629.8	1636.6
5°	1611.2	1606.1	1607.8	1597.7	1621.4	1594.3	1594.3	1607.8	1624.7	1604.5	1616.3
7.5°	1592.6	1589.2	1580.8	1596.0	1601.1	1601.1	1614.6	1589.2	1618.0	1624.7	1626.4
10°	1572.3	1553.7	1579.1	1594.3	1597.7	1570.6	1582.5	1589.2	1580.8	1589.2	1594.3
12.5°	1555.4	1565.6	1565.6	1565.6	1560.5	1579.1	1590.9	1589.2	1572.3	1587.5	1560.5
15°	1553.7	1548.7	1563.9	1577.4	1569.0	1572.3	1577.4	1592.6	1560.5	1567.3	1567.3
17.5°	1552.0	1558.8	1563.9	1562.2	1590.9	1590.9	1585.9	1575.7	1601.1	1587.5	1569.0
20°	1558.8	1553.7	1567.3	1572.3	1592.6	1633.2	1618.0	1609.5	1596.0	1579.1	1579.1
22.5°	1567.3	1563.9	1582.5	1604.5	1643.3	1653.5	1651.8	1641.7	1618.0	1597.7	1594.3
25°	1597.7	1567.3	1587.5	1629.8	1643.3	1663.6	1677.2	1663.6	1631.5	1636.6	1606.1
27.5°	1643.3	1638.3	1665.3	1694.1	1682.2	1700.8	1689.0	1699.1	1700.8	1675.5	1645.0
30°	1697.4	1682.2	1699.1	1754.9	1760.0	1780.3	1760.0	1732.9	1741.4	1719.4	1704.2
32.5°	1775.2	1770.1	1802.3	1839.5	1846.2	1836.1	1825.9	1841.2	1805.6	1788.7	1761.7
35°	1825.9	1847.9	1886.8	1915.5	1937.5	1927.4	1932.4	1917.2	1925.7	1890.2	1878.3
37.5°	1976.4	1968.0	1976.4	2025.4	2030.5	2025.4	2030.5	2047.4	2035.6	2005.1	1974.7
40°	2118.4	2104.9	2125.2	2181.0	2177.6	2194.5	2160.7	2179.3	2179.3	2121.8	2110.0
42.5°	2224.9	2270.6	2294.3	2339.9	2356.8	2341.6	2334.8	2338.2	2375.4	2307.8	2282.4
45°	2444.7	2443.0	2514.0	2539.4	2492.1	2488.7	2475.2	2515.7	2541.1	2502.2	2492.1
47.5°	2683.1	2694.9	2735.5	2745.7	2774.4	2722.0	2722.0	2727.1	2816.7	2725.4	2678.0
50°	2897.8	2913.0	2994.2	3073.7	3019.6	2963.8	2985.7	3012.8	3061.8	2975.6	2935.0
52.5°	3158.2	3241.0	3295.1	3337.4	3376.3	3337.4	3286.7	3317.1	3413.5	3298.5	3247.8
55°	3533.5	3599.5	3650.2	3728.0	3760.1	3707.7	3702.6	3699.2	3753.3	3631.6	3562.3
57.5°	3952.8	3925.8	4006.9	4127.0	4243.6	4192.9	4177.7	4181.1	4194.6	4022.1	3969.7
60°	4473.5	4504.0	4600.3	4705.2	4828.6	4899.6	4799.8	4742.4	4754.2	4519.2	4438.0
62.5°	4771.1	4838.7	5056.8	5416.9	5665.5	5886.9	5902.2	5528.5	5278.3	4821.8	4476.9
65°	4627.4	4617.2	5028.1	5694.2	6635.9	7280.1	7183.7	6277.5	5403.4	4678.1	4214.9
67.5°	3935.9	3908.9	4405.9	5462.6	7018.0	8424.7	8314.8	6488.8	4980.7	4138.8	3614.7
70°	2536.0	2529.3	3068.6	4164.1	6265.7	7734.9	7775.4	5893.7	4054.3	3031.4	2512.4
72.5°	921.4	977.2	1290.0	2238.5	4255.4	5917.4	5942.7	4363.6	2331.4	1401.6	1033.0
75°	339.8	350.0	407.5	727.0	1939.2	3633.3	3728.0	2116.7	828.4	456.5	371.9
77.5°	196.1	197.8	218.1	270.5	574.8	1418.5	1476.0	642.5	321.2	243.5	224.9
80°	133.6	131.9	153.9	175.8	229.9	402.4	427.7	268.8	202.9	169.1	142.0
82.5°	77.8	82.8	113.3	125.1	140.3	177.5	180.9	167.4	152.2	125.1	93.0
85°	47.3	38.9	62.6	69.3	81.2	79.5	79.5	91.3	98.1	87.9	52.4
87.5°	11.8	11.8	15.2	16.9	22.0	16.9	18.6	35.5	47.3	44.0	27.1
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°	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0	1618.0
2.5°	1621.4	1616.3	1619.7	1638.3	1626.4	1590.9	1599.4	1618.0	1602.8	1594.3	1592.6
5°	1614.6	1624.7	1612.9	1616.3	1628.1	1599.4	1604.5	1628.1	1618.0	1621.4	1602.8
7.5°	1616.3	1621.4	1611.2	1596.0	1596.0	1619.7	1606.1	1609.5	1594.3	1619.7	1585.9
10°	1606.1	1592.6	1580.8	1589.2	1585.9	1579.1	1574.0	1584.2	1569.0	1590.9	1567.3
12.5°	1575.7	1579.1	1575.7	1572.3	1579.1	1596.0	1569.0	1572.3	1548.7	1552.0	1563.9
15°	1563.9	1574.0	1570.6	1589.2	1597.7	1572.3	1592.6	1572.3	1553.7	1543.6	1562.2
17.5°	1569.0	1584.2	1579.1	1592.6	1577.4	1596.0	1599.4	1590.9	1569.0	1560.5	1569.0
20°	1574.0	1569.0	1575.7	1599.4	1621.4	1602.8	1602.8	1597.7	1577.4	1565.6	1565.6
22.5°	1585.9	1577.4	1587.5	1606.1	1612.9	1641.7	1616.3	1604.5	1570.6	1540.2	1569.0
25°	1609.5	1614.6	1621.4	1614.6	1651.8	1648.4	1645.0	1636.6	1584.2	1585.9	1580.8
27.5°	1655.2	1626.4	1634.9	1675.5	1680.5	1694.1	1677.2	1692.4	1636.6	1638.3	1604.5
30°	1711.0	1680.5	1707.6	1743.1	1741.4	1766.8	1758.3	1761.7	1722.8	1700.8	1655.2
32.5°	1771.8	1768.5	1785.4	1807.3	1815.8	1829.3	1827.6	1827.6	1804.0	1746.5	1754.9
35°	1839.5	1863.1	1883.4	1907.1	1910.5	1927.4	1903.7	1907.1	1883.4	1841.2	1854.7
37.5°	1973.0	1971.3	1993.3	2022.1	2025.4	2011.9	2030.5	2022.1	1989.9	1961.2	1939.2
40°	2128.6	2094.8	2115.0	2182.7	2187.7	2164.1	2162.4	2160.7	2137.0	2074.5	2060.9
42.5°	2263.8	2307.8	2304.4	2326.4	2311.2	2299.3	2341.6	2317.9	2299.3	2233.4	2221.6
45°	2438.0	2451.5	2495.4	2566.5	2493.8	2493.8	2522.5	2503.9	2493.8	2444.7	2399.1
47.5°	2654.4	2666.2	2754.1	2759.2	2711.9	2679.7	2769.3	2772.7	2730.4	2693.3	2637.5
50°	2908.0	2913.0	2992.5	3073.7	3021.2	2960.4	3051.7	3087.2	2992.5	2941.8	2872.5
52.5°	3186.9	3171.7	3237.7	3389.8	3339.1	3320.5	3418.6	3427.0	3298.5	3219.1	3237.7
55°	3508.2	3487.9	3667.1	3770.2	3738.1	3704.3	3748.2	3768.5	3665.4	3535.2	3580.9
57.5°	3924.1	3934.2	4023.8	4125.3	4177.7	4186.1	4206.4	4186.1	4081.3	3949.4	3907.2
60°	4340.0	4370.4	4544.5	4735.6	4752.5	4901.3	4874.2	4772.8	4624.0	4436.3	4444.8
62.5°	4493.8	4468.5	4749.1	5215.7	5613.1	5885.3	5765.2	5405.1	5060.2	4718.7	4744.0
65°	4184.4	4247.0	4629.1	5359.5	6221.7	7298.7	6659.6	5663.8	4967.2	4526.0	4476.9
67.5°	3606.2	3653.6	4138.8	4909.7	6439.8	8167.7	6997.7	5298.6	4380.6	3809.1	3839.5
70°	2512.4	2536.0	3011.1	4022.1	5839.6	7707.8	6313.0	4069.5	3024.6	2410.9	2444.7
72.5°	1011.0	1068.5	1381.3	2422.7	4311.2	5856.5	4250.4	2135.3	1254.5	933.3	847.0
75°	373.6	375.3	441.3	833.5	2047.4	3680.6	1917.2	686.4	400.7	328.0	312.8
77.5°	216.4	214.7	229.9	300.9	593.4	1437.1	544.4	268.8	218.1	196.1	187.7
80°	135.3	133.6	157.2	199.5	260.4	393.9	229.9	167.4	147.1	126.8	126.8
82.5°	86.2	87.9	123.4	147.1	158.9	174.1	133.6	118.3	109.9	72.7	71.0
85°	55.8	50.7	86.2	98.1	87.9	77.8	74.4	62.6	57.5	35.5	38.9
87.5°	25.4	27.1	44.0	49.0	32.1	18.6	18.6	13.5	13.5	8.5	8.5
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)