

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: P479169

Luminaire Tested: **IFLD-S-SA2E-722-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479169  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-722-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

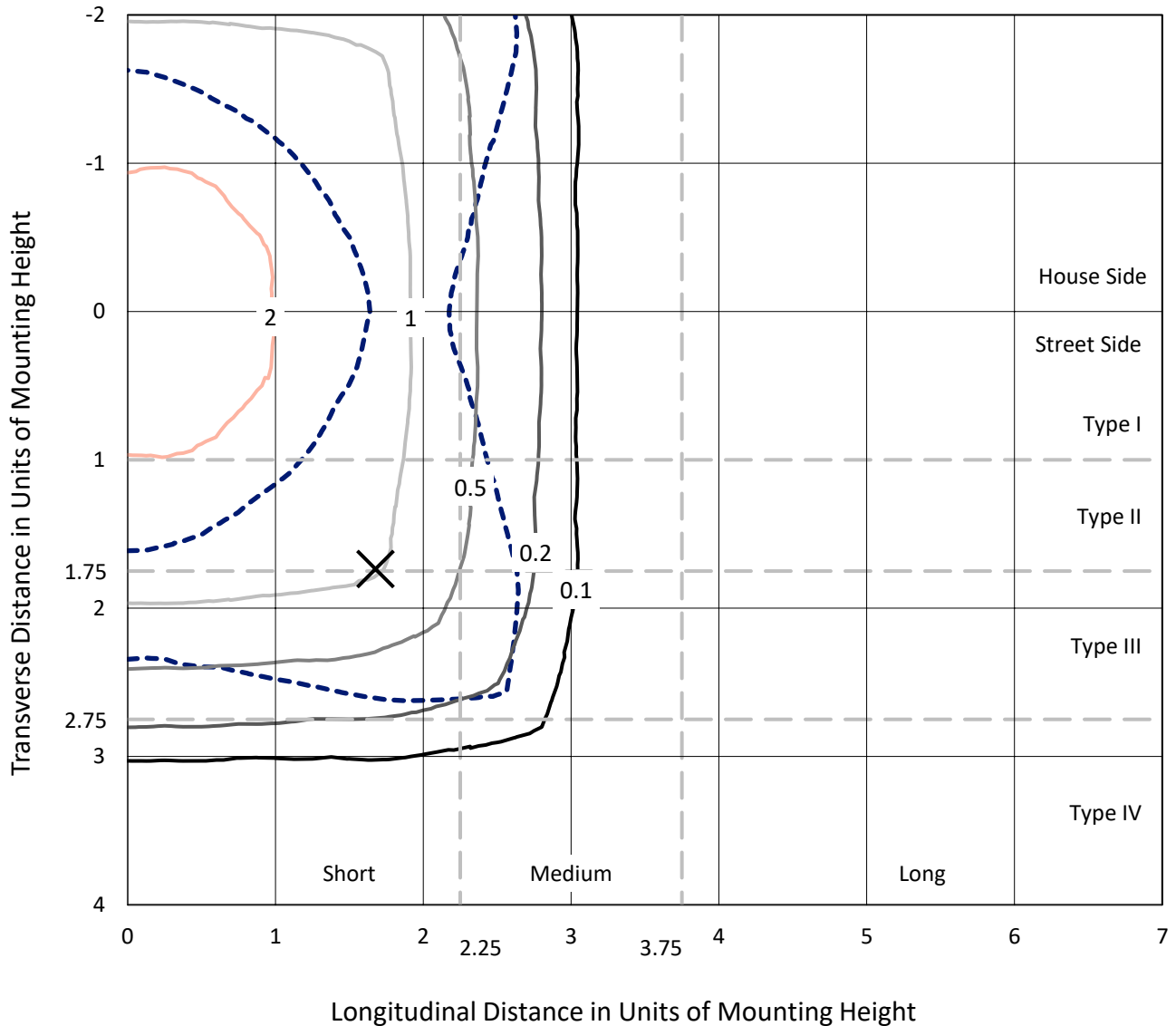
Lumens per Lamp: N/A  
Luminaire Lumens: 13457.4 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

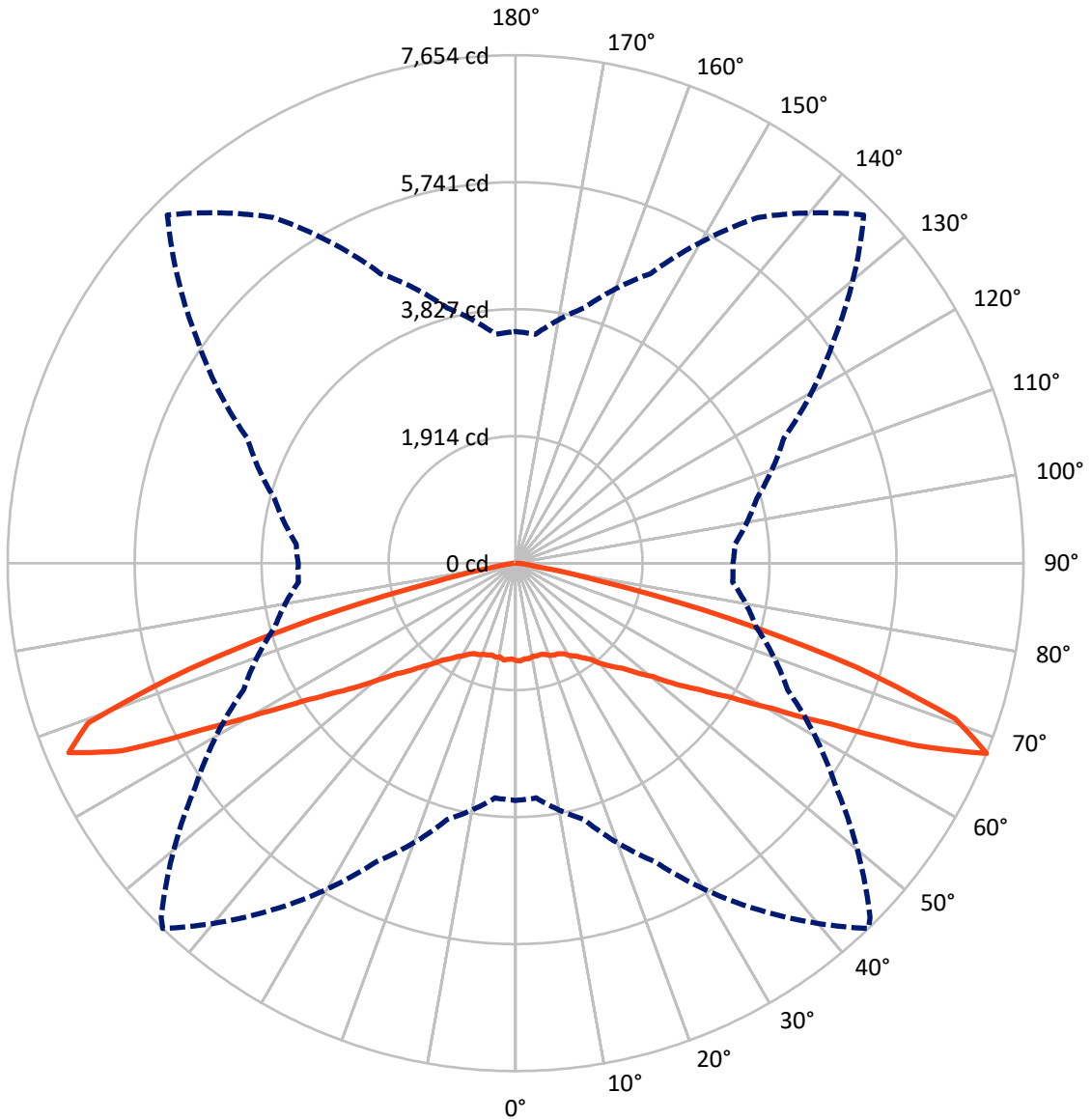
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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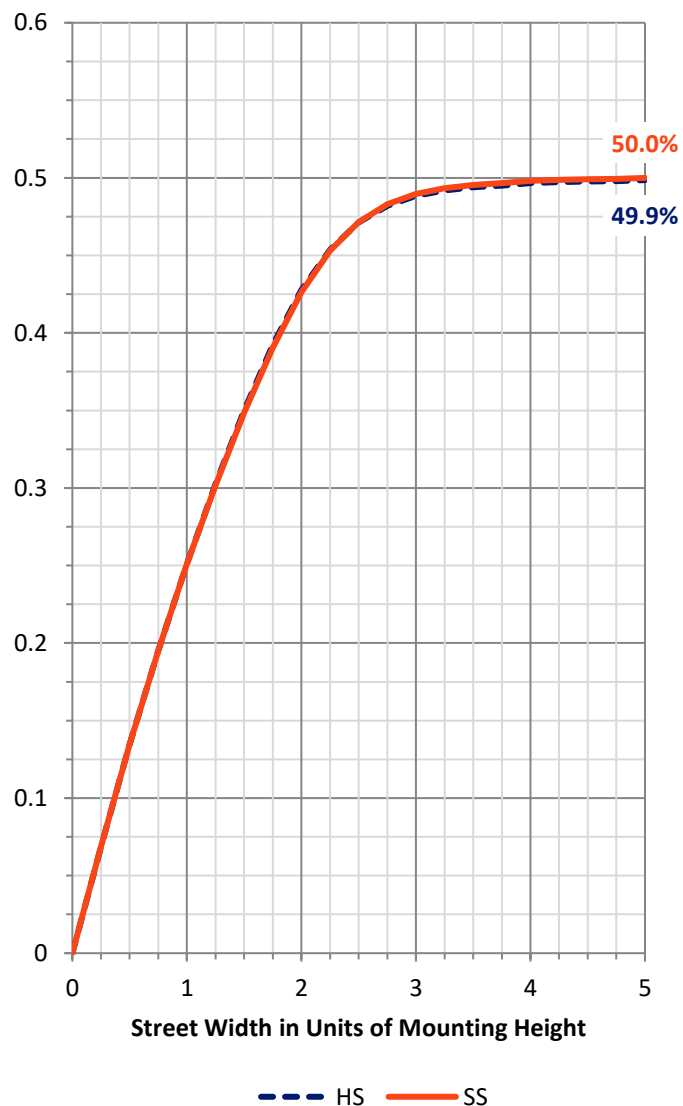
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6711.5	0.0	6711.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	6745.9	0.0	6745.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	13457.4	0.0	13457.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	1.0
10°-20°	406.4	3.0
20°-30°	691.1	5.1
30°-40°	1095.8	8.1
40°-50°	1786.7	13.3
50°-60°	3051.5	22.7
60°-70°	4641.3	34.5
70°-80°	1564.4	11.6
80°-90°	81.2	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°	13457.4	100.0
0°-180°	13457.4	100.0

**Coefficient of Utilization**



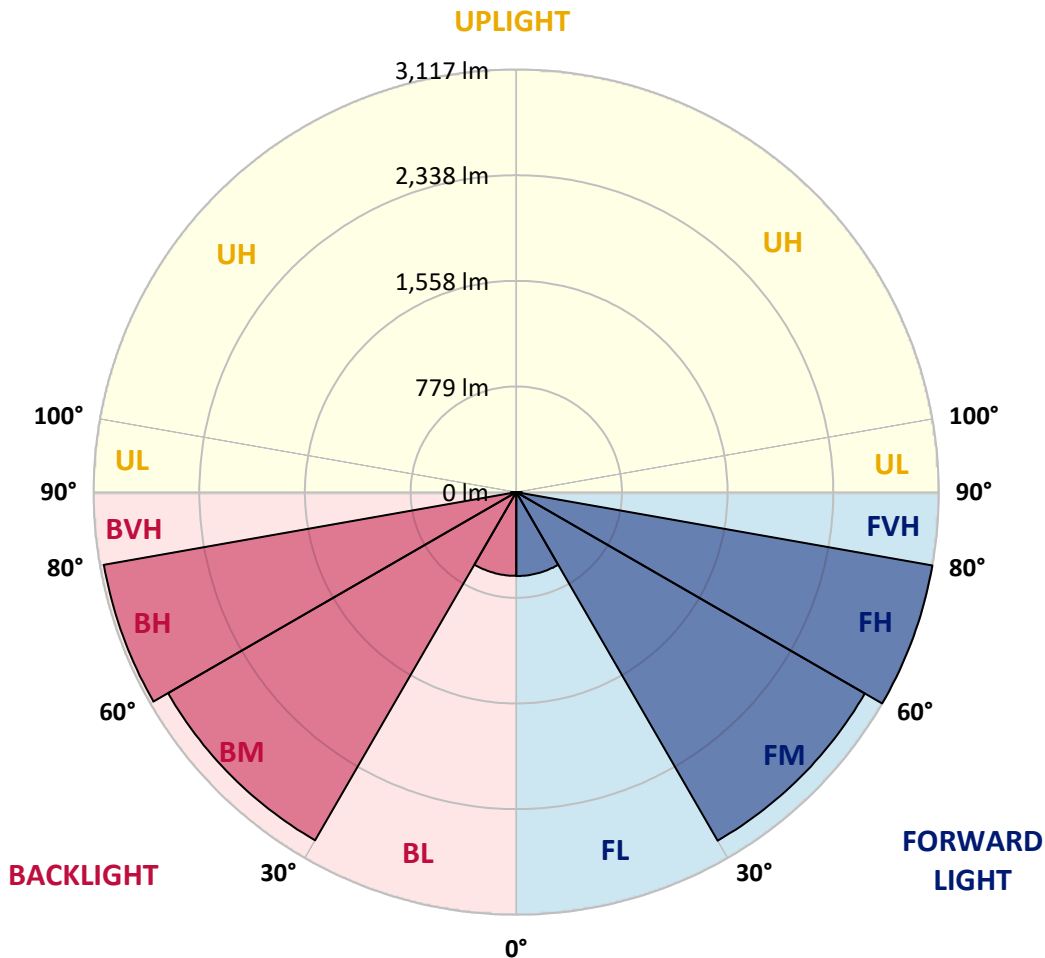
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.9	4.6			
FM (30°-60°)	2968.6	22.1			
FH (60°-80°)	3116.9	23.2			G2/5000
FVH (80°-90°)	41.6	0.3			G1/100
BL (0°-30°)	617.7	4.6	B2/1000		
BM (30°-60°)	2965.4	22.0	B3/5000		
BH (60°-80°)	3088.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	39.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0
2.5°	1436.2	1453.1	1465.4	1463.8	1468.5	1473.1	1466.9	1476.1	1470.0	1480.7	1486.9
5°	1463.8	1459.2	1460.8	1451.6	1473.1	1448.5	1448.5	1460.8	1476.1	1457.7	1468.5
7.5°	1447.0	1443.9	1436.2	1450.0	1454.6	1454.6	1466.9	1443.9	1470.0	1476.1	1477.7
10°	1428.5	1411.6	1434.7	1448.5	1451.6	1427.0	1437.7	1443.9	1436.2	1443.9	1448.5
12.5°	1413.2	1422.4	1422.4	1422.4	1417.8	1434.7	1445.4	1443.9	1428.5	1442.3	1417.8
15°	1411.6	1407.0	1420.8	1433.1	1425.4	1428.5	1433.1	1447.0	1417.8	1423.9	1423.9
17.5°	1410.1	1416.2	1420.8	1419.3	1445.4	1445.4	1440.8	1431.6	1454.6	1442.3	1425.4
20°	1416.2	1411.6	1423.9	1428.5	1447.0	1483.8	1470.0	1462.3	1450.0	1434.7	1434.7
22.5°	1423.9	1420.8	1437.7	1457.7	1493.0	1502.2	1500.7	1491.5	1470.0	1451.6	1448.5
25°	1451.6	1423.9	1442.3	1480.7	1493.0	1511.5	1523.8	1511.5	1482.3	1486.9	1459.2
27.5°	1493.0	1488.4	1513.0	1539.1	1528.4	1545.3	1534.5	1543.7	1545.3	1522.2	1494.6
30°	1542.2	1528.4	1543.7	1594.4	1599.0	1617.5	1599.0	1574.4	1582.1	1562.2	1548.3
32.5°	1612.8	1608.2	1637.4	1671.2	1677.4	1668.1	1658.9	1672.7	1640.5	1625.1	1600.6
35°	1658.9	1678.9	1714.2	1740.3	1760.3	1751.1	1755.7	1741.9	1749.6	1717.3	1706.5
37.5°	1795.6	1788.0	1795.6	1840.2	1844.8	1840.2	1844.8	1860.1	1849.4	1821.7	1794.1
40°	1924.7	1912.4	1930.8	1981.5	1978.4	1993.8	1963.1	1980.0	1980.0	1927.7	1917.0
42.5°	2021.4	2062.9	2084.4	2125.9	2141.2	2127.4	2121.3	2124.3	2158.1	2096.7	2073.7
45°	2221.1	2219.6	2284.1	2307.1	2264.1	2261.1	2248.8	2285.6	2308.7	2273.3	2264.1
47.5°	2437.7	2448.5	2485.3	2494.5	2520.6	2473.0	2473.0	2477.6	2559.0	2476.1	2433.1
50°	2632.8	2646.6	2720.3	2792.5	2743.4	2692.7	2712.7	2737.2	2781.8	2703.4	2666.6
52.5°	2869.3	2944.6	2993.7	3032.1	3067.5	3032.1	2986.1	3013.7	3101.3	2996.8	2950.7
55°	3210.3	3270.2	3316.3	3387.0	3416.2	3368.5	3363.9	3360.9	3410.0	3299.4	3236.4
57.5°	3591.3	3566.7	3640.4	3749.5	3855.5	3809.4	3795.6	3798.6	3810.9	3654.2	3606.6
60°	4064.4	4092.0	4179.6	4274.8	4386.9	4451.4	4360.8	4308.6	4319.4	4105.8	4032.1
62.5°	4334.7	4396.2	4594.3	4921.5	5147.3	5348.5	5362.3	5022.9	4795.5	4380.8	4067.4
65°	4204.1	4194.9	4568.2	5173.4	6029.0	6614.2	6526.6	5703.3	4909.2	4250.2	3829.4
67.5°	3575.9	3551.3	4002.9	4963.0	6376.1	7654.1	7554.3	5895.3	4525.2	3760.2	3284.1
70°	2304.1	2297.9	2787.9	3783.3	5692.6	7027.4	7064.3	5354.6	3683.4	2754.1	2282.6
72.5°	837.1	887.8	1172.0	2033.7	3866.2	5376.1	5399.2	3964.5	2118.2	1273.4	938.5
75°	308.7	318.0	370.2	660.5	1761.8	3301.0	3387.0	1923.1	752.7	414.7	337.9
77.5°	178.2	179.7	198.1	245.8	522.3	1288.7	1341.0	583.7	291.8	221.2	204.3
80°	121.3	119.8	139.8	159.7	208.9	365.6	388.6	244.2	184.3	153.6	129.0
82.5°	70.7	75.3	102.9	113.7	127.5	161.3	164.4	152.1	138.2	113.7	84.5
85°	43.0	35.3	56.8	63.0	73.7	72.2	72.2	82.9	89.1	79.9	47.6
87.5°	10.8	10.8	13.8	15.4	20.0	15.4	16.9	32.3	43.0	39.9	24.6
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°	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0	1470.0
2.5°	1473.1	1468.5	1471.5	1488.4	1477.7	1445.4	1453.1	1470.0	1456.2	1448.5	1447.0
5°	1466.9	1476.1	1465.4	1468.5	1479.2	1453.1	1457.7	1479.2	1470.0	1473.1	1456.2
7.5°	1468.5	1473.1	1463.8	1450.0	1450.0	1471.5	1459.2	1462.3	1448.5	1471.5	1440.8
10°	1459.2	1447.0	1436.2	1443.9	1440.8	1434.7	1430.1	1439.3	1425.4	1445.4	1423.9
12.5°	1431.6	1434.7	1431.6	1428.5	1434.7	1450.0	1425.4	1428.5	1407.0	1410.1	1420.8
15°	1420.8	1430.1	1427.0	1443.9	1451.6	1428.5	1447.0	1428.5	1411.6	1402.4	1419.3
17.5°	1425.4	1439.3	1434.7	1447.0	1433.1	1450.0	1453.1	1445.4	1425.4	1417.8	1425.4
20°	1430.1	1425.4	1431.6	1453.1	1473.1	1456.2	1456.2	1451.6	1433.1	1422.4	1422.4
22.5°	1440.8	1433.1	1442.3	1459.2	1465.4	1491.5	1468.5	1457.7	1427.0	1399.3	1425.4
25°	1462.3	1466.9	1473.1	1466.9	1500.7	1497.6	1494.6	1486.9	1439.3	1440.8	1436.2
27.5°	1503.8	1477.7	1485.4	1522.2	1526.8	1539.1	1523.8	1537.6	1486.9	1488.4	1457.7
30°	1554.5	1526.8	1551.4	1583.7	1582.1	1605.2	1597.5	1600.6	1565.2	1545.3	1503.8
32.5°	1609.8	1606.7	1622.1	1642.0	1649.7	1662.0	1660.5	1660.5	1639.0	1586.7	1594.4
35°	1671.2	1692.7	1711.2	1732.7	1735.7	1751.1	1729.6	1732.7	1711.2	1672.7	1685.0
37.5°	1792.6	1791.0	1811.0	1837.1	1840.2	1827.9	1844.8	1837.1	1807.9	1781.8	1761.8
40°	1933.9	1903.2	1921.6	1983.0	1987.6	1966.1	1964.6	1963.1	1941.6	1884.7	1872.4
42.5°	2056.8	2096.7	2093.6	2113.6	2099.8	2089.0	2127.4	2105.9	2089.0	2029.1	2018.4
45°	2215.0	2227.3	2267.2	2331.7	2265.7	2265.7	2291.8	2274.9	2265.7	2221.1	2179.6
47.5°	2411.6	2422.3	2502.2	2506.8	2463.8	2434.6	2516.0	2519.1	2480.7	2446.9	2396.2
50°	2642.0	2646.6	2718.8	2792.5	2744.9	2689.6	2772.6	2804.8	2718.8	2672.7	2609.7
52.5°	2895.4	2881.6	2941.5	3079.8	3033.7	3016.8	3105.9	3113.6	2996.8	2924.6	2941.5
55°	3187.3	3168.9	3331.7	3425.4	3396.2	3365.5	3405.4	3423.8	3330.1	3211.9	3253.3
57.5°	3565.2	3574.4	3655.8	3747.9	3795.6	3803.2	3821.7	3803.2	3708.0	3588.2	3549.8
60°	3943.0	3970.7	4128.9	4302.5	4317.8	4453.0	4428.4	4336.2	4201.1	4030.6	4038.3
62.5°	4082.8	4059.8	4314.7	4738.7	5099.7	5347.0	5237.9	4910.7	4597.4	4287.1	4310.1
65°	3801.7	3858.5	4205.7	4869.3	5652.6	6631.1	6050.5	5145.7	4512.9	4112.0	4067.4
67.5°	3276.4	3319.4	3760.2	4460.7	5850.8	7420.6	6357.7	4814.0	3979.9	3460.7	3488.4
70°	2282.6	2304.1	2735.7	3654.2	5305.5	7002.8	5735.6	3697.3	2748.0	2190.4	2221.1
72.5°	918.6	970.8	1254.9	2201.1	3916.9	5320.8	3861.6	1940.0	1139.7	847.9	769.6
75°	339.5	341.0	400.9	757.3	1860.1	3344.0	1741.9	623.6	364.0	298.0	284.2
77.5°	196.6	195.1	208.9	273.4	539.2	1305.6	494.6	244.2	198.1	178.2	170.5
80°	122.9	121.3	142.9	181.3	236.6	357.9	208.9	152.1	133.6	115.2	115.2
82.5°	78.3	79.9	112.1	133.6	144.4	158.2	121.3	107.5	99.8	66.0	64.5
85°	50.7	46.1	78.3	89.1	79.9	70.7	67.6	56.8	52.2	32.3	35.3
87.5°	23.0	24.6	39.9	44.5	29.2	16.9	16.9	12.3	12.3	7.7	7.7
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)