

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: P479284

Luminaire Tested: **IFLD-S-SA2C-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479284  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

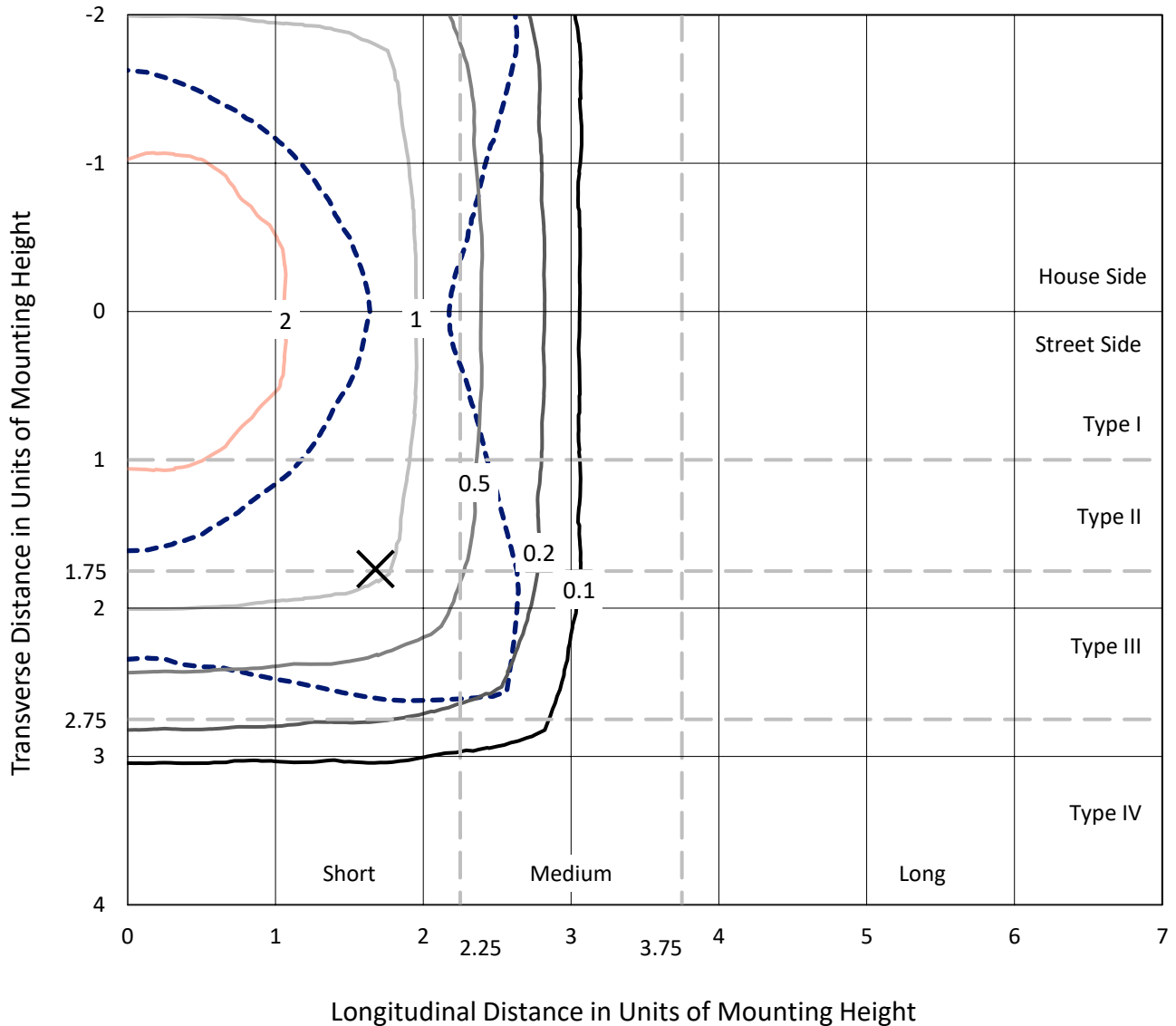
Lumens per Lamp: N/A  
Luminaire Lumens: 14150.6 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 108.2  
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

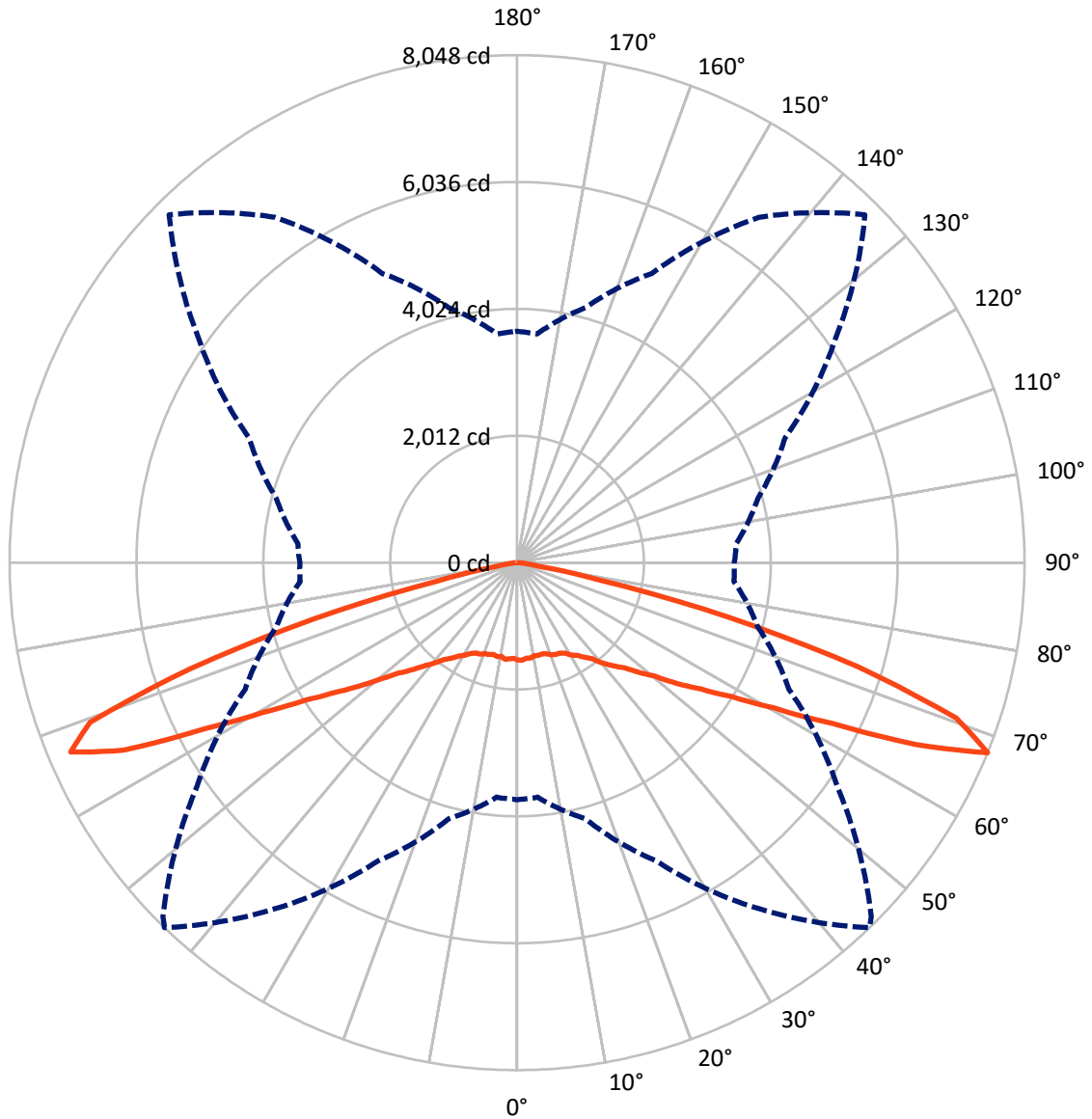
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	7057.2	0.0	7057.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	7093.4	0.0	7093.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	14150.6	0.0	14150.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	1.0
10°-20°	427.3	3.0
20°-30°	726.7	5.1
30°-40°	1152.2	8.1
40°-50°	1878.8	13.3
50°-60°	3208.7	22.7
60°-70°	4880.3	34.5
70°-80°	1645.0	11.6
80°-90°	85.4	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°	14150.6	100.0
0°-180°	14150.6	100.0

**Coefficient of Utilization**



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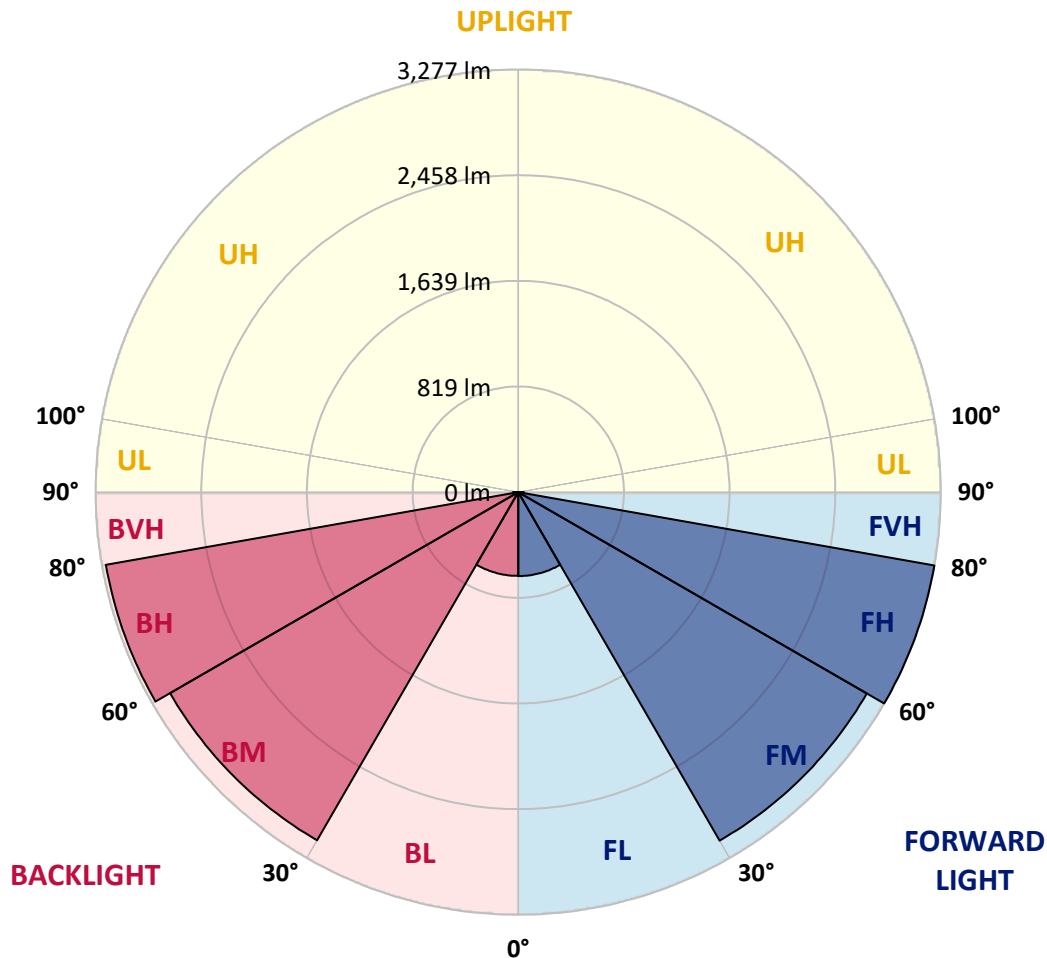
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.8	4.6			
FM (30°-60°)	3121.5	22.1			
FH (60°-80°)	3277.4	23.2			G2/5000
FVH (80°-90°)	43.7	0.3			G1/100
BL (0°-30°)	649.5	4.6	B2/1000		
BM (30°-60°)	3118.1	22.0	B3/5000		
BH (60°-80°)	3247.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	41.7	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°	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7
2.5°	1510.2	1527.9	1540.9	1539.2	1544.1	1548.9	1542.5	1552.2	1545.7	1557.0	1563.5
5°	1539.2	1534.4	1536.0	1526.3	1548.9	1523.1	1523.1	1536.0	1552.2	1532.8	1544.1
7.5°	1521.5	1518.2	1510.2	1524.7	1529.6	1529.6	1542.5	1518.2	1545.7	1552.2	1553.8
10°	1502.1	1484.3	1508.6	1523.1	1526.3	1500.5	1511.8	1518.2	1510.2	1518.2	1523.1
12.5°	1485.9	1495.6	1495.6	1495.6	1490.8	1508.6	1519.9	1518.2	1502.1	1516.6	1490.8
15°	1484.3	1479.5	1494.0	1506.9	1498.9	1502.1	1506.9	1521.5	1490.8	1497.3	1497.3
17.5°	1482.7	1489.2	1494.0	1492.4	1519.9	1519.9	1515.0	1505.3	1529.6	1516.6	1498.9
20°	1489.2	1484.3	1497.3	1502.1	1521.5	1560.2	1545.7	1537.6	1524.7	1508.6	1508.6
22.5°	1497.3	1494.0	1511.8	1532.8	1569.9	1579.6	1578.0	1568.3	1545.7	1526.3	1523.1
25°	1526.3	1497.3	1516.6	1557.0	1569.9	1589.3	1602.2	1589.3	1558.6	1563.5	1534.4
27.5°	1569.9	1565.1	1590.9	1618.4	1607.1	1624.8	1613.5	1623.2	1624.8	1600.6	1571.5
30°	1621.6	1607.1	1623.2	1676.5	1681.4	1700.8	1681.4	1655.5	1663.6	1642.6	1628.1
32.5°	1695.9	1691.1	1721.8	1757.3	1763.8	1754.1	1744.4	1758.9	1725.0	1708.8	1683.0
35°	1744.4	1765.4	1802.5	1830.0	1851.0	1841.3	1846.1	1831.6	1839.7	1805.7	1794.4
37.5°	1888.1	1880.0	1888.1	1935.0	1939.8	1935.0	1939.8	1956.0	1944.7	1915.6	1886.5
40°	2023.8	2010.9	2030.3	2083.6	2080.3	2096.5	2064.2	2081.9	2081.9	2027.0	2015.7
42.5°	2125.5	2169.2	2191.8	2235.4	2251.5	2237.0	2230.5	2233.8	2269.3	2204.7	2180.5
45°	2335.5	2333.9	2401.7	2426.0	2380.7	2377.5	2364.6	2403.4	2427.6	2390.4	2380.7
47.5°	2563.3	2574.6	2613.3	2623.0	2650.5	2600.4	2600.4	2605.3	2690.9	2603.6	2558.4
50°	2768.4	2782.9	2860.4	2936.4	2884.7	2831.4	2852.4	2878.2	2925.1	2842.7	2803.9
52.5°	3017.1	3096.3	3147.9	3188.3	3225.5	3188.3	3139.9	3168.9	3261.0	3151.2	3102.7
55°	3375.7	3438.7	3487.1	3561.4	3592.1	3542.0	3537.2	3534.0	3585.7	3469.4	3403.1
57.5°	3776.2	3750.4	3827.9	3942.6	4054.0	4005.6	3991.1	3994.3	4007.2	3842.5	3792.4
60°	4273.7	4302.8	4394.8	4495.0	4612.9	4680.7	4585.4	4530.5	4541.8	4317.3	4239.8
62.5°	4558.0	4622.6	4830.9	5175.0	5412.4	5624.0	5638.5	5281.6	5042.5	4606.4	4276.9
65°	4420.7	4411.0	4803.5	5439.9	6339.5	6954.9	6862.8	5997.1	5162.0	4469.1	4026.6
67.5°	3760.1	3734.2	4209.1	5218.6	6704.5	8048.3	7943.3	6199.0	4758.3	3953.9	3453.2
70°	2422.7	2416.3	2931.5	3978.1	5985.8	7389.3	7428.1	5630.4	3873.1	2896.0	2400.1
72.5°	880.3	933.6	1232.4	2138.5	4065.4	5653.1	5677.3	4168.7	2227.3	1339.0	986.9
75°	324.6	334.3	389.3	694.5	1852.6	3471.0	3561.4	2022.2	791.4	436.1	355.3
77.5°	187.4	189.0	208.4	258.4	549.2	1355.1	1410.0	613.8	306.9	232.6	214.8
80°	127.6	126.0	147.0	168.0	219.7	384.4	408.6	256.8	193.8	161.5	135.7
82.5°	74.3	79.1	108.2	119.5	134.1	169.6	172.8	159.9	145.4	119.5	88.8
85°	45.2	37.1	59.8	66.2	77.5	75.9	75.9	87.2	93.7	84.0	50.1
87.5°	11.3	11.3	14.5	16.2	21.0	16.2	17.8	33.9	45.2	42.0	25.8
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°	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7
2.5°	1548.9	1544.1	1547.3	1565.1	1553.8	1519.9	1527.9	1545.7	1531.2	1523.1	1521.5
5°	1542.5	1552.2	1540.9	1544.1	1555.4	1527.9	1532.8	1555.4	1545.7	1548.9	1531.2
7.5°	1544.1	1548.9	1539.2	1524.7	1524.7	1547.3	1534.4	1537.6	1523.1	1547.3	1515.0
10°	1534.4	1521.5	1510.2	1518.2	1515.0	1508.6	1503.7	1513.4	1498.9	1519.9	1497.3
12.5°	1505.3	1508.6	1505.3	1502.1	1508.6	1524.7	1498.9	1502.1	1479.5	1482.7	1494.0
15°	1494.0	1503.7	1500.5	1518.2	1526.3	1502.1	1521.5	1502.1	1484.3	1474.6	1492.4
17.5°	1498.9	1513.4	1508.6	1521.5	1506.9	1524.7	1527.9	1519.9	1498.9	1490.8	1498.9
20°	1503.7	1498.9	1505.3	1527.9	1548.9	1531.2	1531.2	1526.3	1506.9	1495.6	1495.6
22.5°	1515.0	1506.9	1516.6	1534.4	1540.9	1568.3	1544.1	1532.8	1500.5	1471.4	1498.9
25°	1537.6	1542.5	1548.9	1542.5	1578.0	1574.8	1571.5	1563.5	1513.4	1515.0	1510.2
27.5°	1581.2	1553.8	1561.9	1600.6	1605.5	1618.4	1602.2	1616.8	1563.5	1565.1	1532.8
30°	1634.5	1605.5	1631.3	1665.2	1663.6	1687.8	1679.8	1683.0	1645.8	1624.8	1581.2
32.5°	1692.7	1689.5	1705.6	1726.6	1734.7	1747.6	1746.0	1746.0	1723.4	1668.5	1676.5
35°	1757.3	1779.9	1799.3	1821.9	1825.1	1841.3	1818.7	1821.9	1799.3	1758.9	1771.8
37.5°	1884.9	1883.3	1904.3	1931.7	1935.0	1922.0	1939.8	1931.7	1901.0	1873.6	1852.6
40°	2033.5	2001.2	2020.6	2085.2	2090.0	2067.4	2065.8	2064.2	2041.6	1981.8	1968.9
42.5°	2162.7	2204.7	2201.5	2222.5	2207.9	2196.6	2237.0	2214.4	2196.6	2133.6	2122.3
45°	2329.1	2342.0	2384.0	2451.8	2382.4	2382.4	2409.8	2392.0	2382.4	2335.5	2291.9
47.5°	2535.8	2547.1	2631.1	2635.9	2590.7	2560.0	2645.6	2648.9	2608.5	2572.9	2519.6
50°	2778.1	2782.9	2858.8	2936.4	2886.3	2828.1	2915.4	2949.3	2858.8	2810.4	2744.2
52.5°	3044.6	3030.0	3093.0	3238.4	3189.9	3172.2	3265.8	3273.9	3151.2	3075.3	3093.0
55°	3351.5	3332.1	3503.3	3601.8	3571.1	3538.8	3580.8	3600.2	3501.7	3377.3	3420.9
57.5°	3748.8	3758.5	3844.1	3941.0	3991.1	3999.1	4018.5	3999.1	3899.0	3773.0	3732.6
60°	4146.1	4175.2	4341.5	4524.1	4540.2	4682.3	4656.5	4559.6	4417.5	4238.2	4246.3
62.5°	4293.1	4268.9	4537.0	4982.8	5362.3	5622.4	5507.7	5163.7	4834.2	4507.9	4532.1
65°	3997.5	4057.3	4422.3	5120.1	5943.8	6972.6	6362.1	5410.8	4745.3	4323.8	4276.9
67.5°	3445.1	3490.4	3953.9	4690.4	6152.1	7802.8	6685.1	5061.9	4184.9	3639.0	3668.0
70°	2400.1	2422.7	2876.6	3842.5	5578.8	7363.5	6031.0	3887.7	2889.5	2303.2	2335.5
72.5°	965.9	1020.8	1319.6	2314.5	4118.7	5594.9	4060.5	2039.9	1198.4	891.6	809.2
75°	356.9	358.6	421.6	796.3	1956.0	3516.2	1831.6	655.8	382.8	313.3	298.8
77.5°	206.7	205.1	219.7	287.5	566.9	1372.9	520.1	256.8	208.4	187.4	179.3
80°	129.2	127.6	150.2	190.6	248.7	376.3	219.7	159.9	140.5	121.1	121.1
82.5°	82.4	84.0	117.9	140.5	151.8	166.4	127.6	113.1	105.0	69.5	67.8
85°	53.3	48.5	82.4	93.7	84.0	74.3	71.1	59.8	54.9	33.9	37.1
87.5°	24.2	25.8	42.0	46.8	30.7	17.8	17.8	12.9	12.9	8.1	8.1
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)