

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: P479365

Luminaire Tested: **IFLD-S-SA3A-750-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479365  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-750-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

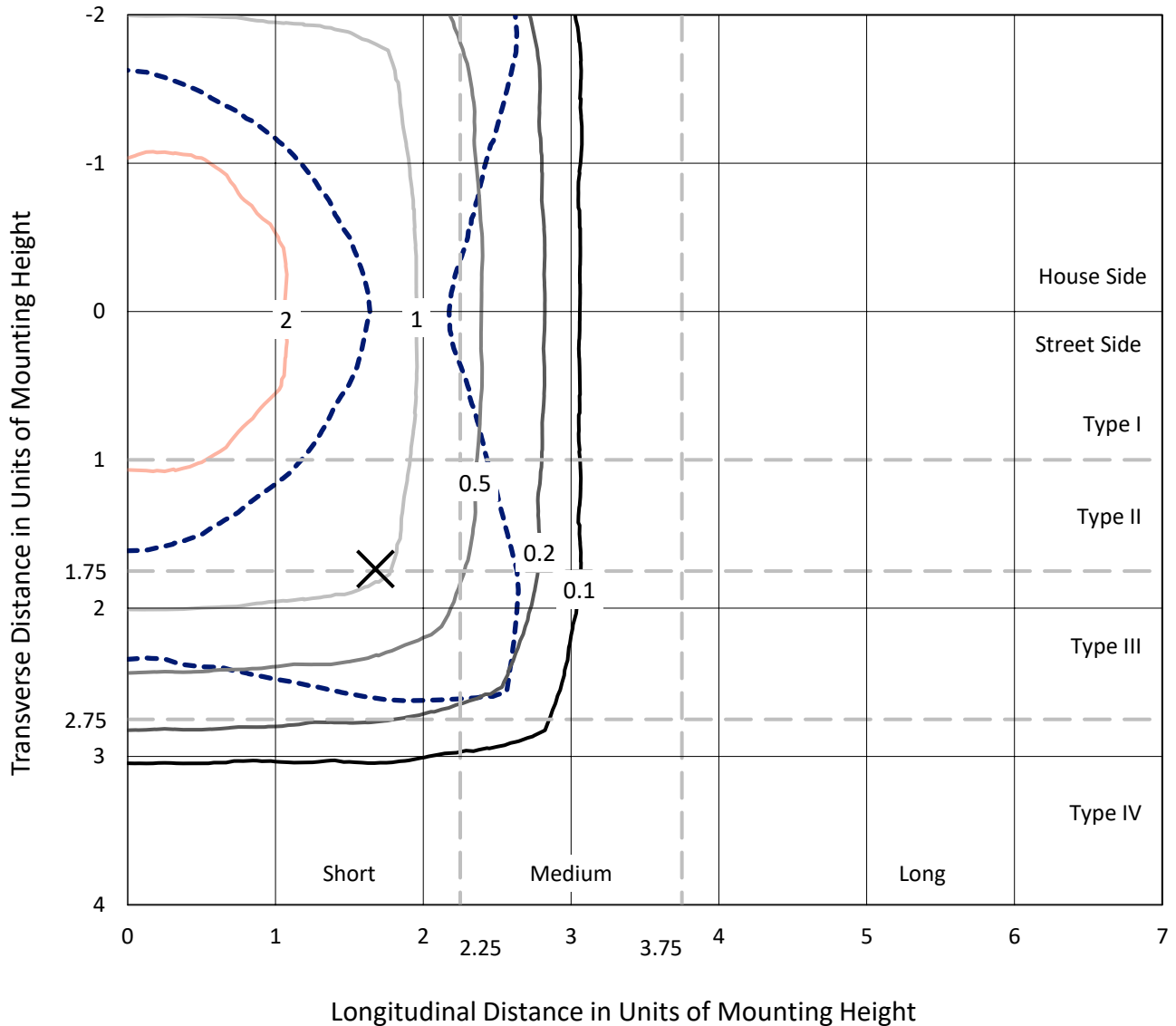
Lumens per Lamp: N/A  
Luminaire Lumens: 14206 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 94.8  
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

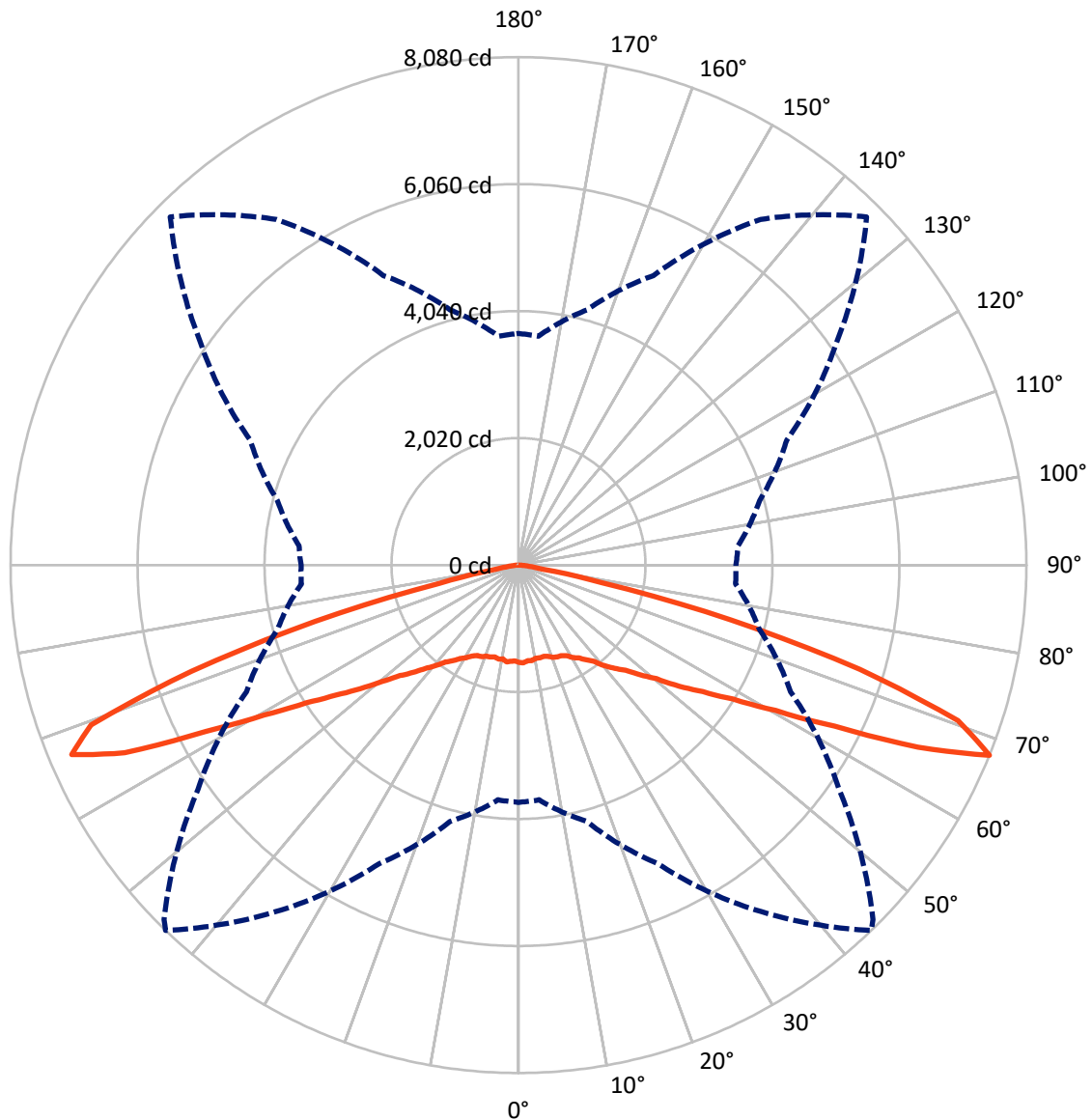
× Max cd  
 - - - 1/2 Max cd



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	7084.8	0.0	7084.8
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	7121.2	0.0	7121.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	14206.0	0.0	14206.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	1.0
10°-20°	429.0	3.0
20°-30°	729.5	5.1
30°-40°	1156.7	8.1
40°-50°	1886.1	13.3
50°-60°	3221.2	22.7
60°-70°	4899.4	34.5
70°-80°	1651.4	11.6
80°-90°	85.7	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°	14206.0	100.0
0°-180°	14206.0	100.0

**Coefficient of Utilization**



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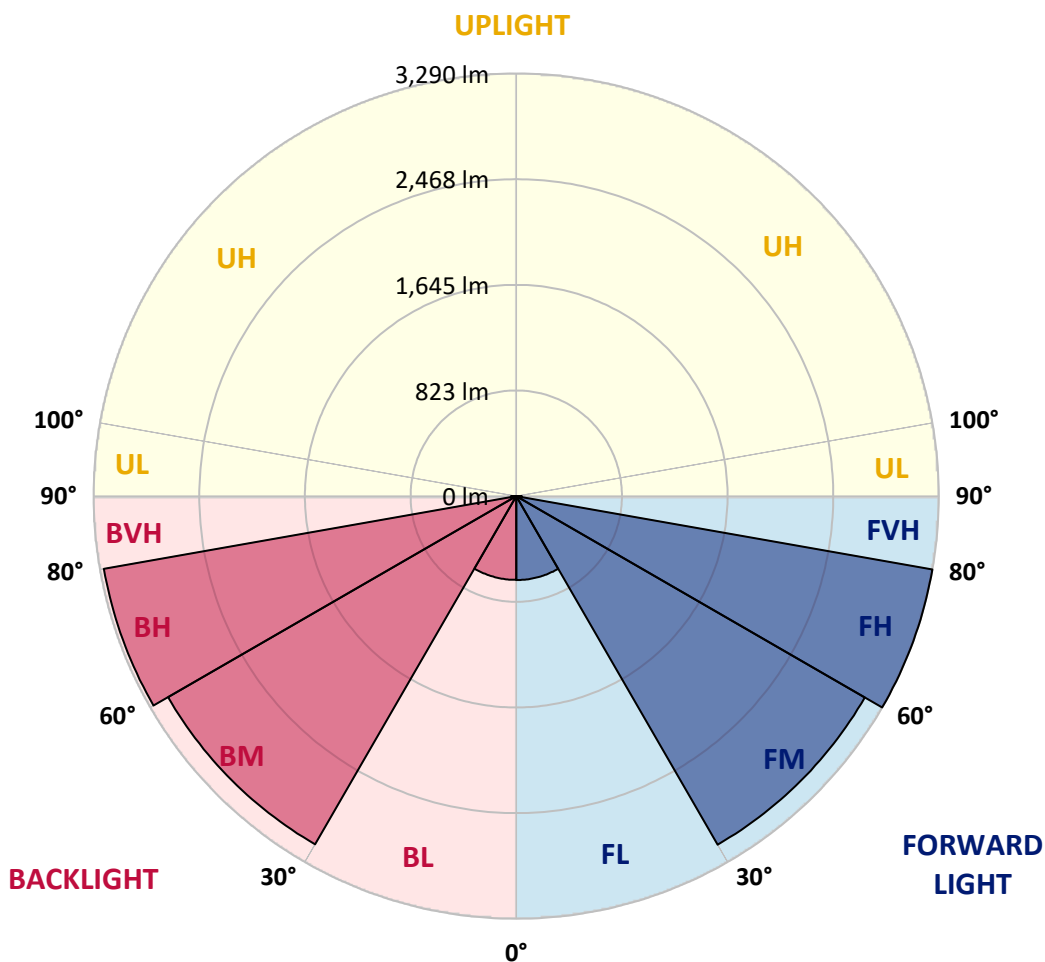
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.4	4.6			
FM (30°-60°)	3133.7	22.1			
FH (60°-80°)	3290.3	23.2			G2/5000
FVH (80°-90°)	43.9	0.3			G1/100
BL (0°-30°)	652.0	4.6	B2/1000		
BM (30°-60°)	3130.3	22.0	B3/5000		
BH (60°-80°)	3260.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	41.9	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°	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8
2.5°	1516.1	1533.9	1546.9	1545.3	1550.1	1555.0	1548.5	1558.2	1551.8	1563.1	1569.6
5°	1545.3	1540.4	1542.0	1532.3	1555.0	1529.1	1529.1	1542.0	1558.2	1538.8	1550.1
7.5°	1527.4	1524.2	1516.1	1530.7	1535.5	1535.5	1548.5	1524.2	1551.8	1558.2	1559.9
10°	1508.0	1490.1	1514.5	1529.1	1532.3	1506.4	1517.7	1524.2	1516.1	1524.2	1529.1
12.5°	1491.8	1501.5	1501.5	1501.5	1496.6	1514.5	1525.8	1524.2	1508.0	1522.6	1496.6
15°	1490.1	1485.3	1499.9	1512.8	1504.7	1508.0	1512.8	1527.4	1496.6	1503.1	1503.1
17.5°	1488.5	1495.0	1499.9	1498.3	1525.8	1525.8	1521.0	1511.2	1535.5	1522.6	1504.7
20°	1495.0	1490.1	1503.1	1508.0	1527.4	1566.4	1551.8	1543.7	1530.7	1514.5	1514.5
22.5°	1503.1	1499.9	1517.7	1538.8	1576.1	1585.8	1584.2	1574.5	1551.8	1532.3	1529.1
25°	1532.3	1503.1	1522.6	1563.1	1576.1	1595.5	1608.5	1595.5	1564.7	1569.6	1540.4
27.5°	1576.1	1571.2	1597.2	1624.7	1613.4	1631.2	1619.9	1629.6	1631.2	1606.9	1577.7
30°	1628.0	1613.4	1629.6	1683.1	1688.0	1707.4	1688.0	1662.0	1670.1	1649.1	1634.5
32.5°	1702.6	1697.7	1728.5	1764.2	1770.7	1760.9	1751.2	1765.8	1731.7	1715.5	1689.6
35°	1751.2	1772.3	1809.6	1837.1	1858.2	1848.5	1853.4	1838.8	1846.9	1812.8	1801.5
37.5°	1895.5	1887.4	1895.5	1942.5	1947.4	1942.5	1947.4	1963.6	1952.3	1923.1	1893.9
40°	2031.7	2018.7	2038.2	2091.7	2088.5	2104.7	2072.3	2090.1	2090.1	2035.0	2023.6
42.5°	2133.9	2177.7	2200.4	2244.1	2260.4	2245.8	2239.3	2242.5	2278.2	2213.3	2189.0
45°	2344.7	2343.0	2411.1	2435.5	2390.1	2386.8	2373.9	2412.8	2437.1	2399.8	2390.1
47.5°	2573.3	2584.6	2623.6	2633.3	2660.9	2610.6	2610.6	2615.5	2701.4	2613.8	2568.4
50°	2779.2	2793.8	2871.7	2947.9	2896.0	2842.5	2863.5	2889.5	2936.5	2853.8	2814.9
52.5°	3028.9	3108.4	3160.3	3200.8	3238.1	3200.8	3152.2	3181.4	3273.8	3163.5	3114.9
55°	3388.9	3452.1	3500.8	3575.4	3606.2	3555.9	3551.1	3547.8	3599.7	3483.0	3416.5
57.5°	3791.0	3765.1	3842.9	3958.0	4069.9	4021.3	4006.7	4009.9	4022.9	3857.5	3807.2
60°	4290.5	4319.6	4412.1	4512.6	4631.0	4699.1	4603.4	4548.3	4559.6	4334.2	4256.4
62.5°	4575.8	4640.7	4849.9	5195.2	5433.6	5646.0	5660.6	5302.3	5062.3	4624.5	4293.7
65°	4438.0	4428.3	4822.3	5461.2	6364.3	6982.1	6889.7	6020.6	5182.3	4486.7	4042.4
67.5°	3774.8	3748.9	4225.6	5239.0	6730.8	8079.9	7974.5	6223.3	4776.9	3969.4	3466.7
70°	2432.2	2425.7	2943.0	3993.7	6009.2	7418.3	7457.2	5652.5	3888.3	2907.3	2409.5
72.5°	883.7	937.2	1237.2	2146.8	4081.3	5675.2	5699.5	4185.1	2236.0	1344.2	990.7
75°	325.9	335.6	390.8	697.2	1859.8	3484.6	3575.4	2030.1	794.5	437.8	356.7
77.5°	188.1	189.7	209.2	259.4	551.3	1360.4	1415.6	616.2	308.1	233.5	215.7
80°	128.1	126.5	147.6	168.6	220.5	385.9	410.2	257.8	194.6	162.1	136.2
82.5°	74.6	79.5	108.6	120.0	134.6	170.3	173.5	160.5	145.9	120.0	89.2
85°	45.4	37.3	60.0	66.5	77.8	76.2	76.2	87.6	94.0	84.3	50.3
87.5°	11.4	11.4	14.6	16.2	21.1	16.2	17.8	34.1	45.4	42.2	25.9
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°	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8	1551.8
2.5°	1555.0	1550.1	1553.4	1571.2	1559.9	1525.8	1533.9	1551.8	1537.2	1529.1	1527.4
5°	1548.5	1558.2	1546.9	1550.1	1561.5	1533.9	1538.8	1561.5	1551.8	1555.0	1537.2
7.5°	1550.1	1555.0	1545.3	1530.7	1530.7	1553.4	1540.4	1543.7	1529.1	1553.4	1521.0
10°	1540.4	1527.4	1516.1	1524.2	1521.0	1514.5	1509.6	1519.3	1504.7	1525.8	1503.1
12.5°	1511.2	1514.5	1511.2	1508.0	1514.5	1530.7	1504.7	1508.0	1485.3	1488.5	1499.9
15°	1499.9	1509.6	1506.4	1524.2	1532.3	1508.0	1527.4	1508.0	1490.1	1480.4	1498.3
17.5°	1504.7	1519.3	1514.5	1527.4	1512.8	1530.7	1533.9	1525.8	1504.7	1496.6	1504.7
20°	1509.6	1504.7	1511.2	1533.9	1555.0	1537.2	1537.2	1532.3	1512.8	1501.5	1501.5
22.5°	1521.0	1512.8	1522.6	1540.4	1546.9	1574.5	1550.1	1538.8	1506.4	1477.2	1504.7
25°	1543.7	1548.5	1555.0	1548.5	1584.2	1580.9	1577.7	1569.6	1519.3	1521.0	1516.1
27.5°	1587.4	1559.9	1568.0	1606.9	1611.8	1624.7	1608.5	1623.1	1569.6	1571.2	1538.8
30°	1640.9	1611.8	1637.7	1671.8	1670.1	1694.5	1686.3	1689.6	1652.3	1631.2	1587.4
32.5°	1699.3	1696.1	1712.3	1733.4	1741.5	1754.4	1752.8	1752.8	1730.1	1675.0	1683.1
35°	1764.2	1786.9	1806.3	1829.0	1832.3	1848.5	1825.8	1829.0	1806.3	1765.8	1778.8
37.5°	1892.3	1890.7	1911.7	1939.3	1942.5	1929.6	1947.4	1939.3	1908.5	1880.9	1859.8
40°	2041.5	2009.0	2028.5	2093.3	2098.2	2075.5	2073.9	2072.3	2049.6	1989.6	1976.6
42.5°	2171.2	2213.3	2210.1	2231.2	2216.6	2205.2	2245.8	2223.1	2205.2	2142.0	2130.6
45°	2338.2	2351.2	2393.3	2461.4	2391.7	2391.7	2419.3	2401.4	2391.7	2344.7	2300.9
47.5°	2545.7	2557.1	2641.4	2646.3	2600.9	2570.1	2656.0	2659.2	2618.7	2583.0	2529.5
50°	2789.0	2793.8	2870.0	2947.9	2897.6	2839.2	2926.8	2960.8	2870.0	2821.4	2754.9
52.5°	3056.5	3041.9	3105.1	3251.1	3202.4	3184.6	3278.6	3286.8	3163.5	3087.3	3105.1
55°	3364.6	3345.1	3517.0	3615.9	3585.1	3552.7	3594.8	3614.3	3515.4	3390.5	3434.3
57.5°	3763.5	3773.2	3859.1	3956.4	4006.7	4014.8	4034.3	4014.8	3914.3	3787.8	3747.3
60°	4162.4	4191.5	4358.6	4541.8	4558.0	4700.7	4674.7	4577.5	4434.8	4254.8	4262.9
62.5°	4309.9	4285.6	4554.8	5002.3	5383.3	5644.4	5529.3	5183.9	4853.1	4525.6	4549.9
65°	4013.2	4073.2	4439.6	5140.1	5967.1	7000.0	6387.0	5432.0	4763.9	4340.7	4293.7
67.5°	3458.6	3504.0	3969.4	4708.8	6176.2	7833.4	6711.3	5081.7	4201.3	3653.2	3682.4
70°	2409.5	2432.2	2887.9	3857.5	5600.6	7392.4	6054.6	3902.9	2900.8	2312.2	2344.7
72.5°	969.6	1024.8	1324.8	2323.6	4134.8	5616.8	4076.4	2047.9	1203.1	895.1	812.4
75°	358.3	360.0	423.2	799.4	1963.6	3530.0	1838.8	658.3	384.3	314.6	300.0
77.5°	207.6	205.9	220.5	288.6	569.1	1378.3	522.1	257.8	209.2	188.1	180.0
80°	129.7	128.1	150.8	191.3	249.7	377.8	220.5	160.5	141.1	121.6	121.6
82.5°	82.7	84.3	118.4	141.1	152.4	167.0	128.1	113.5	105.4	69.7	68.1
85°	53.5	48.6	82.7	94.0	84.3	74.6	71.3	60.0	55.1	34.1	37.3
87.5°	24.3	25.9	42.2	47.0	30.8	17.8	17.8	13.0	13.0	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)