

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: P478800

Luminaire Tested: **IFLD-M-SA4A-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478800  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

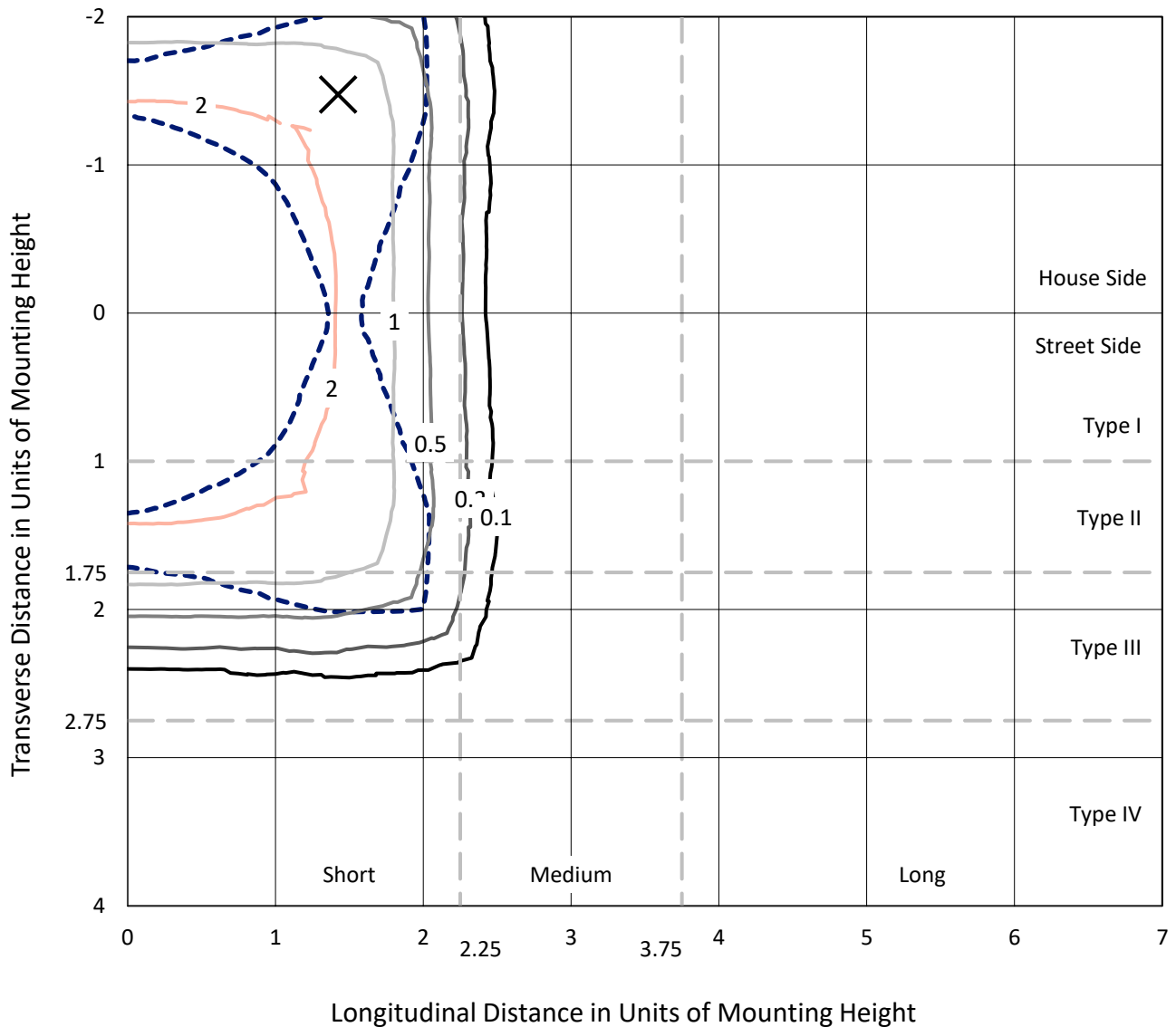
Lumens per Lamp: N/A  
Luminaire Lumens: 13567.3 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

REPORT NUMBER: P478800  
 CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

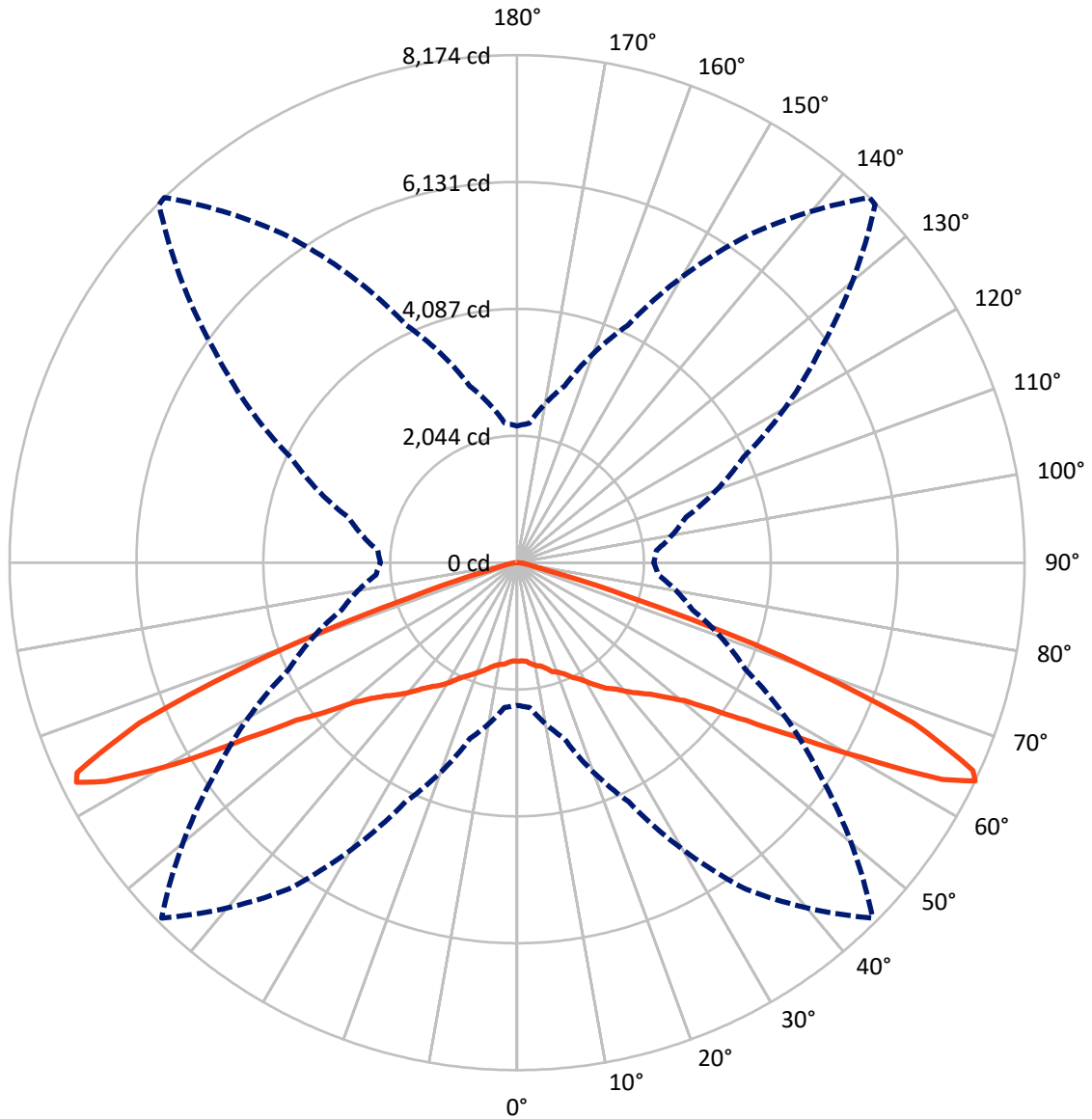
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P478800  
CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478800

CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6790.1	0.0	6790.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6777.2	0.0	6777.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13567.3	0.0	13567.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	1.2
10°-20°	503.0	3.7
20°-30°	945.4	7.0
30°-40°	1559.2	11.5
40°-50°	2438.4	18.0
50°-60°	3939.9	29.0
60°-70°	3547.6	26.1
70°-80°	420.2	3.1
80°-90°	57.5	0.4
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°	13567.3	100.0
0°-180°	13567.3	100.0

**Coefficient of Utilization**



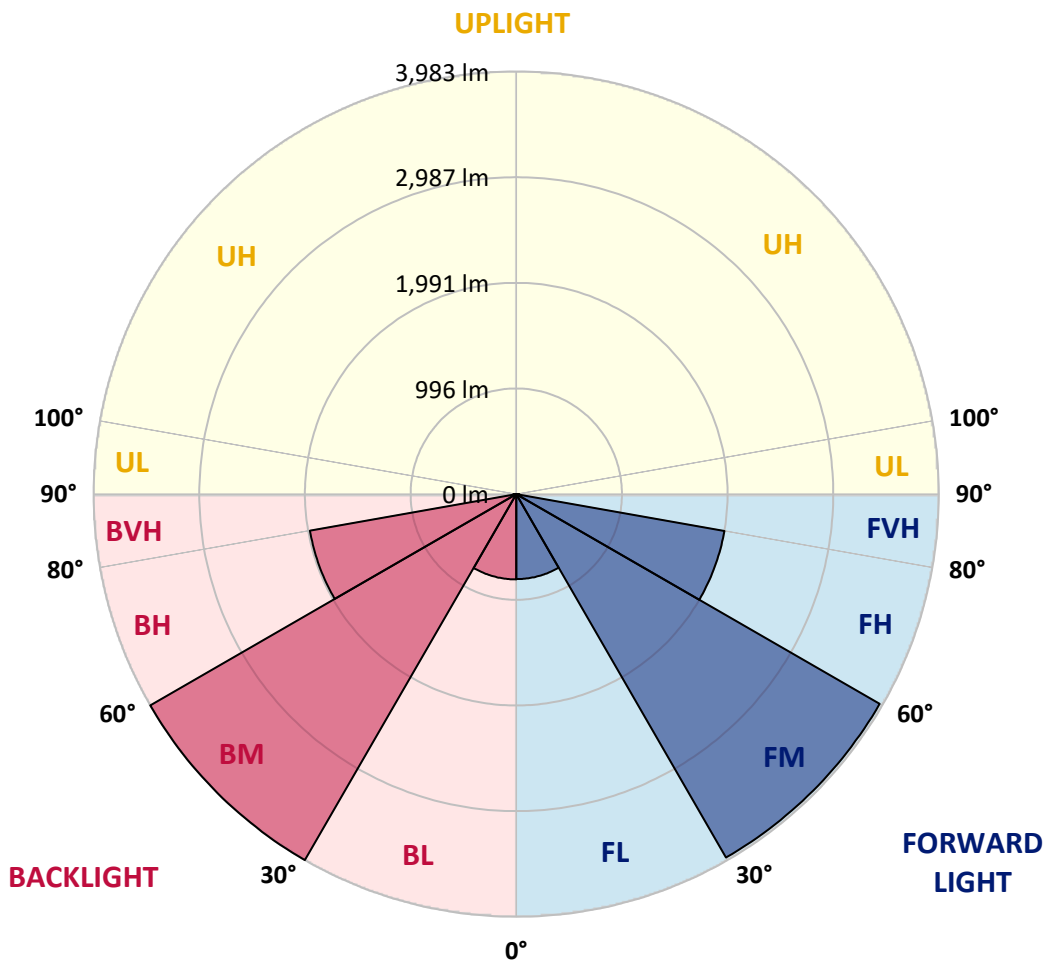
REPORT NUMBER: P478800  
 CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.7	5.9			
FM (30°-60°)	3954.5	29.1			
FH (60°-80°)	1992.5	14.7			G2/5000
FVH (80°-90°)	29.5	0.2			G1/100
BL (0°-30°)	803.8	5.9	B2/1000		
BM (30°-60°)	3983.0	29.4	B3/5000		
BH (60°-80°)	1975.3	14.6	B3/2500		G2/5000
BVH (80°-90°)	28.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





REPORT NUMBER: P478800

CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1569.8	1572.9	1600.9	1590.0	1599.3	1582.2	1594.7	1621.1	1590.0	1613.3	1621.1
5°	1586.9	1591.6	1591.6	1602.5	1608.7	1605.6	1613.3	1602.5	1632.0	1619.6	1638.2
7.5°	1649.1	1641.4	1628.9	1638.2	1639.8	1647.6	1655.4	1669.4	1664.7	1653.8	1672.5
10°	1660.0	1653.8	1672.5	1674.0	1666.2	1660.0	1667.8	1667.8	1681.8	1684.9	1684.9
12.5°	1678.7	1684.9	1683.4	1695.8	1697.4	1692.7	1705.1	1728.5	1722.3	1726.9	1716.0
15°	1750.3	1742.5	1740.9	1753.4	1773.6	1744.0	1765.8	1764.3	1758.0	1767.4	1742.5
17.5°	1812.5	1787.6	1798.5	1818.7	1810.9	1817.2	1845.2	1820.3	1826.5	1815.6	1807.8
20°	1866.9	1846.7	1848.3	1856.1	1856.1	1874.7	1885.6	1876.3	1870.1	1868.5	1871.6
22.5°	1927.6	1904.3	1905.8	1938.5	1949.4	1943.2	1935.4	1951.0	1954.1	1941.6	1955.6
25°	1972.7	1997.6	2005.4	2021.0	1997.6	2014.7	2008.5	2038.1	2056.7	2031.9	2049.0
27.5°	2091.0	2080.1	2100.3	2098.8	2117.4	2100.3	2111.2	2120.5	2128.3	2129.9	2122.1
30°	2196.8	2201.4	2181.2	2235.7	2192.1	2220.1	2238.8	2243.4	2252.8	2252.8	2229.4
32.5°	2308.8	2299.4	2332.1	2319.7	2311.9	2333.7	2313.5	2377.2	2339.9	2361.7	2335.2
35°	2434.8	2434.8	2447.2	2481.5	2434.8	2420.8	2458.1	2484.6	2484.6	2445.7	2455.0
37.5°	2576.4	2563.9	2579.5	2623.1	2587.3	2540.6	2609.1	2619.9	2612.2	2601.3	2582.6
40°	2675.9	2672.8	2704.0	2761.5	2710.2	2700.8	2713.3	2742.8	2752.2	2763.1	2738.2
42.5°	2844.0	2858.0	2948.2	2934.2	2892.2	2859.5	2856.4	2966.9	2940.4	2912.4	2898.4
45°	3092.9	3080.5	3127.1	3128.7	3074.2	3002.7	3018.2	3119.3	3164.5	3102.2	3125.6
47.5°	3290.5	3296.7	3329.4	3396.3	3270.3	3195.6	3253.1	3416.5	3402.5	3379.2	3400.9
50°	3555.0	3583.0	3685.7	3662.3	3550.3	3458.5	3584.5	3738.5	3755.7	3670.1	3654.5
52.5°	3920.6	3964.1	4020.1	4038.8	3931.5	3898.8	3906.6	4097.9	4055.9	3973.5	3920.6
55°	4241.1	4261.3	4364.0	4518.0	4510.2	4353.1	4443.3	4514.9	4343.7	4174.2	4188.2
57.5°	4378.0	4387.3	4673.6	4981.6	5165.2	5201.0	5098.3	4857.2	4449.5	4122.8	4102.6
60°	4037.3	4125.9	4471.3	5166.8	6005.3	6419.2	5736.2	4896.1	4202.2	3805.4	3775.9
62.5°	3226.7	3231.4	3744.8	4799.6	6528.1	7612.5	5980.4	4530.4	3542.5	3092.9	2974.7
64°	2297.9	2341.5	2931.1	4248.8	6419.2	8097.9	5950.9	4052.8	2920.2	2282.3	2199.9
65°	1649.1	1709.8	2279.2	3688.8	6164.0	8040.3	5862.2	3642.1	2361.7	1742.5	1658.5
67.5°	606.8	631.6	894.6	1845.2	4426.2	6851.7	4645.6	2002.3	1037.7	739.0	664.3
70°	281.6	283.2	331.4	609.9	1935.4	4581.8	2217.0	751.4	390.5	309.6	287.8
72.5°	206.9	211.6	231.8	281.6	569.4	1940.1	728.1	308.0	228.7	202.3	197.6
75°	168.0	171.1	177.4	203.8	262.9	519.6	295.6	213.1	182.0	163.4	157.1
77.5°	129.1	129.1	143.1	155.6	174.2	242.7	196.0	169.6	147.8	129.1	124.5
80°	93.3	94.9	112.0	121.4	118.2	160.2	141.6	140.0	121.4	101.1	93.3
82.5°	54.5	59.1	80.9	87.1	84.0	94.9	102.7	108.9	94.9	70.0	63.8
85°	31.1	32.7	46.7	48.2	48.2	45.1	59.1	65.3	63.8	43.6	38.9
87.5°	9.3	9.3	12.4	12.4	14.0	15.6	23.3	28.0	31.1	21.8	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478800  
 CATALOG NUMBER: IFLD-M-SA4A-722-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1613.3	1590.0	1591.6	1597.8	1577.6	1585.3	1608.7	1591.6	1586.9	1577.6	1572.9
5°	1605.6	1630.5	1621.1	1624.2	1619.6	1597.8	1594.7	1608.7	1616.5	1602.5	1630.5
7.5°	1660.0	1649.1	1636.7	1641.4	1630.5	1649.1	1661.6	1633.6	1647.6	1639.8	1624.2
10°	1691.1	1670.9	1680.2	1677.1	1669.4	1688.0	1675.6	1672.5	1660.0	1642.9	1667.8
12.5°	1702.0	1725.4	1740.9	1714.5	1719.1	1709.8	1702.0	1702.0	1688.0	1683.4	1688.0
15°	1750.3	1770.5	1764.3	1784.5	1758.0	1767.4	1776.7	1753.4	1765.8	1731.6	1758.0
17.5°	1838.9	1821.8	1843.6	1817.2	1826.5	1845.2	1815.6	1815.6	1824.9	1806.3	1782.9
20°	1894.9	1887.2	1879.4	1880.9	1865.4	1882.5	1873.2	1868.5	1854.5	1860.7	1873.2
22.5°	1947.8	1937.0	1940.1	1944.7	1955.6	1947.8	1943.2	1947.8	1913.6	1944.7	1901.2
25°	2013.2	2042.7	2033.4	2053.6	2022.5	2042.7	2041.2	2011.6	2030.3	2017.9	2008.5
27.5°	2122.1	2106.5	2120.5	2095.6	2117.4	2119.0	2100.3	2150.1	2128.3	2125.2	2119.0
30°	2262.1	2251.2	2241.9	2227.9	2245.0	2231.0	2246.6	2251.2	2231.0	2215.4	2185.9
32.5°	2341.5	2371.0	2381.9	2347.7	2349.2	2357.0	2343.0	2329.0	2341.5	2346.1	2341.5
35°	2453.5	2481.5	2487.7	2461.3	2447.2	2486.1	2458.1	2504.8	2464.4	2465.9	2423.9
37.5°	2584.2	2591.9	2644.8	2615.3	2602.8	2584.2	2635.5	2629.3	2638.6	2563.9	2601.3
40°	2732.0	2760.0	2789.5	2714.8	2713.3	2730.4	2727.3	2763.1	2746.0	2735.1	2708.6
42.5°	2893.8	2952.9	2957.5	2907.8	2876.6	2873.5	2889.1	2968.4	2970.0	2898.4	2867.3
45°	3108.5	3173.8	3156.7	3060.2	3026.0	3021.3	3097.6	3131.8	3161.4	3133.3	3106.9
47.5°	3376.1	3419.6	3407.2	3318.5	3208.0	3239.1	3313.8	3421.2	3390.1	3352.7	3321.6
50°	3662.3	3713.7	3687.2	3598.5	3492.7	3492.7	3584.5	3721.4	3712.1	3639.0	3611.0
52.5°	3979.7	4054.4	4115.0	3989.0	3900.4	3914.4	4059.0	4108.8	4085.5	4034.1	4010.8
55°	4216.2	4359.3	4483.8	4490.0	4494.7	4493.1	4530.4	4580.2	4413.8	4331.3	4247.3
57.5°	4158.6	4429.3	4855.6	5145.0	5230.5	5275.7	5263.2	5033.0	4639.3	4368.6	4396.6
60°	3747.9	4189.7	4877.4	5806.2	6428.5	6366.3	6139.1	5229.0	4514.9	4057.5	3999.9
62.5°	2990.2	3522.3	4511.8	5992.9	7707.4	7688.7	6500.1	4776.3	3761.9	3183.1	3147.4
64°	2252.8	2812.9	4024.8	5944.7	8155.4	8174.1	6408.3	4219.3	2943.5	2252.8	2198.3
65°	1723.8	2243.4	3547.2	5845.1	8059.0	8069.9	6153.1	3643.6	2237.2	1599.3	1540.2
67.5°	686.1	955.3	1924.5	4432.4	6920.1	6890.6	4390.4	1762.7	855.7	557.0	546.1
70°	292.5	364.1	675.2	2100.3	4633.1	4547.6	1890.3	572.5	317.4	266.0	264.5
72.5°	200.7	222.5	289.4	648.8	1926.1	1880.9	538.3	266.0	216.3	199.1	199.1
75°	161.8	177.4	210.0	272.3	510.3	491.6	253.6	196.0	172.7	160.2	158.7
77.5°	126.0	141.6	164.9	188.2	233.4	231.8	169.6	147.8	133.8	124.5	121.4
80°	99.6	115.1	130.7	133.8	152.5	149.4	115.1	116.7	108.9	90.2	88.7
82.5°	68.5	93.3	104.2	94.9	90.2	90.2	82.5	82.5	76.2	56.0	51.3
85°	42.0	62.2	65.3	56.0	42.0	42.0	45.1	43.6	40.5	29.6	28.0
87.5°	21.8	29.6	26.4	21.8	14.0	14.0	12.4	9.3	9.3	7.8	7.8
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)