

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: P478975

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

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478975
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-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

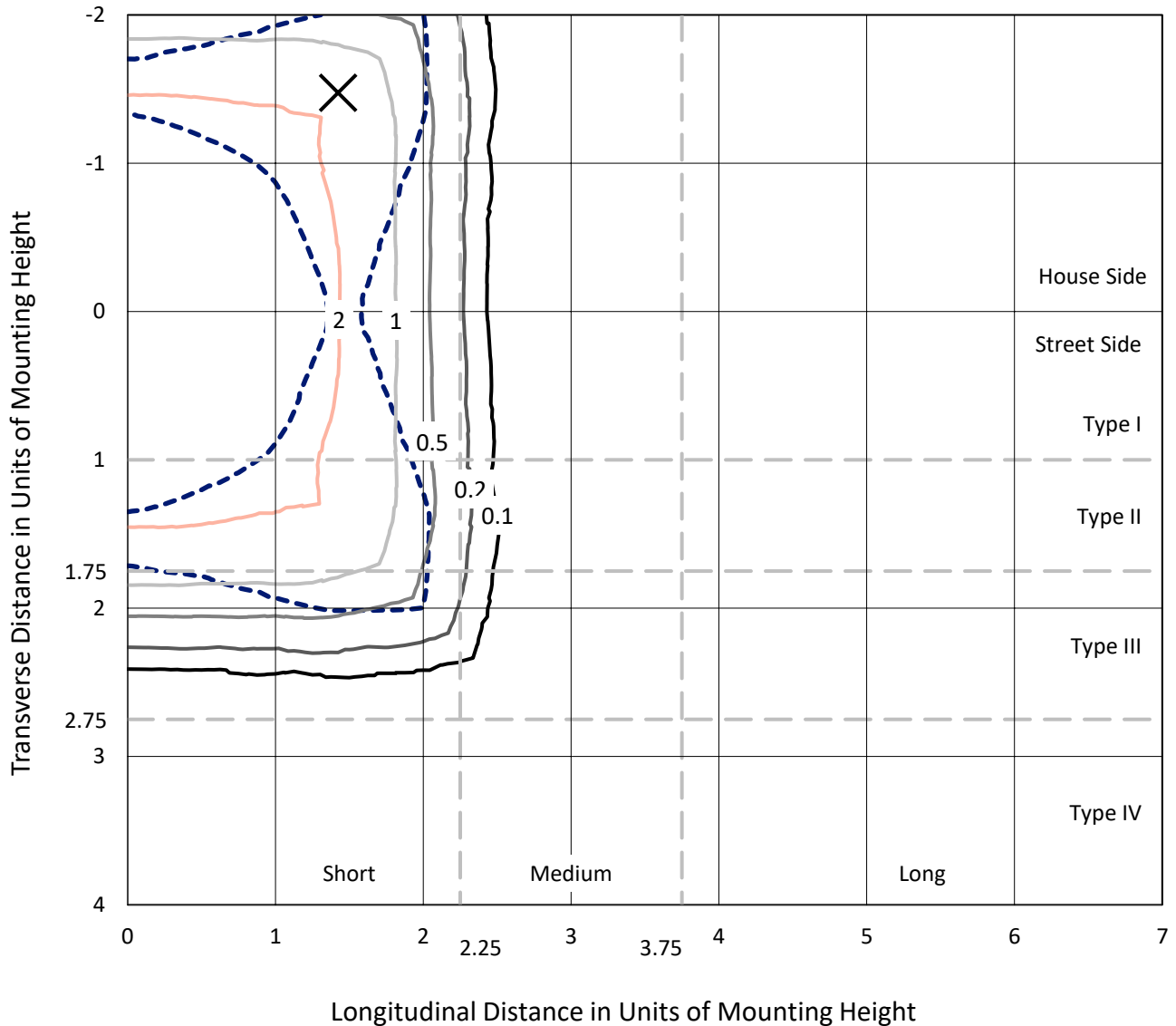
Lumens per Lamp: N/A
Luminaire Lumens: 14036.6 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

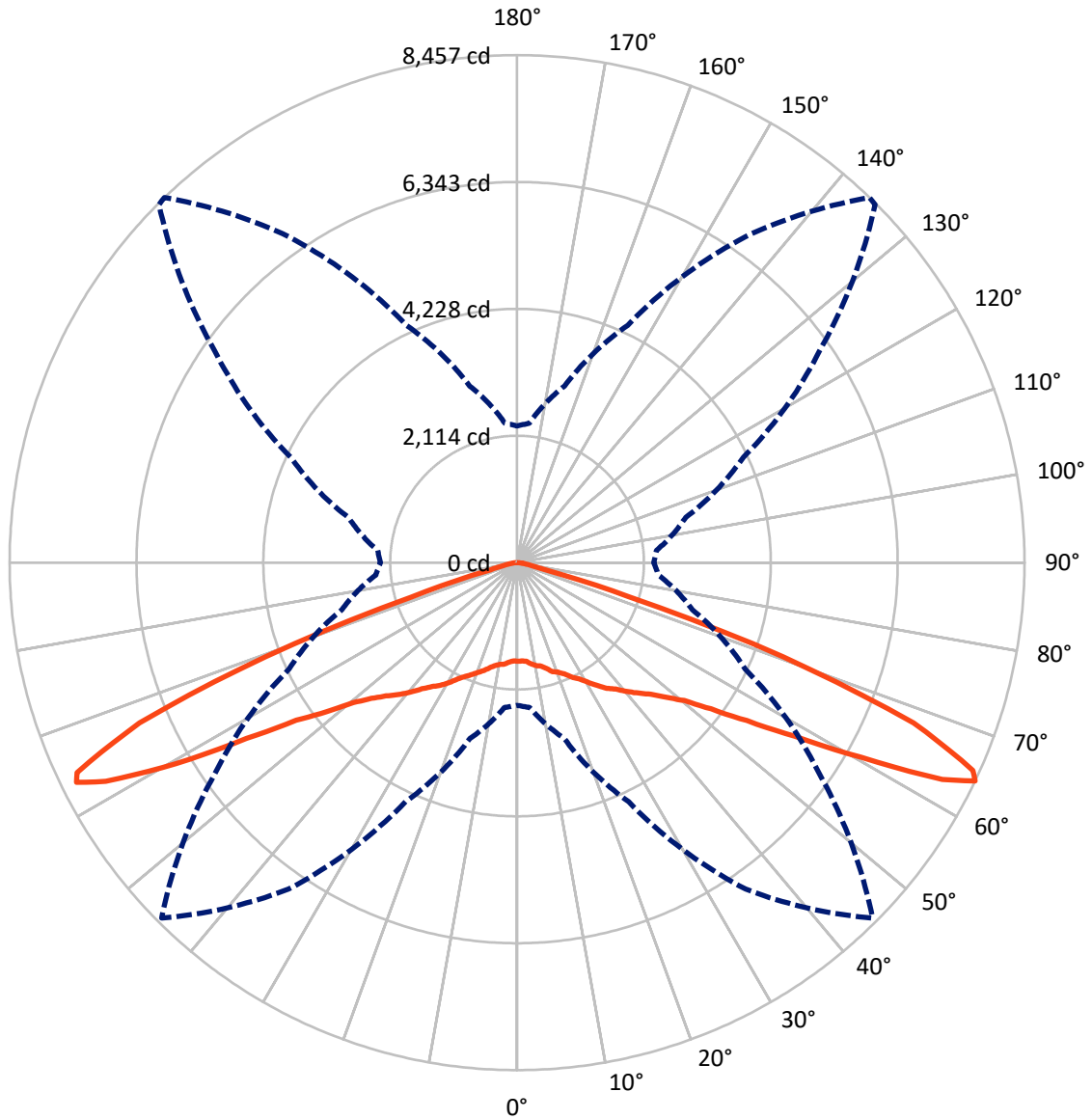
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7025.0	0.0	7025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7011.6	0.0	7011.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14036.6	0.0	14036.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.2
10°-20°	520.4	3.7
20°-30°	978.1	7.0
30°-40°	1613.1	11.5
40°-50°	2522.7	18.0
50°-60°	4076.2	29.0
60°-70°	3670.3	26.1
70°-80°	434.8	3.1
80°-90°	59.5	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°	14036.6	100.0
0°-180°	14036.6	100.0

Coefficient of Utilization



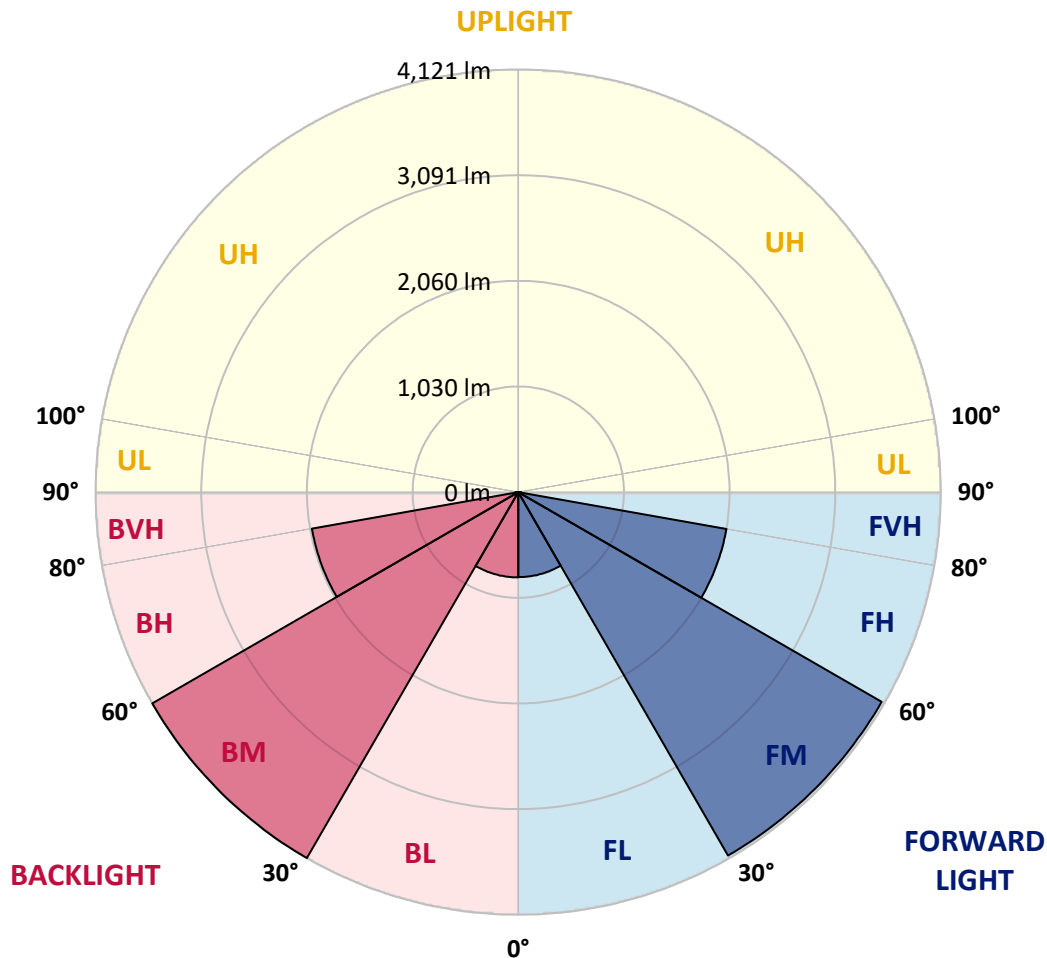
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.4	5.9			
FM (30°-60°)	4091.2	29.1			
FH (60°-80°)	2061.4	14.7			G2/5000
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	831.6	5.9	B2/1000		
BM (30°-60°)	4120.8	29.4	B3/5000		
BH (60°-80°)	2043.6	14.6	B3/2500		G2/5000
BVH (80°-90°)	29.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1624.1	1627.3	1656.3	1645.0	1654.7	1637.0	1649.8	1677.2	1645.0	1669.2	1677.2
5°	1641.8	1646.6	1646.6	1657.9	1664.3	1661.1	1669.2	1657.9	1688.5	1675.6	1694.9
7.5°	1706.2	1698.1	1685.3	1694.9	1696.5	1704.6	1712.6	1727.1	1722.3	1711.0	1730.3
10°	1717.4	1711.0	1730.3	1731.9	1723.9	1717.4	1725.5	1725.5	1740.0	1743.2	1743.2
12.5°	1736.8	1743.2	1741.6	1754.5	1756.1	1751.2	1764.1	1788.3	1781.8	1786.7	1775.4
15°	1810.8	1802.8	1801.1	1814.0	1834.9	1804.4	1826.9	1825.3	1818.8	1828.5	1802.8
17.5°	1875.2	1849.4	1860.7	1881.6	1873.6	1880.0	1909.0	1883.2	1889.7	1878.4	1870.4
20°	1931.5	1910.6	1912.2	1920.3	1920.3	1939.6	1950.8	1941.2	1934.7	1933.1	1936.3
22.5°	1994.3	1970.1	1971.8	2005.6	2016.8	2010.4	2002.3	2018.4	2021.7	2008.8	2023.3
25°	2041.0	2066.7	2074.8	2090.9	2066.7	2084.4	2078.0	2108.6	2127.9	2102.1	2119.8
27.5°	2163.3	2152.0	2173.0	2171.3	2190.7	2173.0	2184.2	2193.9	2201.9	2203.5	2195.5
30°	2272.8	2277.6	2256.7	2313.0	2267.9	2296.9	2316.2	2321.0	2330.7	2330.7	2306.6
32.5°	2388.6	2379.0	2412.8	2399.9	2391.9	2414.4	2393.5	2459.5	2420.8	2443.4	2416.0
35°	2519.0	2519.0	2531.9	2567.3	2519.0	2504.5	2543.2	2570.5	2570.5	2530.3	2539.9
37.5°	2665.5	2652.6	2668.7	2713.8	2676.8	2628.5	2699.3	2710.6	2702.5	2691.2	2671.9
40°	2768.5	2765.3	2797.5	2857.0	2803.9	2794.3	2807.1	2837.7	2847.4	2858.6	2832.9
42.5°	2942.3	2956.8	3050.2	3035.7	2992.2	2958.4	2955.2	3069.5	3042.1	3013.2	2998.7
45°	3199.9	3187.0	3235.3	3236.9	3180.6	3106.5	3122.6	3227.2	3273.9	3209.5	3233.7
47.5°	3404.3	3410.7	3444.5	3513.8	3383.4	3306.1	3365.7	3534.7	3520.2	3496.0	3518.6
50°	3677.9	3706.9	3813.1	3789.0	3673.1	3578.1	3708.5	3867.9	3885.6	3797.0	3780.9
52.5°	4056.2	4101.3	4159.2	4178.5	4067.5	4033.7	4041.7	4239.7	4196.2	4110.9	4056.2
55°	4387.8	4408.7	4514.9	4674.3	4666.2	4503.7	4597.0	4671.1	4494.0	4318.6	4333.0
57.5°	4529.4	4539.1	4835.2	5153.9	5343.9	5380.9	5274.7	5025.2	4603.5	4265.4	4244.5
60°	4176.9	4268.7	4626.0	5345.5	6213.1	6641.2	5934.6	5065.4	4347.5	3937.1	3906.5
62.5°	3338.3	3343.1	3874.3	4965.6	6753.9	7875.8	6187.3	4687.2	3665.1	3199.9	3077.6
64°	2377.4	2422.4	3032.5	4395.8	6641.2	8378.0	6156.7	4193.0	3021.2	2361.3	2276.0
65°	1706.2	1768.9	2358.1	3816.4	6377.2	8318.4	6065.0	3768.1	2443.4	1802.8	1715.8
67.5°	627.7	653.5	925.5	1909.0	4579.3	7088.7	4806.3	2071.6	1073.6	764.6	687.3
70°	291.3	292.9	342.8	631.0	2002.3	4740.3	2293.7	777.4	404.0	320.3	297.8
72.5°	214.1	218.9	239.8	291.3	589.1	2007.2	753.3	318.7	236.6	209.2	204.4
75°	173.8	177.1	183.5	210.9	272.0	537.6	305.8	220.5	188.3	169.0	162.6
77.5°	133.6	133.6	148.1	161.0	180.3	251.1	202.8	175.4	152.9	133.6	128.8
80°	96.6	98.2	115.9	125.5	122.3	165.8	146.5	144.9	125.5	104.6	96.6
82.5°	56.3	61.2	83.7	90.1	86.9	98.2	106.2	112.7	98.2	72.4	66.0
85°	32.2	33.8	48.3	49.9	49.9	46.7	61.2	67.6	66.0	45.1	40.2
87.5°	9.7	9.7	12.9	12.9	14.5	16.1	24.1	29.0	32.2	22.5	20.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4
2.5°	1669.2	1645.0	1646.6	1653.1	1632.1	1640.2	1664.3	1646.6	1641.8	1632.1	1627.3
5°	1661.1	1686.9	1677.2	1680.4	1675.6	1653.1	1649.8	1664.3	1672.4	1657.9	1686.9
7.5°	1717.4	1706.2	1693.3	1698.1	1686.9	1706.2	1719.1	1690.1	1704.6	1696.5	1680.4
10°	1749.6	1728.7	1738.4	1735.1	1727.1	1746.4	1733.5	1730.3	1717.4	1699.7	1725.5
12.5°	1760.9	1785.0	1801.1	1773.8	1778.6	1768.9	1760.9	1760.9	1746.4	1741.6	1746.4
15°	1810.8	1831.7	1825.3	1846.2	1818.8	1828.5	1838.2	1814.0	1826.9	1791.5	1818.8
17.5°	1902.5	1884.8	1907.4	1880.0	1889.7	1909.0	1878.4	1878.4	1888.1	1868.7	1844.6
20°	1960.5	1952.4	1944.4	1946.0	1929.9	1947.6	1938.0	1933.1	1918.6	1925.1	1938.0
22.5°	2015.2	2004.0	2007.2	2012.0	2023.3	2015.2	2010.4	2015.2	1979.8	2012.0	1966.9
25°	2082.8	2113.4	2103.7	2124.7	2092.5	2113.4	2111.8	2081.2	2100.5	2087.7	2078.0
27.5°	2195.5	2179.4	2193.9	2168.1	2190.7	2192.3	2173.0	2224.5	2201.9	2198.7	2192.3
30°	2340.4	2329.1	2319.4	2304.9	2322.7	2308.2	2324.3	2329.1	2308.2	2292.1	2261.5
32.5°	2422.4	2453.0	2464.3	2428.9	2430.5	2438.5	2424.1	2409.6	2422.4	2427.3	2422.4
35°	2538.3	2567.3	2573.7	2546.4	2531.9	2572.1	2543.2	2591.5	2549.6	2551.2	2507.8
37.5°	2673.5	2681.6	2736.3	2705.7	2692.9	2673.5	2726.7	2720.2	2729.9	2652.6	2691.2
40°	2826.5	2855.4	2886.0	2808.8	2807.1	2824.8	2821.6	2858.6	2840.9	2829.7	2802.3
42.5°	2993.9	3055.0	3059.8	3008.3	2976.1	2972.9	2989.0	3071.1	3072.7	2998.7	2966.5
45°	3216.0	3283.6	3265.9	3166.1	3130.7	3125.8	3204.7	3240.1	3270.7	3241.7	3214.4
47.5°	3492.8	3537.9	3525.0	3433.3	3319.0	3351.2	3428.4	3539.5	3507.3	3468.7	3436.5
50°	3789.0	3842.1	3814.7	3723.0	3613.6	3613.6	3708.5	3850.2	3840.5	3764.9	3735.9
52.5°	4117.4	4194.6	4257.4	4127.0	4035.3	4049.8	4199.4	4251.0	4226.8	4173.7	4149.5
55°	4362.0	4510.1	4638.9	4645.3	4650.1	4648.5	4687.2	4738.7	4566.4	4481.1	4394.2
57.5°	4302.5	4582.5	5023.6	5322.9	5411.5	5458.2	5445.3	5207.1	4799.8	4519.8	4548.7
60°	3877.5	4334.7	5046.1	6007.0	6650.9	6586.5	6351.5	5409.9	4671.1	4197.8	4138.3
62.5°	3093.6	3644.1	4667.8	6200.2	7974.0	7954.6	6724.9	4941.5	3892.0	3293.2	3256.2
64°	2330.7	2910.2	4164.0	6150.3	8437.5	8456.8	6629.9	4365.2	3045.4	2330.7	2274.4
65°	1783.4	2321.0	3669.9	6047.3	8337.7	8349.0	6366.0	3769.7	2314.6	1654.7	1593.5
67.5°	709.8	988.3	1991.1	4585.7	7159.5	7128.9	4542.3	1823.7	885.3	576.2	565.0
70°	302.6	376.6	698.6	2173.0	4793.4	4704.9	1955.7	592.3	328.4	275.2	273.6
72.5°	207.6	230.2	299.4	671.2	1992.7	1946.0	556.9	275.2	223.7	206.0	206.0
75°	167.4	183.5	217.3	281.7	527.9	508.6	262.4	202.8	178.7	165.8	164.2
77.5°	130.4	146.5	170.6	194.8	241.4	239.8	175.4	152.9	138.4	128.8	125.5
80°	103.0	119.1	135.2	138.4	157.7	154.5	119.1	120.7	112.7	93.4	91.7
82.5°	70.8	96.6	107.8	98.2	93.4	93.4	85.3	85.3	78.9	57.9	53.1
85°	43.5	64.4	67.6	57.9	43.5	43.5	46.7	45.1	41.8	30.6	29.0
87.5°	22.5	30.6	27.4	22.5	14.5	14.5	12.9	9.7	9.7	8.0	8.0
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)