

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: P479112

Luminaire Tested: **IFLD-M-SA4A-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479112  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

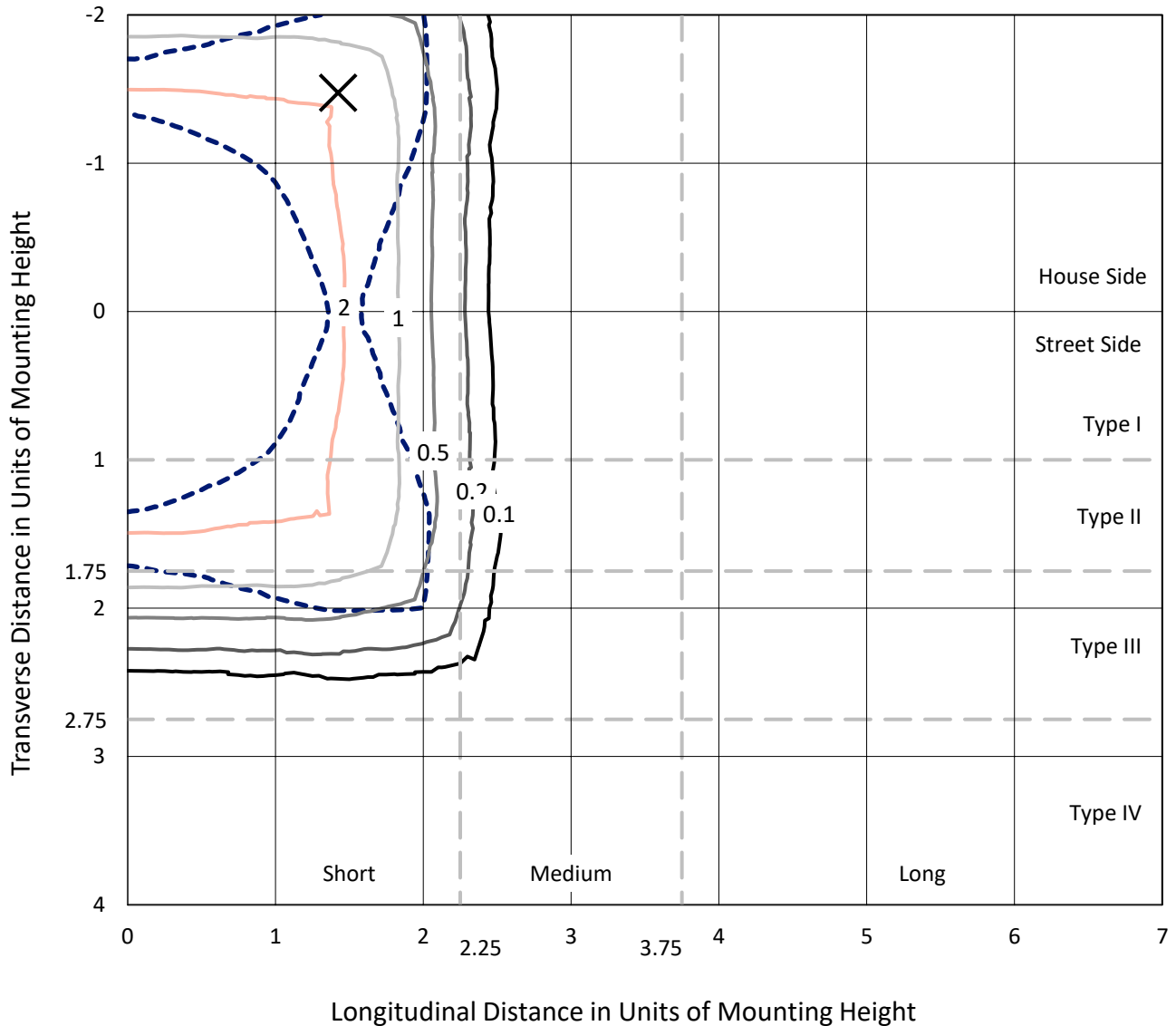
Lumens per Lamp: N/A  
Luminaire Lumens: 14635.6 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

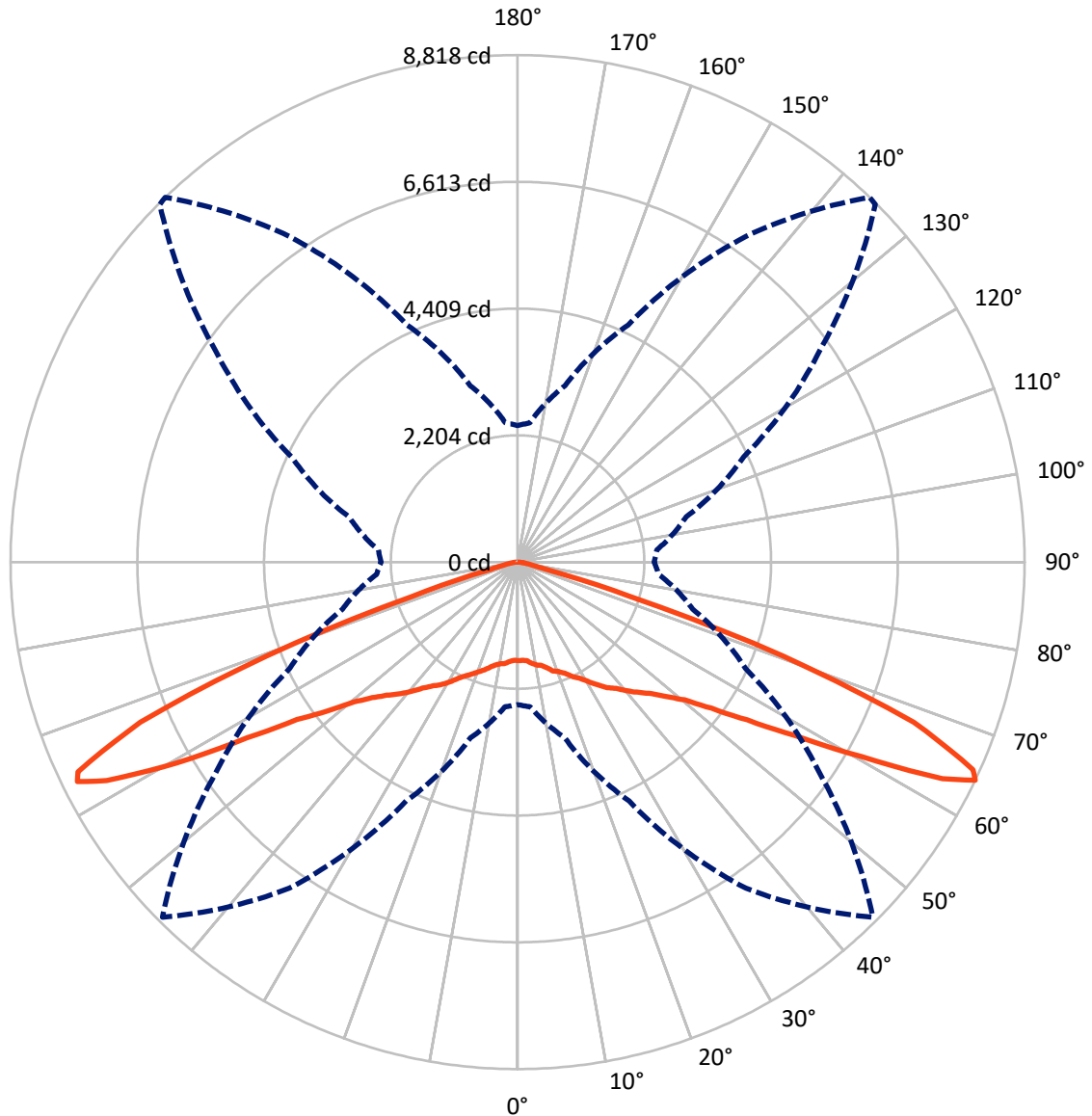
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	7324.8	0.0	7324.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7310.8	0.0	7310.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14635.6	0.0	14635.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	1.2
10°-20°	542.6	3.7
20°-30°	1019.9	7.0
30°-40°	1681.9	11.5
40°-50°	2630.4	18.0
50°-60°	4250.1	29.0
60°-70°	3826.9	26.1
70°-80°	453.3	3.1
80°-90°	62.0	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°	14635.6	100.0
0°-180°	14635.6	100.0

**Coefficient of Utilization**



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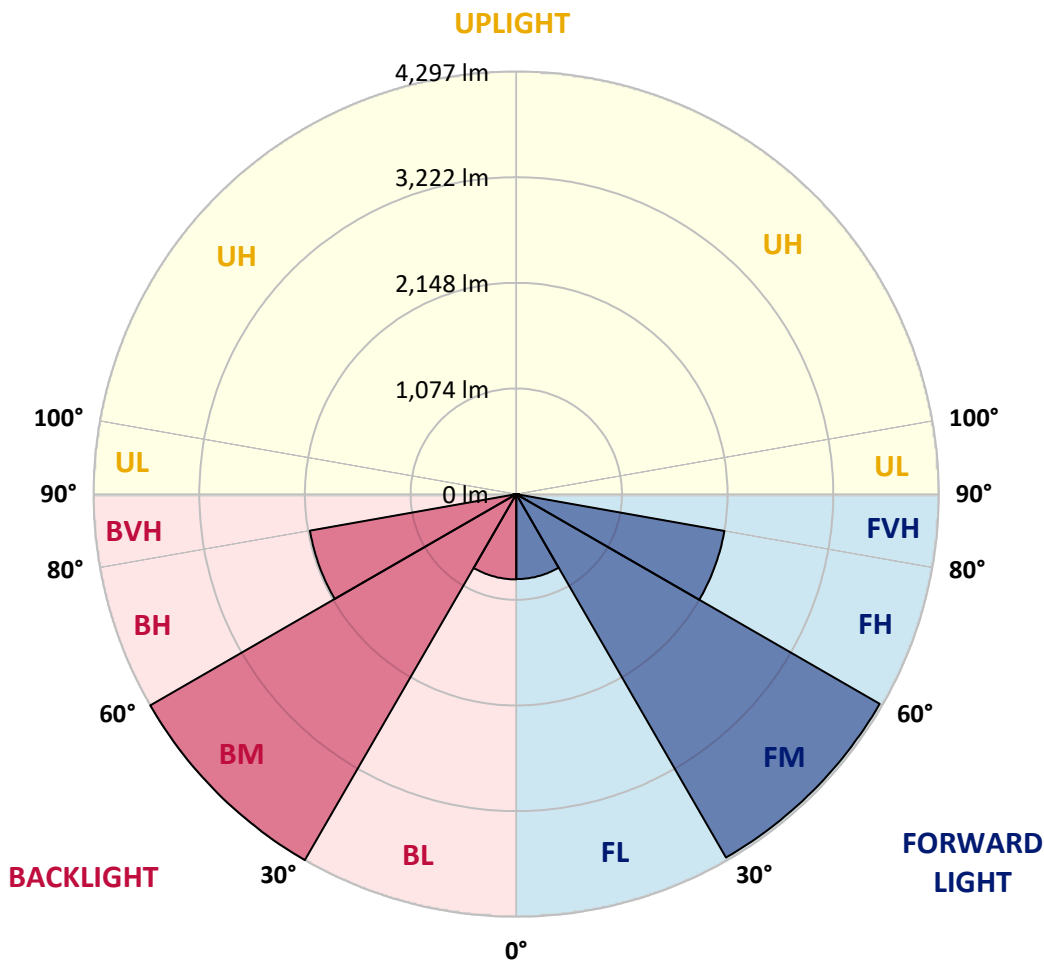
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.8	5.9			
FM (30°-60°)	4265.8	29.1			
FH (60°-80°)	2149.4	14.7			G2/5000
FVH (80°-90°)	31.8	0.2			G1/100
BL (0°-30°)	867.1	5.9	B2/1000		
BM (30°-60°)	4296.6	29.4	B3/5000		
BH (60°-80°)	2130.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	30.2	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°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1693.4	1696.7	1727.0	1715.2	1725.3	1706.8	1720.2	1748.8	1715.2	1740.4	1748.8
5°	1711.9	1716.9	1716.9	1728.6	1735.3	1732.0	1740.4	1728.6	1760.5	1747.1	1767.2
7.5°	1779.0	1770.6	1757.2	1767.2	1768.9	1777.3	1785.7	1800.8	1795.8	1784.0	1804.2
10°	1790.7	1784.0	1804.2	1805.8	1797.4	1790.7	1799.1	1799.1	1814.2	1817.6	1817.6
12.5°	1810.9	1817.6	1815.9	1829.3	1831.0	1826.0	1839.4	1864.6	1857.9	1862.9	1851.2
15°	1888.1	1879.7	1878.0	1891.4	1913.2	1881.4	1904.9	1903.2	1896.5	1906.5	1879.7
17.5°	1955.2	1928.4	1940.1	1961.9	1953.5	1960.2	1990.4	1963.6	1970.3	1958.6	1950.2
20°	2013.9	1992.1	1993.8	2002.2	2002.2	2022.3	2034.1	2024.0	2017.3	2015.6	2019.0
22.5°	2079.4	2054.2	2055.9	2091.1	2102.9	2096.2	2087.8	2104.6	2107.9	2094.5	2109.6
25°	2128.1	2154.9	2163.3	2180.1	2154.9	2173.4	2166.7	2198.6	2218.7	2191.8	2210.3
27.5°	2255.6	2243.9	2265.7	2264.0	2284.1	2265.7	2277.4	2287.5	2295.9	2297.6	2289.2
30°	2369.7	2374.8	2353.0	2411.7	2364.7	2394.9	2415.1	2420.1	2430.2	2430.2	2405.0
32.5°	2490.6	2480.5	2515.8	2502.3	2493.9	2517.4	2495.6	2564.4	2524.1	2547.6	2519.1
35°	2626.5	2626.5	2639.9	2676.9	2626.5	2611.4	2651.7	2680.2	2680.2	2638.3	2648.3
37.5°	2779.2	2765.8	2782.6	2829.6	2791.0	2740.6	2814.5	2826.2	2817.8	2806.1	2786.0
40°	2886.7	2883.3	2916.9	2979.0	2923.6	2913.5	2926.9	2958.8	2968.9	2980.6	2953.8
42.5°	3067.9	3083.0	3180.4	3165.2	3119.9	3084.7	3081.3	3200.5	3172.0	3141.8	3126.6
45°	3336.4	3323.0	3373.4	3375.0	3316.3	3239.1	3255.9	3365.0	3413.6	3346.5	3371.7
47.5°	3549.6	3556.3	3591.5	3663.7	3527.8	3447.2	3509.3	3685.5	3670.4	3645.2	3668.7
50°	3834.9	3865.1	3975.9	3950.7	3829.9	3730.8	3866.8	4032.9	4051.4	3959.1	3942.3
52.5°	4229.3	4276.3	4336.7	4356.8	4241.0	4205.8	4214.2	4420.6	4375.3	4286.3	4229.3
55°	4575.0	4596.8	4707.6	4873.7	4865.4	4695.8	4793.2	4870.4	4685.8	4502.8	4517.9
57.5°	4722.7	4732.8	5041.6	5373.9	5571.9	5610.5	5499.7	5239.6	4799.9	4447.5	4425.6
60°	4355.2	4450.8	4823.4	5573.6	6478.2	6924.6	6187.8	5281.6	4533.1	4105.1	4073.2
62.5°	3480.8	3485.8	4039.6	5177.5	7042.1	8211.9	6451.3	4887.2	3821.5	3336.4	3208.9
64°	2478.8	2525.8	3161.9	4583.4	6924.6	8735.5	6419.4	4371.9	3150.1	2462.0	2373.1
65°	1779.0	1844.4	2458.7	3979.2	6649.4	8673.4	6323.8	3928.9	2547.6	1879.7	1789.1
67.5°	654.5	681.4	965.0	1990.4	4774.7	7391.2	5011.4	2160.0	1119.4	797.2	716.6
70°	303.8	305.4	357.5	657.9	2087.8	4942.6	2391.6	810.6	421.3	334.0	310.5
72.5°	223.2	228.2	250.1	303.8	614.3	2092.8	785.4	332.3	246.7	218.2	213.1
75°	181.3	184.6	191.3	219.9	283.6	560.5	318.9	229.9	196.4	176.2	169.5
77.5°	139.3	139.3	154.4	167.8	188.0	261.8	211.5	182.9	159.4	139.3	134.3
80°	100.7	102.4	120.8	130.9	127.5	172.9	152.7	151.0	130.9	109.1	100.7
82.5°	58.7	63.8	87.3	94.0	90.6	102.4	110.8	117.5	102.4	75.5	68.8
85°	33.6	35.2	50.3	52.0	52.0	48.7	63.8	70.5	68.8	47.0	42.0
87.5°	10.1	10.1	13.4	13.4	15.1	16.8	25.2	30.2	33.6	23.5	21.8
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5	1713.5
2.5°	1740.4	1715.2	1716.9	1723.6	1701.8	1710.2	1735.3	1716.9	1711.9	1701.8	1696.7
5°	1732.0	1758.8	1748.8	1752.1	1747.1	1723.6	1720.2	1735.3	1743.7	1728.6	1758.8
7.5°	1790.7	1779.0	1765.6	1770.6	1758.8	1779.0	1792.4	1762.2	1777.3	1768.9	1752.1
10°	1824.3	1802.5	1812.5	1809.2	1800.8	1820.9	1807.5	1804.2	1790.7	1772.3	1799.1
12.5°	1836.0	1861.2	1878.0	1849.5	1854.5	1844.4	1836.0	1836.0	1820.9	1815.9	1820.9
15°	1888.1	1909.9	1903.2	1925.0	1896.5	1906.5	1916.6	1891.4	1904.9	1867.9	1896.5
17.5°	1983.7	1965.3	1988.8	1960.2	1970.3	1990.4	1958.6	1958.6	1968.6	1948.5	1923.3
20°	2044.2	2035.8	2027.4	2029.0	2012.3	2030.7	2020.7	2015.6	2000.5	2007.2	2020.7
22.5°	2101.2	2089.5	2092.8	2097.9	2109.6	2101.2	2096.2	2101.2	2064.3	2097.9	2050.9
25°	2171.7	2203.6	2193.5	2215.3	2181.8	2203.6	2201.9	2170.0	2190.2	2176.7	2166.7
27.5°	2289.2	2272.4	2287.5	2260.7	2284.1	2285.8	2265.7	2319.4	2295.9	2292.5	2285.8
30°	2440.2	2428.5	2418.4	2403.3	2421.8	2406.7	2423.4	2428.5	2406.7	2389.9	2358.0
32.5°	2525.8	2557.7	2569.5	2532.5	2534.2	2542.6	2527.5	2512.4	2525.8	2530.9	2525.8
35°	2646.7	2676.9	2683.6	2655.0	2639.9	2681.9	2651.7	2702.0	2658.4	2660.1	2614.8
37.5°	2787.6	2796.0	2853.1	2821.2	2807.8	2787.6	2843.0	2836.3	2846.4	2765.8	2806.1
40°	2947.1	2977.3	3009.2	2928.6	2926.9	2945.4	2942.0	2980.6	2962.2	2950.4	2921.9
42.5°	3121.6	3185.4	3190.4	3136.7	3103.2	3099.8	3116.6	3202.2	3203.8	3126.6	3093.1
45°	3353.2	3423.7	3405.2	3301.2	3264.3	3259.2	3341.5	3378.4	3410.3	3380.1	3351.5
47.5°	3641.9	3688.9	3675.4	3579.8	3460.6	3494.2	3574.8	3690.6	3657.0	3616.7	3583.1
50°	3950.7	4006.1	3977.5	3881.9	3767.8	3767.8	3866.8	4014.5	4004.4	3925.5	3895.3
52.5°	4293.1	4373.6	4439.1	4303.1	4207.5	4222.6	4378.7	4432.4	4407.2	4351.8	4326.6
55°	4548.2	4702.6	4836.8	4843.5	4848.6	4846.9	4887.2	4940.9	4761.3	4672.4	4581.7
57.5°	4486.1	4778.1	5237.9	5550.1	5642.4	5691.1	5677.6	5429.3	5004.7	4712.6	4742.8
60°	4043.0	4519.6	5261.4	6263.4	6934.7	6867.6	6622.5	5640.7	4870.4	4377.0	4314.9
62.5°	3225.7	3799.6	4867.0	6464.8	8314.2	8294.1	7011.9	5152.3	4058.1	3433.8	3395.2
64°	2430.2	3034.3	4341.7	6412.7	8797.6	8817.7	6912.9	4551.5	3175.3	2430.2	2371.4
65°	1859.5	2420.1	3826.5	6305.3	8693.5	8705.3	6637.6	3930.5	2413.4	1725.3	1661.5
67.5°	740.1	1030.5	2076.0	4781.4	7465.0	7433.1	4736.1	1901.5	923.1	600.8	589.1
70°	315.5	392.7	728.4	2265.7	4997.9	4905.6	2039.1	617.6	342.4	287.0	285.3
72.5°	216.5	240.0	312.2	699.8	2077.7	2029.0	580.7	287.0	233.3	214.8	214.8
75°	174.5	191.3	226.6	293.7	550.5	530.3	273.6	211.5	186.3	172.9	171.2
77.5°	135.9	152.7	177.9	203.1	251.7	250.1	182.9	159.4	144.3	134.3	130.9
80°	107.4	124.2	141.0	144.3	164.5	161.1	124.2	125.9	117.5	97.3	95.7
82.5°	73.8	100.7	112.4	102.4	97.3	97.3	88.9	88.9	82.2	60.4	55.4
85°	45.3	67.1	70.5	60.4	45.3	45.3	48.7	47.0	43.6	31.9	30.2
87.5°	23.5	31.9	28.5	23.5	15.1	15.1	13.4	10.1	10.1	8.4	8.4
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)