

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: P478936

Luminaire Tested: **IFLD-S-SA3A-740-U-5NQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P478936  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

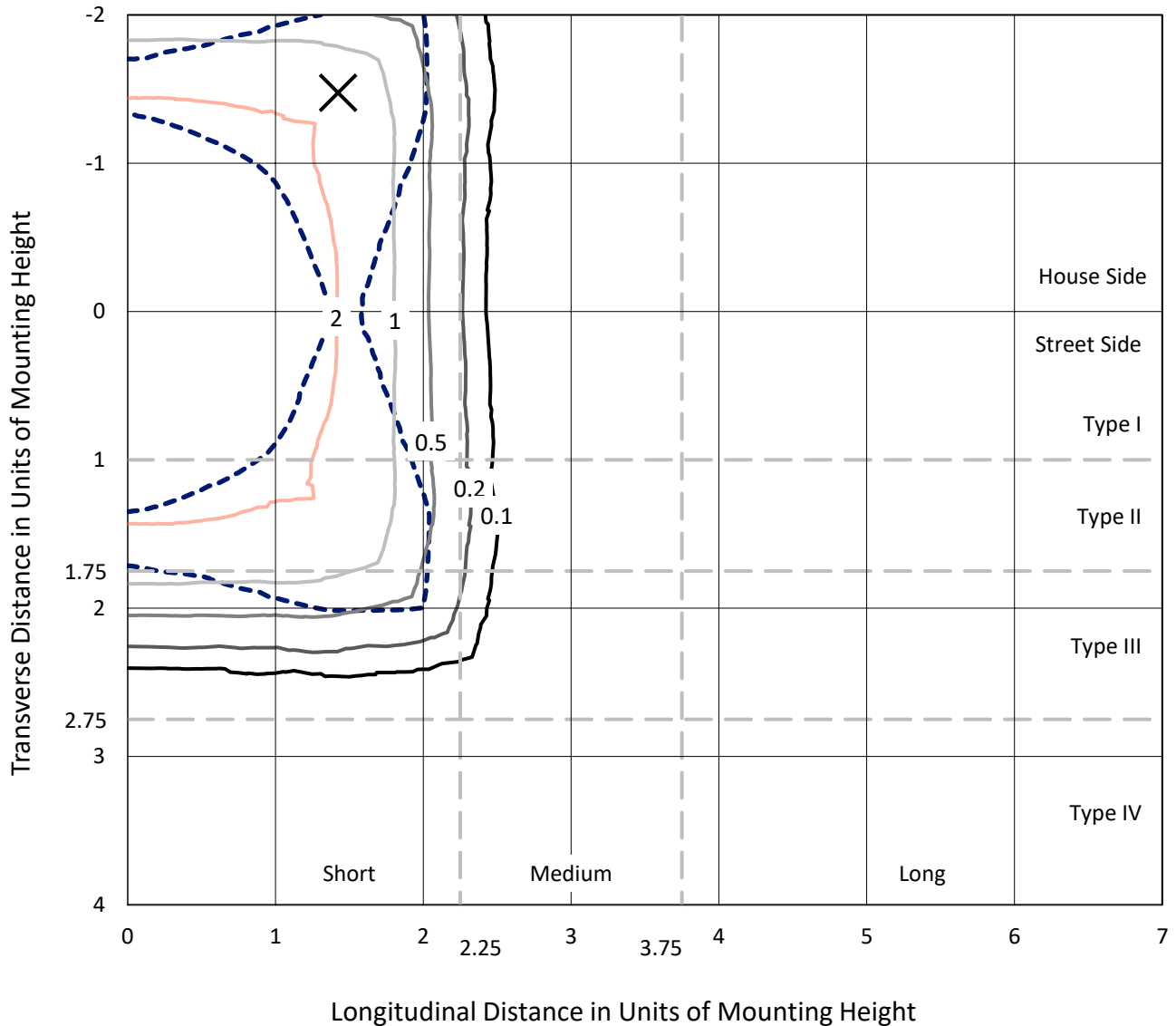
Lumens per Lamp: N/A  
Luminaire Lumens: 13722.4 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

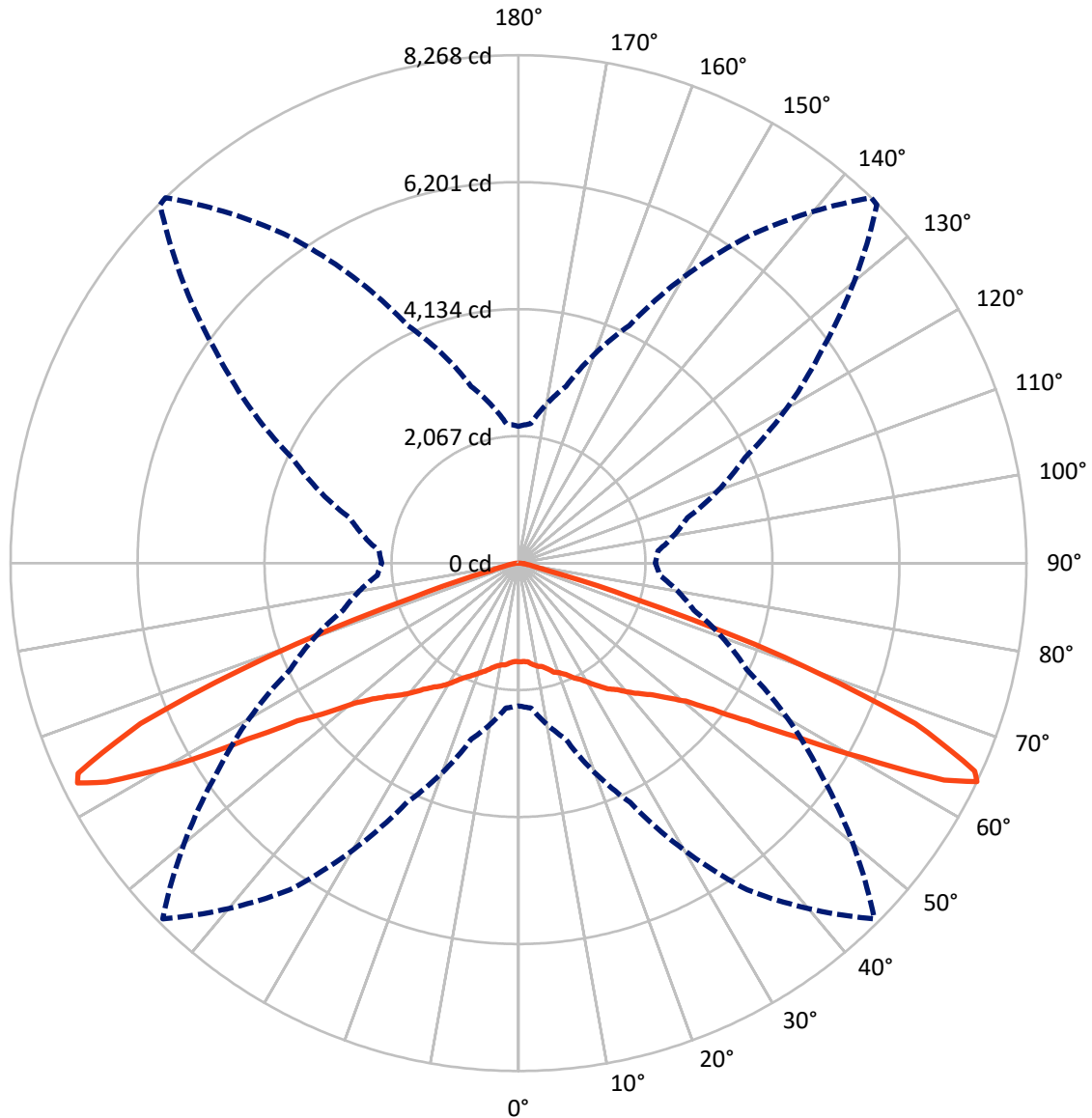
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	6867.7	0.0	6867.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6854.7	0.0	6854.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13722.4	0.0	13722.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	1.2
10°-20°	508.8	3.7
20°-30°	956.2	7.0
30°-40°	1577.0	11.5
40°-50°	2466.3	18.0
50°-60°	3984.9	29.0
60°-70°	3588.1	26.1
70°-80°	425.0	3.1
80°-90°	58.2	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°	13722.4	100.0
0°-180°	13722.4	100.0

**Coefficient of Utilization**



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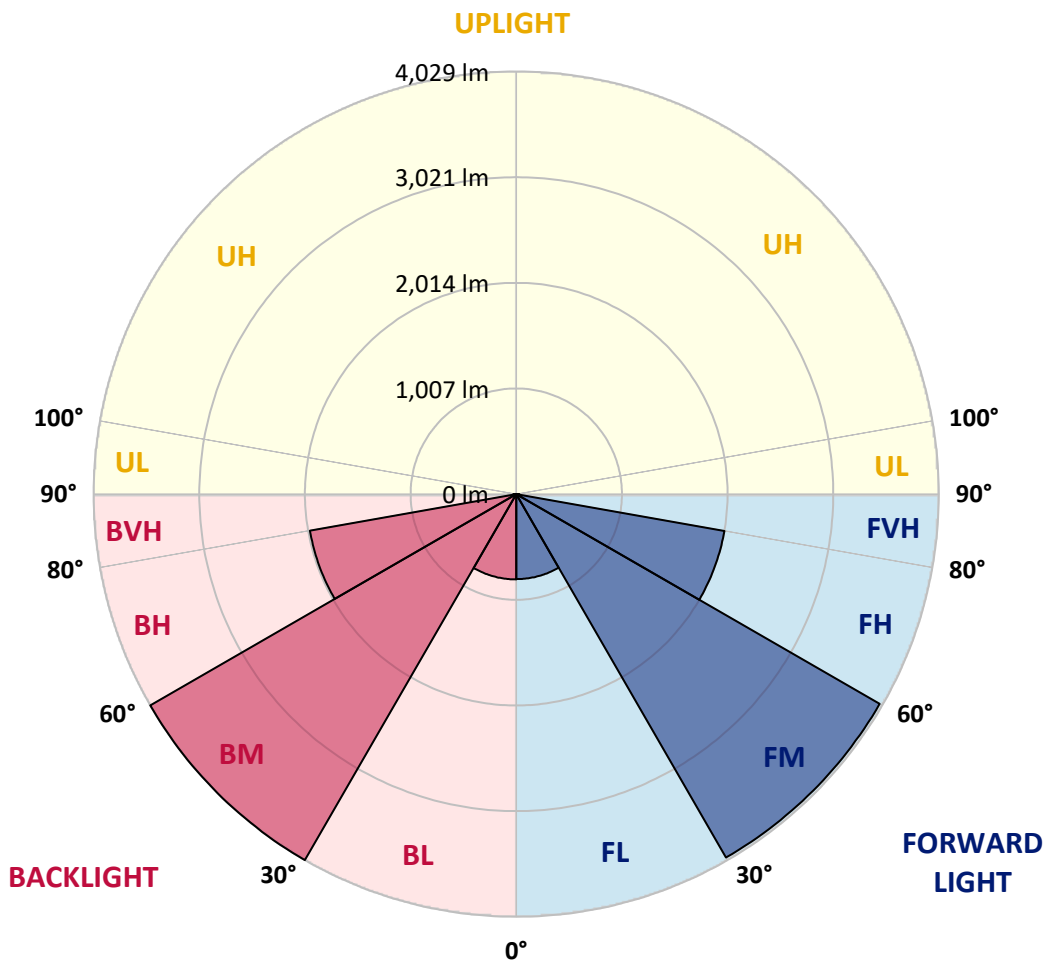
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.9	5.9			
FM (30°-60°)	3999.6	29.1			
FH (60°-80°)	2015.3	14.7			G2/5000
FVH (80°-90°)	29.8	0.2			G1/100
BL (0°-30°)	813.0	5.9	B2/1000		
BM (30°-60°)	4028.5	29.4	B3/5000		
BH (60°-80°)	1997.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	28.3	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1587.7	1590.9	1619.2	1608.2	1617.6	1600.3	1612.9	1639.7	1608.2	1631.8	1639.7
5°	1605.0	1609.8	1609.8	1620.8	1627.1	1623.9	1631.8	1620.8	1650.7	1638.1	1657.0
7.5°	1668.0	1660.1	1647.5	1657.0	1658.5	1666.4	1674.3	1688.4	1683.7	1672.7	1691.6
10°	1679.0	1672.7	1691.6	1693.2	1685.3	1679.0	1686.9	1686.9	1701.0	1704.2	1704.2
12.5°	1697.9	1704.2	1702.6	1715.2	1716.8	1712.0	1724.6	1748.2	1741.9	1746.7	1735.6
15°	1770.3	1762.4	1760.8	1773.4	1793.9	1764.0	1786.0	1784.4	1778.1	1787.6	1762.4
17.5°	1833.2	1808.0	1819.0	1839.5	1831.6	1837.9	1866.2	1841.1	1847.4	1836.3	1828.5
20°	1888.3	1867.8	1869.4	1877.3	1877.3	1896.1	1907.2	1897.7	1891.4	1889.9	1893.0
22.5°	1949.6	1926.0	1927.6	1960.7	1971.7	1965.4	1957.5	1973.2	1976.4	1963.8	1978.0
25°	1995.3	2020.5	2028.3	2044.1	2020.5	2037.8	2031.5	2061.4	2080.3	2055.1	2072.4
27.5°	2114.9	2103.9	2124.3	2122.7	2141.6	2124.3	2135.3	2144.8	2152.6	2154.2	2146.3
30°	2221.9	2226.6	2206.1	2261.2	2217.2	2245.5	2264.4	2269.1	2278.5	2278.5	2254.9
32.5°	2335.2	2325.7	2358.8	2346.2	2338.3	2360.3	2339.9	2404.4	2366.6	2388.7	2361.9
35°	2462.6	2462.6	2475.2	2509.8	2462.6	2448.5	2486.2	2513.0	2513.0	2473.6	2483.1
37.5°	2605.8	2593.2	2609.0	2653.0	2616.8	2569.6	2638.9	2649.9	2642.0	2631.0	2612.1
40°	2706.5	2703.4	2734.9	2793.1	2741.1	2731.7	2744.3	2774.2	2783.6	2794.7	2769.5
42.5°	2876.5	2890.6	2981.9	2967.7	2925.3	2892.2	2889.1	3000.8	2974.0	2945.7	2931.6
45°	3128.2	3115.7	3162.9	3164.4	3109.4	3037.0	3052.7	3155.0	3200.6	3137.7	3161.3
47.5°	3328.1	3334.4	3367.4	3435.1	3307.6	3232.1	3290.3	3455.5	3441.4	3417.8	3439.8
50°	3595.6	3623.9	3727.8	3704.2	3590.9	3498.0	3625.5	3781.3	3798.6	3712.0	3696.3
52.5°	3965.4	4009.4	4066.1	4085.0	3976.4	3943.4	3951.2	4144.8	4102.3	4018.9	3965.4
55°	4289.5	4310.0	4413.8	4569.6	4561.8	4402.8	4494.1	4566.5	4393.4	4221.9	4236.0
57.5°	4428.0	4437.5	4727.0	5038.6	5224.2	5260.4	5156.6	4912.7	4500.4	4169.9	4149.5
60°	4083.4	4173.1	4522.4	5225.8	6074.0	6492.5	5801.7	4952.0	4250.2	3848.9	3819.0
62.5°	3263.6	3268.3	3787.6	4854.4	6602.7	7699.5	6048.8	4582.2	3583.0	3128.2	3008.7
64°	2324.2	2368.2	2964.6	4297.4	6492.5	8190.4	6018.9	4099.1	2953.6	2308.4	2225.0
65°	1668.0	1729.3	2305.3	3730.9	6234.5	8132.2	5929.2	3683.7	2388.7	1762.4	1677.4
67.5°	613.7	638.9	904.8	1866.2	4476.8	6930.0	4698.7	2025.2	1049.6	747.4	671.9
70°	284.8	286.4	335.2	616.8	1957.5	4634.1	2242.3	760.0	395.0	313.1	291.1
72.5°	209.3	214.0	234.5	284.8	575.9	1962.2	736.4	311.6	231.3	204.6	199.8
75°	169.9	173.1	179.4	206.1	265.9	525.6	299.0	215.6	184.1	165.2	158.9
77.5°	130.6	130.6	144.8	157.4	176.2	245.5	198.3	171.5	149.5	130.6	125.9
80°	94.4	96.0	113.3	122.7	119.6	162.1	143.2	141.6	122.7	102.3	94.4
82.5°	55.1	59.8	81.8	88.1	85.0	96.0	103.9	110.1	96.0	70.8	64.5
85°	31.5	33.0	47.2	48.8	48.8	45.6	59.8	66.1	64.5	44.1	39.3
87.5°	9.4	9.4	12.6	12.6	14.2	15.7	23.6	28.3	31.5	22.0	20.5
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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1631.8	1608.2	1609.8	1616.1	1595.6	1603.5	1627.1	1609.8	1605.0	1595.6	1590.9
5°	1623.9	1649.1	1639.7	1642.8	1638.1	1616.1	1612.9	1627.1	1634.9	1620.8	1649.1
7.5°	1679.0	1668.0	1655.4	1660.1	1649.1	1668.0	1680.6	1652.2	1666.4	1658.5	1642.8
10°	1710.5	1690.0	1699.4	1696.3	1688.4	1707.3	1694.7	1691.6	1679.0	1661.7	1686.9
12.5°	1721.5	1745.1	1760.8	1734.1	1738.8	1729.3	1721.5	1721.5	1707.3	1702.6	1707.3
15°	1770.3	1790.7	1784.4	1804.9	1778.1	1787.6	1797.0	1773.4	1786.0	1751.4	1778.1
17.5°	1860.0	1842.6	1864.7	1837.9	1847.4	1866.2	1836.3	1836.3	1845.8	1826.9	1803.3
20°	1916.6	1908.7	1900.9	1902.4	1886.7	1904.0	1894.6	1889.9	1875.7	1882.0	1894.6
22.5°	1970.1	1959.1	1962.2	1967.0	1978.0	1970.1	1965.4	1970.1	1935.5	1967.0	1922.9
25°	2036.2	2066.1	2056.6	2077.1	2045.6	2066.1	2064.5	2034.6	2053.5	2040.9	2031.5
27.5°	2146.3	2130.6	2144.8	2119.6	2141.6	2143.2	2124.3	2174.7	2152.6	2149.5	2143.2
30°	2288.0	2276.9	2267.5	2253.3	2270.7	2256.5	2272.2	2276.9	2256.5	2240.8	2210.9
32.5°	2368.2	2398.1	2409.1	2374.5	2376.1	2384.0	2369.8	2355.6	2368.2	2372.9	2368.2
35°	2481.5	2509.8	2516.1	2489.4	2475.2	2514.6	2486.2	2533.4	2492.5	2494.1	2451.6
37.5°	2613.7	2621.6	2675.1	2645.2	2632.6	2613.7	2665.6	2659.3	2668.8	2593.2	2631.0
40°	2763.2	2791.5	2821.4	2745.9	2744.3	2761.6	2758.5	2794.7	2777.3	2766.3	2739.6
42.5°	2926.8	2986.6	2991.3	2941.0	2909.5	2906.4	2922.1	3002.4	3003.9	2931.6	2900.1
45°	3144.0	3210.1	3192.8	3095.2	3060.6	3055.9	3133.0	3167.6	3197.5	3169.2	3142.4
47.5°	3414.6	3458.7	3446.1	3356.4	3244.7	3276.2	3351.7	3460.3	3428.8	3391.0	3359.6
50°	3704.2	3756.1	3729.3	3639.7	3532.7	3532.7	3625.5	3764.0	3754.5	3680.6	3652.2
52.5°	4025.2	4100.7	4162.1	4034.6	3944.9	3959.1	4105.4	4155.8	4132.2	4080.3	4056.6
55°	4264.4	4409.1	4535.0	4541.3	4546.0	4544.5	4582.2	4632.6	4464.2	4380.8	4295.8
57.5°	4206.1	4479.9	4911.1	5203.8	5290.3	5336.0	5323.4	5090.5	4692.4	4418.6	4446.9
60°	3790.7	4237.6	4933.1	5872.5	6502.0	6439.0	6209.3	5288.8	4566.5	4103.9	4045.6
62.5°	3024.4	3562.6	4563.3	6061.4	7795.4	7776.6	6574.4	4830.8	3804.9	3219.5	3183.3
64°	2278.5	2845.0	4070.8	6012.6	8248.6	8267.5	6481.5	4267.5	2977.2	2278.5	2223.4
65°	1743.5	2269.1	3587.7	5911.9	8151.1	8162.1	6223.4	3685.3	2262.8	1617.6	1557.8
67.5°	693.9	966.2	1946.5	4483.1	6999.2	6969.3	4440.6	1782.8	865.5	563.3	552.3
70°	295.8	368.2	682.9	2124.3	4686.1	4599.5	1911.9	579.1	321.0	269.1	267.5
72.5°	203.0	225.0	292.7	656.2	1948.1	1902.4	544.5	269.1	218.7	201.4	201.4
75°	163.7	179.4	212.4	275.4	516.1	497.2	256.5	198.3	174.7	162.1	160.5
77.5°	127.5	143.2	166.8	190.4	236.0	234.5	171.5	149.5	135.3	125.9	122.7
80°	100.7	116.4	132.2	135.3	154.2	151.1	116.4	118.0	110.1	91.3	89.7
82.5°	69.2	94.4	105.4	96.0	91.3	91.3	83.4	83.4	77.1	56.6	51.9
85°	42.5	62.9	66.1	56.6	42.5	42.5	45.6	44.1	40.9	29.9	28.3
87.5°	22.0	29.9	26.8	22.0	14.2	14.2	12.6	9.4	9.4	7.9	7.9
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)