

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: P479402

Luminaire Tested: **IFLD-S-SA2D-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

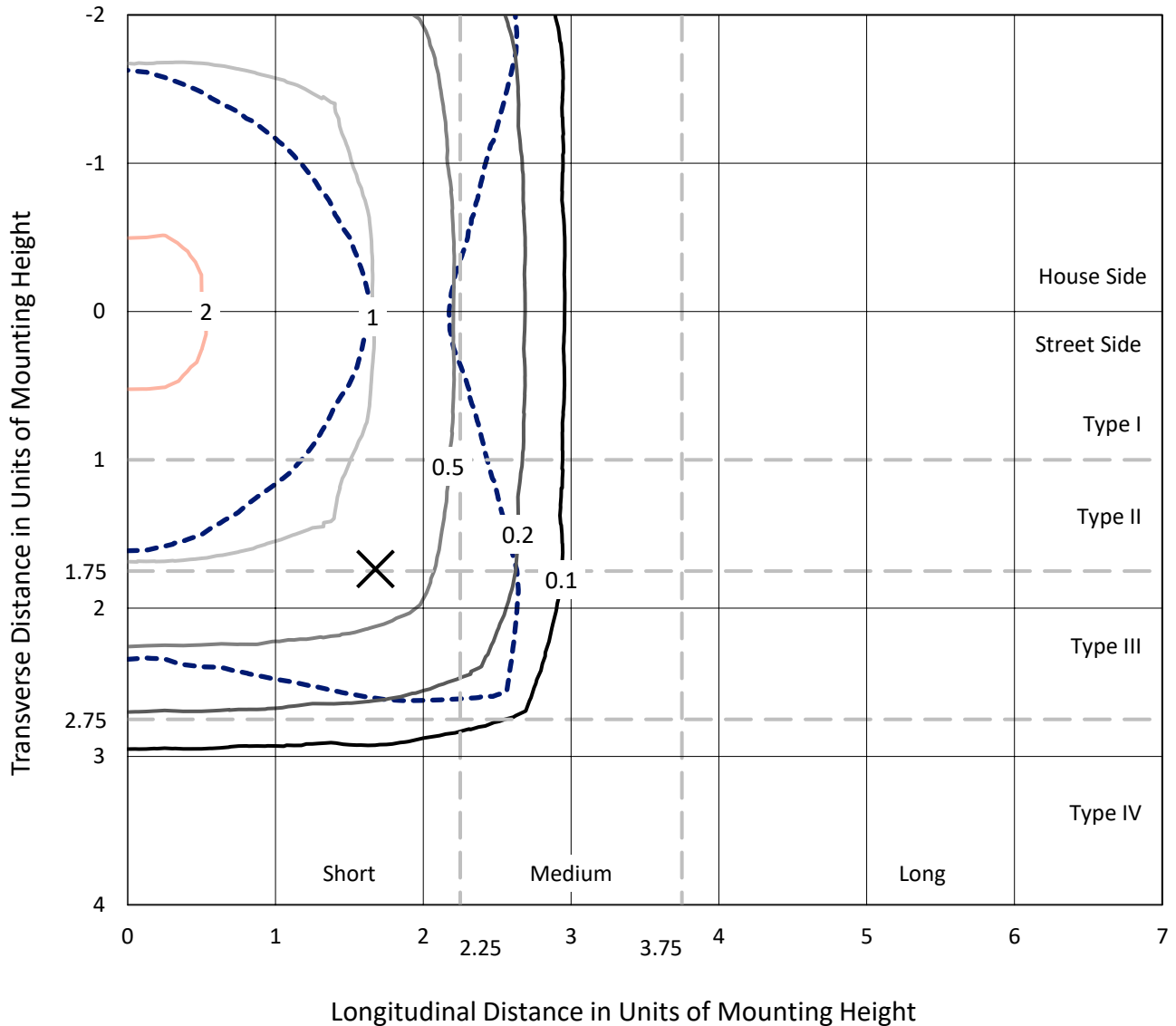
Lumens per Lamp: N/A
Luminaire Lumens: 16148.2 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

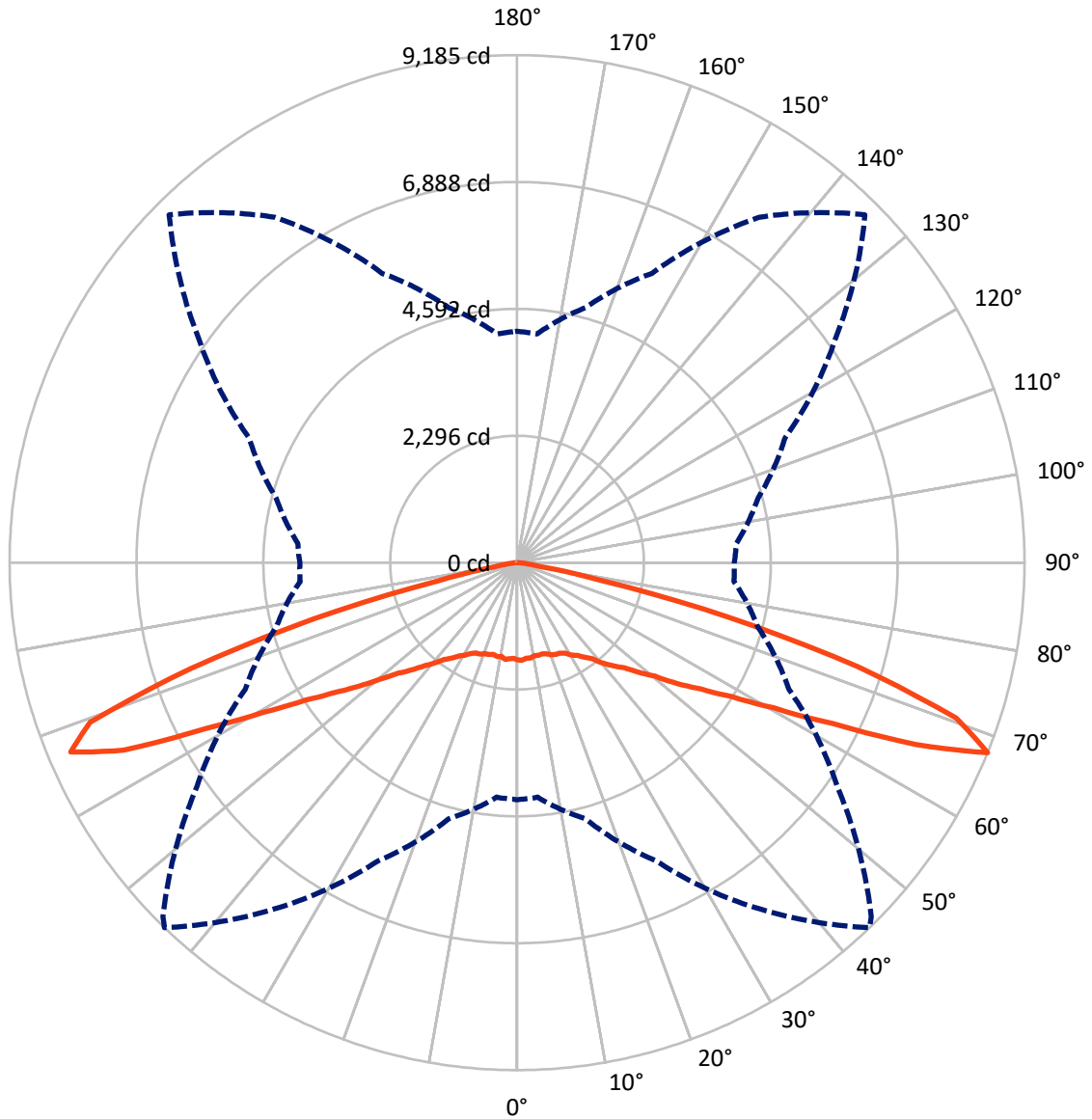
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	8053.4	0.0	8053.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8094.8	0.0	8094.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	16148.2	0.0	16148.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.0
10°-20°	487.6	3.0
20°-30°	829.3	5.1
30°-40°	1314.8	8.1
40°-50°	2144.0	13.3
50°-60°	3661.6	22.7
60°-70°	5569.3	34.5
70°-80°	1877.2	11.6
80°-90°	97.5	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°	16148.2	100.0
0°-180°	16148.2	100.0

Coefficient of Utilization



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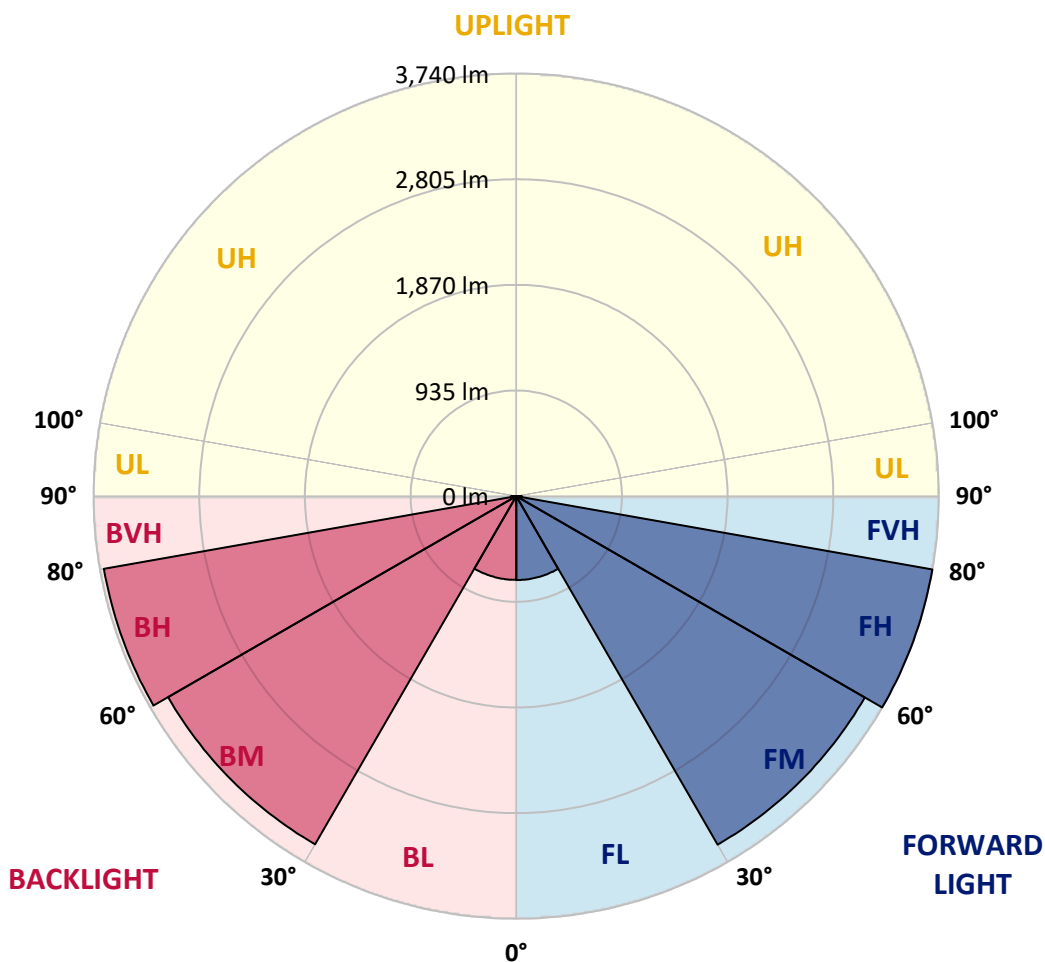
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.7	4.6			
FM (30°-60°)	3562.1	22.1			
FH (60°-80°)	3740.1	23.2			G2/5000
FVH (80°-90°)	49.9	0.3			G1/100
BL (0°-30°)	741.2	4.6	B2/1000		
BM (30°-60°)	3558.3	22.0	B3/5000		
BH (60°-80°)	3706.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	47.6	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°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1723.4	1743.6	1758.4	1756.5	1762.1	1767.6	1760.2	1771.3	1763.9	1776.8	1784.2
5°	1756.5	1751.0	1752.9	1741.8	1767.6	1738.1	1738.1	1752.9	1771.3	1749.2	1762.1
7.5°	1736.3	1732.6	1723.4	1739.9	1745.5	1745.5	1760.2	1732.6	1763.9	1771.3	1773.1
10°	1714.1	1693.9	1721.5	1738.1	1741.8	1712.3	1725.2	1732.6	1723.4	1732.6	1738.1
12.5°	1695.7	1706.8	1706.8	1706.8	1701.2	1721.5	1734.4	1732.6	1714.1	1730.7	1701.2
15°	1693.9	1688.3	1704.9	1719.7	1710.5	1714.1	1719.7	1736.3	1701.2	1708.6	1708.6
17.5°	1692.0	1699.4	1704.9	1703.1	1734.4	1734.4	1728.9	1717.8	1745.5	1730.7	1710.5
20°	1699.4	1693.9	1708.6	1714.1	1736.3	1780.5	1763.9	1754.7	1739.9	1721.5	1721.5
22.5°	1708.6	1704.9	1725.2	1749.2	1791.6	1802.6	1800.8	1789.7	1763.9	1741.8	1738.1
25°	1741.8	1708.6	1730.7	1776.8	1791.6	1813.7	1828.4	1813.7	1778.7	1784.2	1751.0
27.5°	1791.6	1786.0	1815.5	1846.9	1834.0	1854.2	1841.3	1852.4	1854.2	1826.6	1793.4
30°	1850.5	1834.0	1852.4	1913.2	1918.7	1940.9	1918.7	1889.2	1898.5	1874.5	1857.9
32.5°	1935.3	1929.8	1964.8	2005.4	2012.7	2001.7	1990.6	2007.2	1968.5	1950.1	1920.6
35°	1990.6	2014.6	2057.0	2088.3	2112.3	2101.2	2106.7	2090.2	2099.4	2060.7	2047.8
37.5°	2154.7	2145.4	2154.7	2208.1	2213.6	2208.1	2213.6	2232.1	2219.2	2186.0	2152.8
40°	2309.5	2294.7	2316.9	2377.7	2374.0	2392.4	2355.6	2375.8	2375.8	2313.2	2300.3
42.5°	2425.6	2475.4	2501.2	2550.9	2569.4	2552.8	2545.4	2549.1	2589.6	2515.9	2488.3
45°	2665.2	2663.4	2740.8	2768.4	2716.8	2713.1	2698.4	2742.6	2770.3	2727.9	2716.8
47.5°	2925.1	2938.0	2982.2	2993.3	3024.6	2967.5	2967.5	2973.0	3070.7	2971.2	2919.6
50°	3159.2	3175.8	3264.2	3350.9	3291.9	3231.1	3255.0	3284.5	3338.0	3244.0	3199.7
52.5°	3443.0	3533.4	3592.3	3638.4	3680.8	3638.4	3583.1	3616.3	3721.4	3596.0	3540.7
55°	3852.2	3924.1	3979.4	4064.2	4099.2	4042.1	4036.5	4032.8	4091.8	3959.1	3883.6
57.5°	4309.3	4279.8	4368.3	4499.2	4626.3	4571.1	4554.5	4558.2	4572.9	4384.9	4327.8
60°	4877.0	4910.2	5015.3	5129.5	5264.1	5341.5	5232.8	5170.1	5183.0	4926.8	4838.3
62.5°	5201.4	5275.1	5512.9	5905.5	6176.5	6417.9	6434.5	6027.2	5754.4	5256.7	4880.7
65°	5044.7	5033.7	5481.6	6207.8	7234.4	7936.7	7831.6	6843.7	5890.8	5100.0	4595.0
67.5°	4290.9	4261.4	4803.3	5955.3	7651.0	9184.5	9064.7	7074.1	5430.0	4512.1	3940.7
70°	2764.8	2757.4	3345.3	4539.7	6830.8	8432.5	8476.7	6425.3	4419.9	3304.8	2738.9
72.5°	1004.5	1065.4	1406.3	2440.4	4639.3	6451.1	6478.7	4757.2	2541.7	1528.0	1126.2
75°	370.5	381.5	444.2	792.6	2114.1	3961.0	4064.2	2307.6	903.2	497.7	405.5
77.5°	213.8	215.7	237.8	294.9	626.7	1546.4	1609.1	700.4	350.2	265.4	245.1
80°	145.6	143.8	167.7	191.7	250.7	438.7	466.3	293.1	221.2	184.3	154.8
82.5°	84.8	90.3	123.5	136.4	153.0	193.5	197.2	182.5	165.9	136.4	101.4
85°	51.6	42.4	68.2	75.6	88.5	86.6	86.6	99.5	106.9	95.8	57.1
87.5°	12.9	12.9	16.6	18.4	24.0	18.4	20.3	38.7	51.6	47.9	29.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9	1763.9
2.5°	1767.6	1762.1	1765.8	1786.0	1773.1	1734.4	1743.6	1763.9	1747.3	1738.1	1736.3
5°	1760.2	1771.3	1758.4	1762.1	1775.0	1743.6	1749.2	1775.0	1763.9	1767.6	1747.3
7.5°	1762.1	1767.6	1756.5	1739.9	1739.9	1765.8	1751.0	1754.7	1738.1	1765.8	1728.9
10°	1751.0	1736.3	1723.4	1732.6	1728.9	1721.5	1716.0	1727.0	1710.5	1734.4	1708.6
12.5°	1717.8	1721.5	1717.8	1714.1	1721.5	1739.9	1710.5	1714.1	1688.3	1692.0	1704.9
15°	1704.9	1716.0	1712.3	1732.6	1741.8	1714.1	1736.3	1714.1	1693.9	1682.8	1703.1
17.5°	1710.5	1727.0	1721.5	1736.3	1719.7	1739.9	1743.6	1734.4	1710.5	1701.2	1710.5
20°	1716.0	1710.5	1717.8	1743.6	1767.6	1747.3	1747.3	1741.8	1719.7	1706.8	1706.8
22.5°	1728.9	1719.7	1730.7	1751.0	1758.4	1789.7	1762.1	1749.2	1712.3	1679.1	1710.5
25°	1754.7	1760.2	1767.6	1760.2	1800.8	1797.1	1793.4	1784.2	1727.0	1728.9	1723.4
27.5°	1804.5	1773.1	1782.3	1826.6	1832.1	1846.9	1828.4	1845.0	1784.2	1786.0	1749.2
30°	1865.3	1832.1	1861.6	1900.3	1898.5	1926.1	1916.9	1920.6	1878.2	1854.2	1804.5
32.5°	1931.6	1928.0	1946.4	1970.3	1979.6	1994.3	1992.5	1992.5	1966.7	1904.0	1913.2
35°	2005.4	2031.2	2053.3	2079.1	2082.8	2101.2	2075.4	2079.1	2053.3	2007.2	2022.0
37.5°	2151.0	2149.1	2173.1	2204.4	2208.1	2193.4	2213.6	2204.4	2169.4	2138.1	2114.1
40°	2320.5	2283.7	2305.8	2379.5	2385.1	2359.3	2357.4	2355.6	2329.8	2261.6	2246.8
42.5°	2468.0	2515.9	2512.2	2536.2	2519.6	2506.7	2552.8	2527.0	2506.7	2434.8	2421.9
45°	2657.8	2672.6	2720.5	2797.9	2718.7	2718.7	2750.0	2729.7	2718.7	2665.2	2615.5
47.5°	2893.8	2906.7	3002.5	3008.0	2956.4	2921.4	3019.1	3022.8	2976.7	2936.2	2875.3
50°	3170.2	3175.8	3262.4	3350.9	3293.7	3227.4	3326.9	3365.6	3262.4	3207.1	3131.5
52.5°	3474.4	3457.8	3529.7	3695.6	3640.3	3620.0	3726.9	3736.1	3596.0	3509.4	3529.7
55°	3824.6	3802.5	3997.8	4110.3	4075.2	4038.4	4086.3	4108.4	3996.0	3854.1	3903.8
57.5°	4278.0	4289.0	4386.7	4497.3	4554.5	4563.7	4585.8	4563.7	4449.4	4305.6	4259.6
60°	4731.4	4764.6	4954.4	5162.7	5181.1	5343.3	5313.9	5203.3	5041.1	4836.5	4845.7
62.5°	4899.1	4871.5	5177.5	5686.2	6119.3	6416.1	6285.2	5892.6	5516.6	5144.3	5171.9
65°	4561.8	4630.0	5046.6	5842.8	6782.9	7957.0	7260.2	6174.6	5415.2	4934.2	4880.7
67.5°	3931.5	3983.1	4512.1	5352.6	7020.6	8904.3	7628.9	5776.5	4775.6	4152.7	4185.8
70°	2738.9	2764.8	3282.7	4384.9	6366.3	8403.0	6882.4	4436.5	3297.4	2628.4	2665.2
72.5°	1102.2	1164.9	1505.9	2641.3	4700.1	6384.7	4633.7	2327.9	1367.6	1017.4	923.4
75°	407.3	409.2	481.1	908.7	2232.1	4012.6	2090.2	748.3	436.8	357.6	341.0
77.5°	235.9	234.1	250.7	328.1	647.0	1566.7	593.5	293.1	237.8	213.8	204.6
80°	147.5	145.6	171.4	217.5	283.8	429.5	250.7	182.5	160.4	138.2	138.2
82.5°	94.0	95.8	134.6	160.4	173.3	189.8	145.6	129.0	119.8	79.3	77.4
85°	60.8	55.3	94.0	106.9	95.8	84.8	81.1	68.2	62.7	38.7	42.4
87.5°	27.6	29.5	47.9	53.5	35.0	20.3	20.3	14.7	14.7	9.2	9.2
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)