

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: P479172

Luminaire Tested: **IFLD-S-SA3C-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479172
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

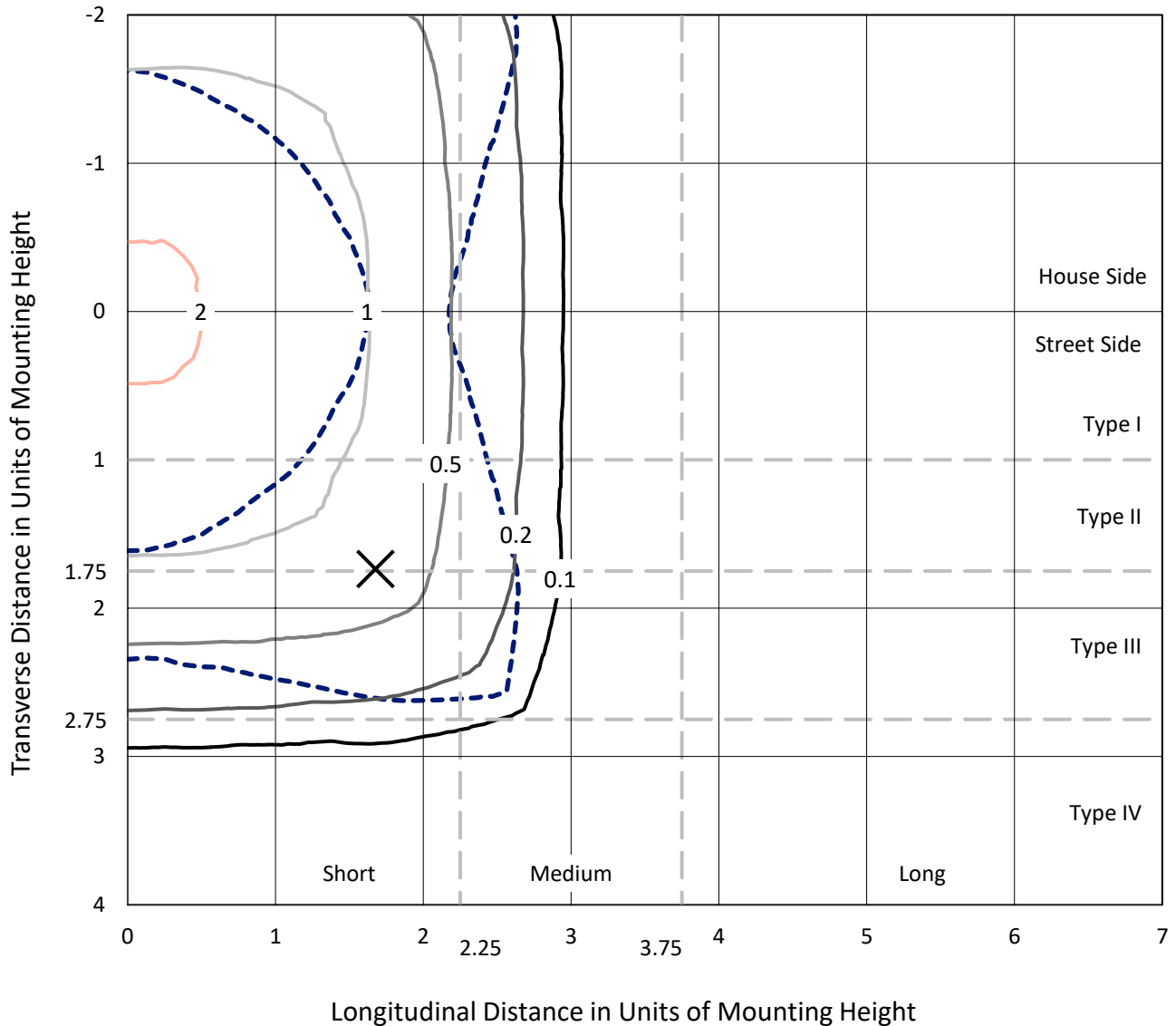
Lumens per Lamp: N/A
Luminaire Lumens: 15749.5 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8
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

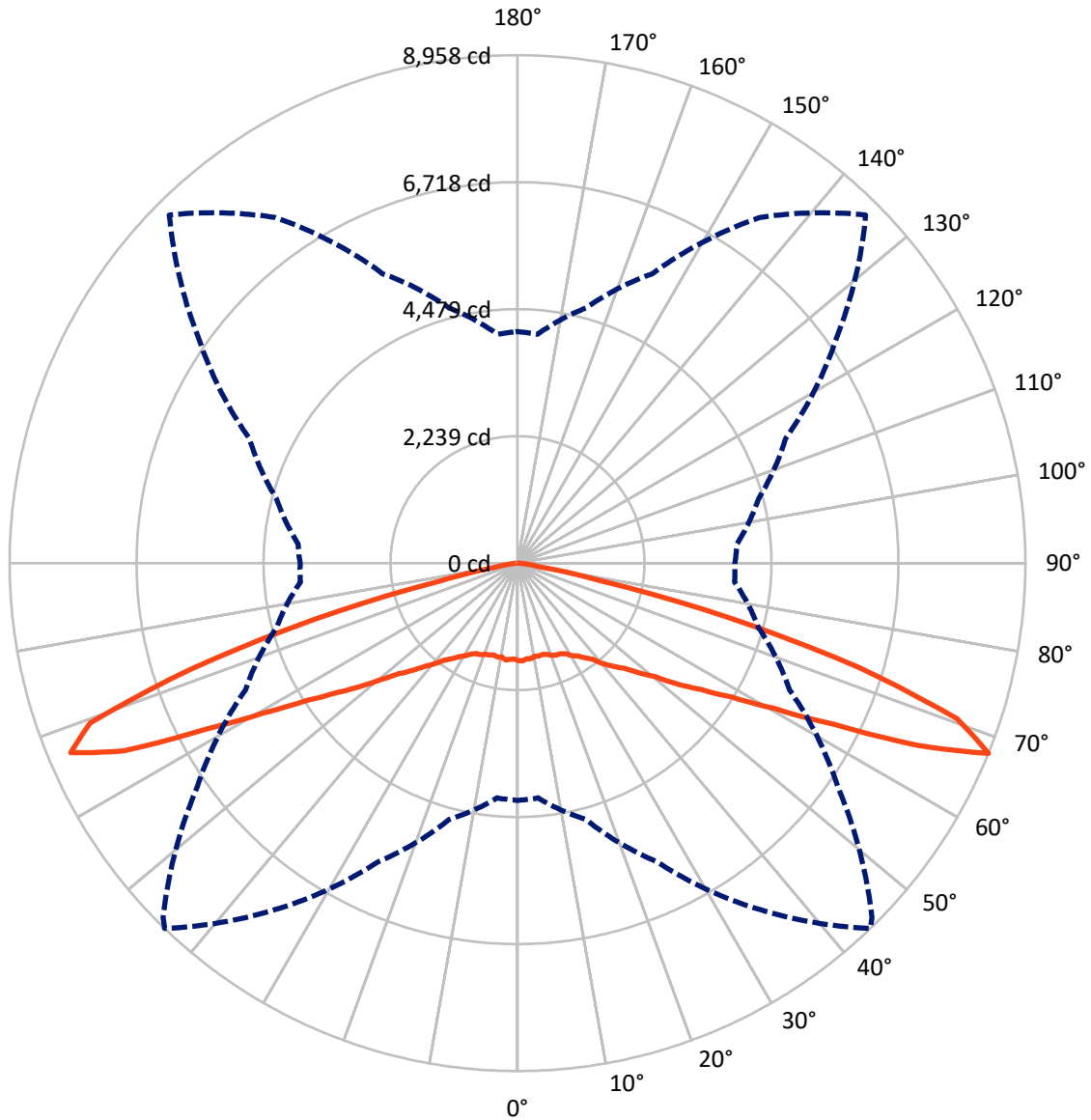
× Max cd
 - - - 1/2 Max cd



Based on 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	7854.6	0.0	7854.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7894.9	0.0	7894.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	15749.5	0.0	15749.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.0
10°-20°	475.6	3.0
20°-30°	808.8	5.1
30°-40°	1282.4	8.1
40°-50°	2091.0	13.3
50°-60°	3571.2	22.7
60°-70°	5431.8	34.5
70°-80°	1830.8	11.6
80°-90°	95.1	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°	15749.5	100.0
0°-180°	15749.5	100.0

Coefficient of Utilization



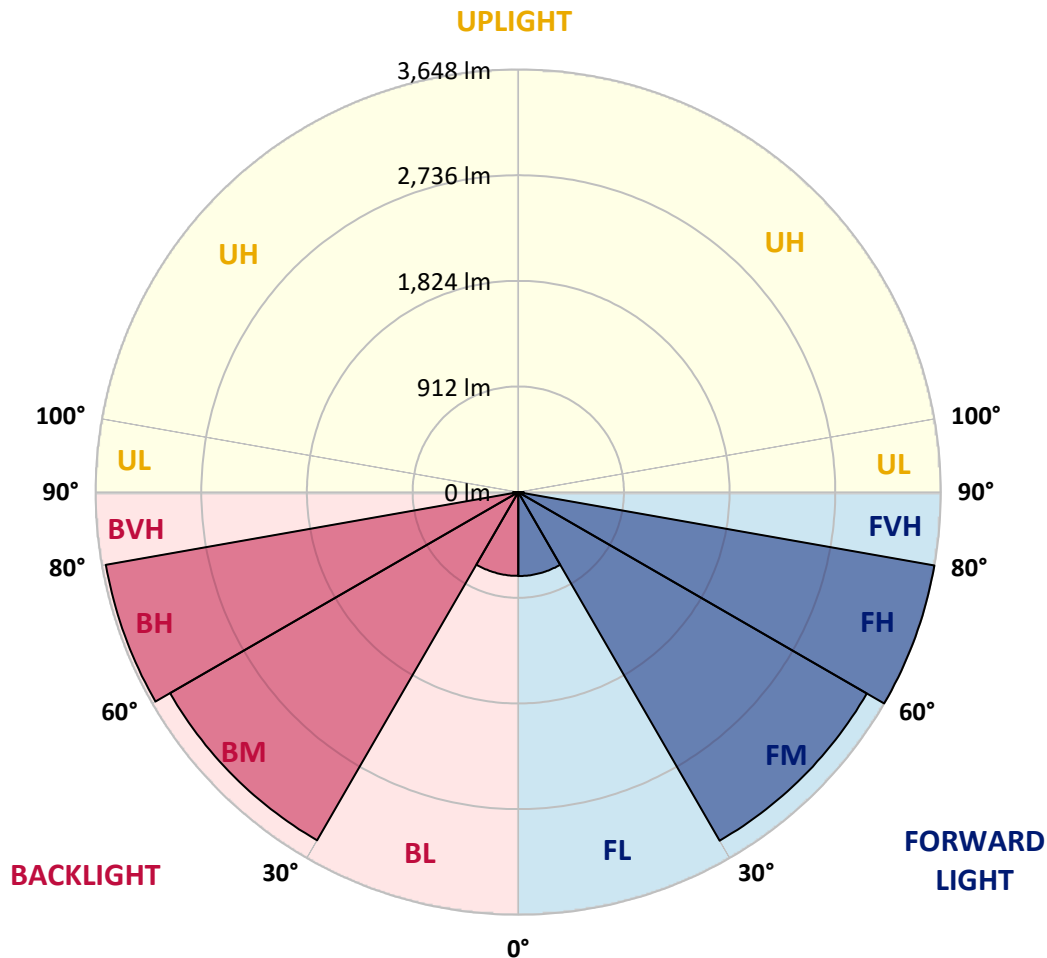
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.3	4.6			
FM (30°-60°)	3474.2	22.1			
FH (60°-80°)	3647.7	23.2			G2/5000
FVH (80°-90°)	48.6	0.3			G1/100
BL (0°-30°)	722.9	4.6	B2/1000		
BM (30°-60°)	3470.4	22.0	B3/5000		
BH (60°-80°)	3614.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.4	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°	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4
2.5°	1680.8	1700.6	1715.0	1713.2	1718.6	1724.0	1716.8	1727.5	1720.4	1732.9	1740.1
5°	1713.2	1707.8	1709.6	1698.8	1724.0	1695.2	1695.2	1709.6	1727.5	1706.0	1718.6
7.5°	1693.4	1689.8	1680.8	1697.0	1702.4	1702.4	1716.8	1689.8	1720.4	1727.5	1729.3
10°	1671.8	1652.0	1679.0	1695.2	1698.8	1670.0	1682.6	1689.8	1680.8	1689.8	1695.2
12.5°	1653.8	1664.6	1664.6	1664.6	1659.2	1679.0	1691.6	1689.8	1671.8	1688.0	1659.2
15°	1652.0	1646.7	1662.8	1677.2	1668.2	1671.8	1677.2	1693.4	1659.2	1666.4	1666.4
17.5°	1650.2	1657.4	1662.8	1661.0	1691.6	1691.6	1686.2	1675.4	1702.4	1688.0	1668.2
20°	1657.4	1652.0	1666.4	1671.8	1693.4	1736.5	1720.4	1711.4	1697.0	1679.0	1679.0
22.5°	1666.4	1662.8	1682.6	1706.0	1747.3	1758.1	1756.3	1745.5	1720.4	1698.8	1695.2
25°	1698.8	1666.4	1688.0	1732.9	1747.3	1768.9	1783.3	1768.9	1734.7	1740.1	1707.8
27.5°	1747.3	1741.9	1770.7	1801.2	1788.7	1808.4	1795.9	1806.6	1808.4	1781.5	1749.1
30°	1804.8	1788.7	1806.6	1866.0	1871.4	1892.9	1871.4	1842.6	1851.6	1828.2	1812.0
32.5°	1887.5	1882.1	1916.3	1955.8	1963.0	1952.3	1941.5	1957.6	1919.9	1901.9	1873.2
35°	1941.5	1964.8	2006.2	2036.7	2060.1	2049.3	2054.7	2038.5	2047.5	2009.8	1997.2
37.5°	2101.5	2092.5	2101.5	2153.6	2159.0	2153.6	2159.0	2177.0	2164.4	2132.0	2099.7
40°	2252.5	2238.1	2259.7	2319.0	2315.4	2333.4	2297.4	2317.2	2317.2	2256.1	2243.5
42.5°	2365.7	2414.3	2439.4	2488.0	2505.9	2489.8	2482.6	2486.2	2525.7	2453.8	2426.8
45°	2599.4	2597.6	2673.1	2700.1	2649.7	2646.1	2631.8	2674.9	2701.9	2660.5	2649.7
47.5°	2852.9	2865.5	2908.6	2919.4	2950.0	2894.2	2894.2	2899.6	2994.9	2897.8	2847.5
50°	3081.2	3097.4	3183.6	3268.1	3210.6	3151.3	3174.7	3203.4	3255.6	3163.9	3120.7
52.5°	3358.0	3446.1	3503.6	3548.6	3589.9	3548.6	3494.6	3527.0	3629.5	3507.2	3453.3
55°	3757.1	3827.2	3881.1	3963.8	3998.0	3942.3	3936.9	3933.3	3990.8	3861.4	3787.7
57.5°	4202.9	4174.2	4260.4	4388.1	4512.1	4458.2	4442.0	4445.6	4460.0	4276.6	4220.9
60°	4756.6	4789.0	4891.4	5002.9	5134.1	5209.6	5103.5	5042.4	5055.0	4805.1	4718.8
62.5°	5073.0	5144.9	5376.8	5759.7	6023.9	6259.4	6275.6	5878.3	5612.3	5126.9	4760.2
65°	4920.2	4909.4	5346.2	6054.5	7055.8	7740.7	7638.2	6674.7	5745.3	4974.1	4481.6
67.5°	4184.9	4156.2	4684.7	5808.2	7462.1	8957.7	8840.9	6899.4	5295.9	4400.7	3843.4
70°	2696.5	2689.3	3262.7	4427.6	6662.1	8224.3	8267.4	6266.6	4310.8	3223.2	2671.3
72.5°	979.7	1039.0	1371.6	2380.1	4524.7	6291.8	6318.8	4639.7	2479.0	1490.3	1098.4
75°	361.3	372.1	433.2	773.0	2061.9	3863.2	3963.8	2250.7	880.9	485.4	395.5
77.5°	208.5	210.3	231.9	287.6	611.2	1508.2	1569.4	683.1	341.6	258.9	239.1
80°	142.0	140.2	163.6	187.0	244.5	427.8	454.8	285.8	215.7	179.8	151.0
82.5°	82.7	88.1	120.4	133.0	149.2	188.8	192.3	178.0	161.8	133.0	98.9
85°	50.3	41.3	66.5	73.7	86.3	84.5	84.5	97.1	104.3	93.5	55.7
87.5°	12.6	12.6	16.2	18.0	23.4	18.0	19.8	37.8	50.3	46.7	28.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4	1720.4
2.5°	1724.0	1718.6	1722.2	1741.9	1729.3	1691.6	1700.6	1720.4	1704.2	1695.2	1693.4
5°	1716.8	1727.5	1715.0	1718.6	1731.1	1700.6	1706.0	1731.1	1720.4	1724.0	1704.2
7.5°	1718.6	1724.0	1713.2	1697.0	1697.0	1722.2	1707.8	1711.4	1695.2	1722.2	1686.2
10°	1707.8	1693.4	1680.8	1689.8	1686.2	1679.0	1673.6	1684.4	1668.2	1691.6	1666.4
12.5°	1675.4	1679.0	1675.4	1671.8	1679.0	1697.0	1668.2	1671.8	1646.7	1650.2	1662.8
15°	1662.8	1673.6	1670.0	1689.8	1698.8	1671.8	1693.4	1671.8	1652.0	1641.3	1661.0
17.5°	1668.2	1684.4	1679.0	1693.4	1677.2	1697.0	1700.6	1691.6	1668.2	1659.2	1668.2
20°	1673.6	1668.2	1675.4	1700.6	1724.0	1704.2	1704.2	1698.8	1677.2	1664.6	1664.6
22.5°	1686.2	1677.2	1688.0	1707.8	1715.0	1745.5	1718.6	1706.0	1670.0	1637.7	1668.2
25°	1711.4	1716.8	1724.0	1716.8	1756.3	1752.7	1749.1	1740.1	1684.4	1686.2	1680.8
27.5°	1759.9	1729.3	1738.3	1781.5	1786.9	1801.2	1783.3	1799.5	1740.1	1741.9	1706.0
30°	1819.2	1786.9	1815.6	1853.4	1851.6	1878.5	1869.6	1873.2	1831.8	1808.4	1759.9
32.5°	1883.9	1880.3	1898.3	1921.7	1930.7	1945.1	1943.3	1943.3	1918.1	1857.0	1866.0
35°	1955.8	1981.0	2002.6	2027.8	2031.3	2049.3	2024.2	2027.8	2002.6	1957.6	1972.0
37.5°	2097.9	2096.1	2119.4	2150.0	2153.6	2139.2	2159.0	2150.0	2115.8	2085.3	2061.9
40°	2263.2	2227.3	2248.9	2320.8	2326.2	2301.0	2299.2	2297.4	2272.2	2205.7	2191.3
42.5°	2407.1	2453.8	2450.2	2473.6	2457.4	2444.8	2489.8	2464.6	2444.8	2374.7	2362.1
45°	2592.2	2606.6	2653.3	2728.8	2651.5	2651.5	2682.1	2662.3	2651.5	2599.4	2550.9
47.5°	2822.3	2834.9	2928.4	2933.8	2883.4	2849.3	2944.6	2948.2	2903.2	2863.7	2804.3
50°	3092.0	3097.4	3181.8	3268.1	3212.4	3147.7	3244.8	3282.5	3181.8	3127.9	3054.2
52.5°	3388.6	3372.4	3442.5	3604.3	3550.4	3530.6	3634.9	3643.8	3507.2	3422.7	3442.5
55°	3730.1	3708.6	3899.1	4008.8	3974.6	3938.7	3985.4	4007.0	3897.3	3758.9	3807.4
57.5°	4172.4	4183.1	4278.4	4386.3	4442.0	4451.0	4472.6	4451.0	4339.5	4199.3	4154.4
60°	4614.6	4646.9	4832.1	5035.2	5053.2	5211.4	5182.6	5074.8	4916.6	4717.0	4726.0
62.5°	4778.2	4751.2	5049.6	5545.8	5968.2	6257.6	6130.0	5747.1	5380.4	5017.3	5044.2
65°	4449.2	4515.7	4922.0	5698.6	6615.4	7760.5	7081.0	6022.1	5281.5	4812.3	4760.2
67.5°	3834.4	3884.7	4400.7	5220.4	6847.3	8684.5	7440.5	5633.8	4657.7	4050.1	4082.5
70°	2671.3	2696.5	3201.6	4276.6	6209.1	8195.5	6712.4	4327.0	3216.0	2563.5	2599.4
72.5°	1075.0	1136.1	1468.7	2576.0	4584.0	6227.1	4519.3	2270.4	1333.9	992.3	900.6
75°	397.3	399.1	469.2	886.2	2177.0	3913.5	2038.5	729.8	426.0	348.7	332.6
77.5°	230.1	228.3	244.5	320.0	631.0	1528.0	578.8	285.8	231.9	208.5	199.5
80°	143.8	142.0	167.2	212.1	276.8	418.9	244.5	178.0	156.4	134.8	134.8
82.5°	91.7	93.5	131.2	156.4	169.0	185.2	142.0	125.8	116.8	77.3	75.5
85°	59.3	53.9	91.7	104.3	93.5	82.7	79.1	66.5	61.1	37.8	41.3
87.5°	27.0	28.8	46.7	52.1	34.2	19.8	19.8	14.4	14.4	9.0	9.0
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)