

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: P479191

Luminaire Tested: **IFLD-M-SA4B-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479191
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

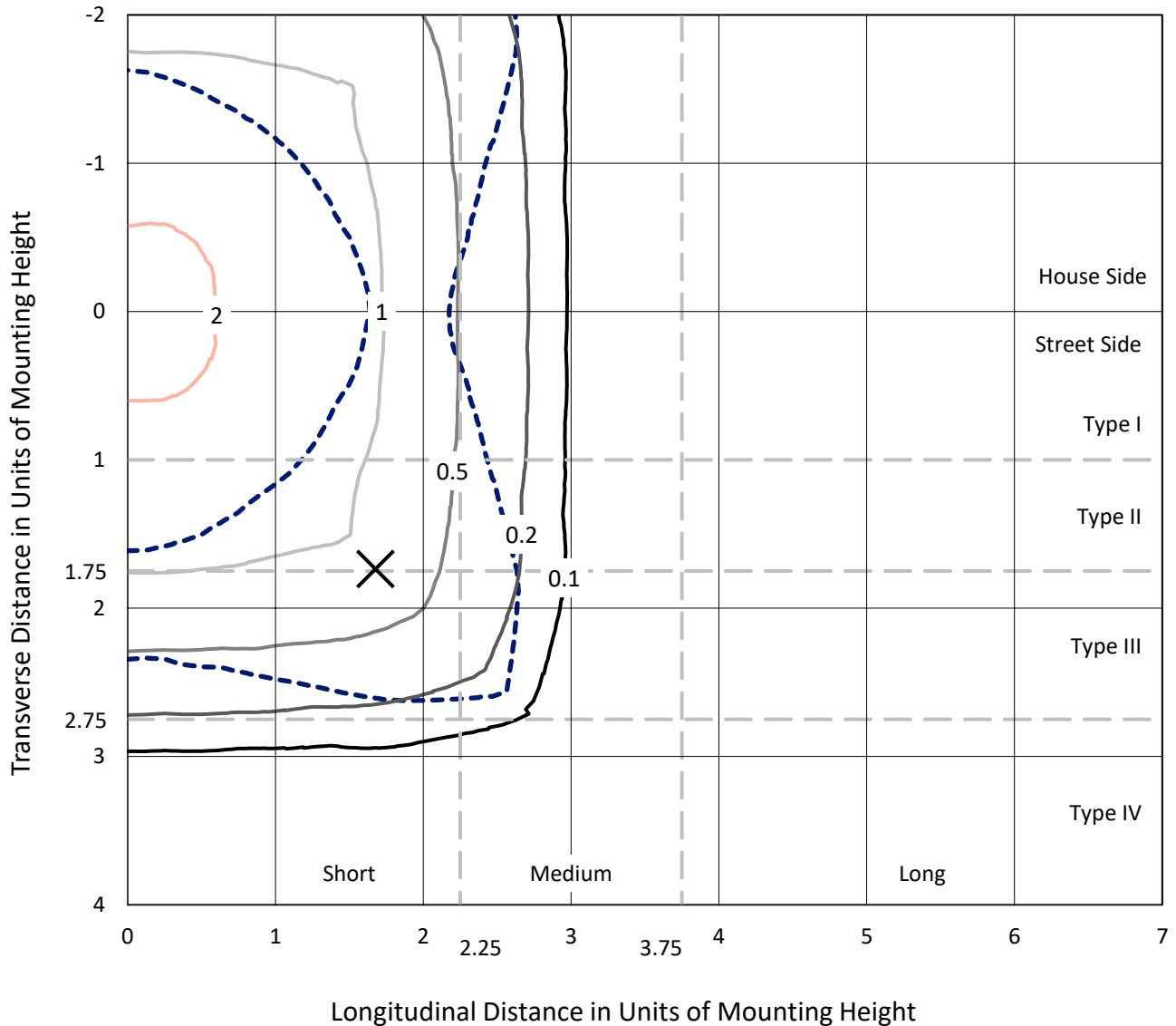
Lumens per Lamp: N/A
Luminaire Lumens: 16981.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P479191
 CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

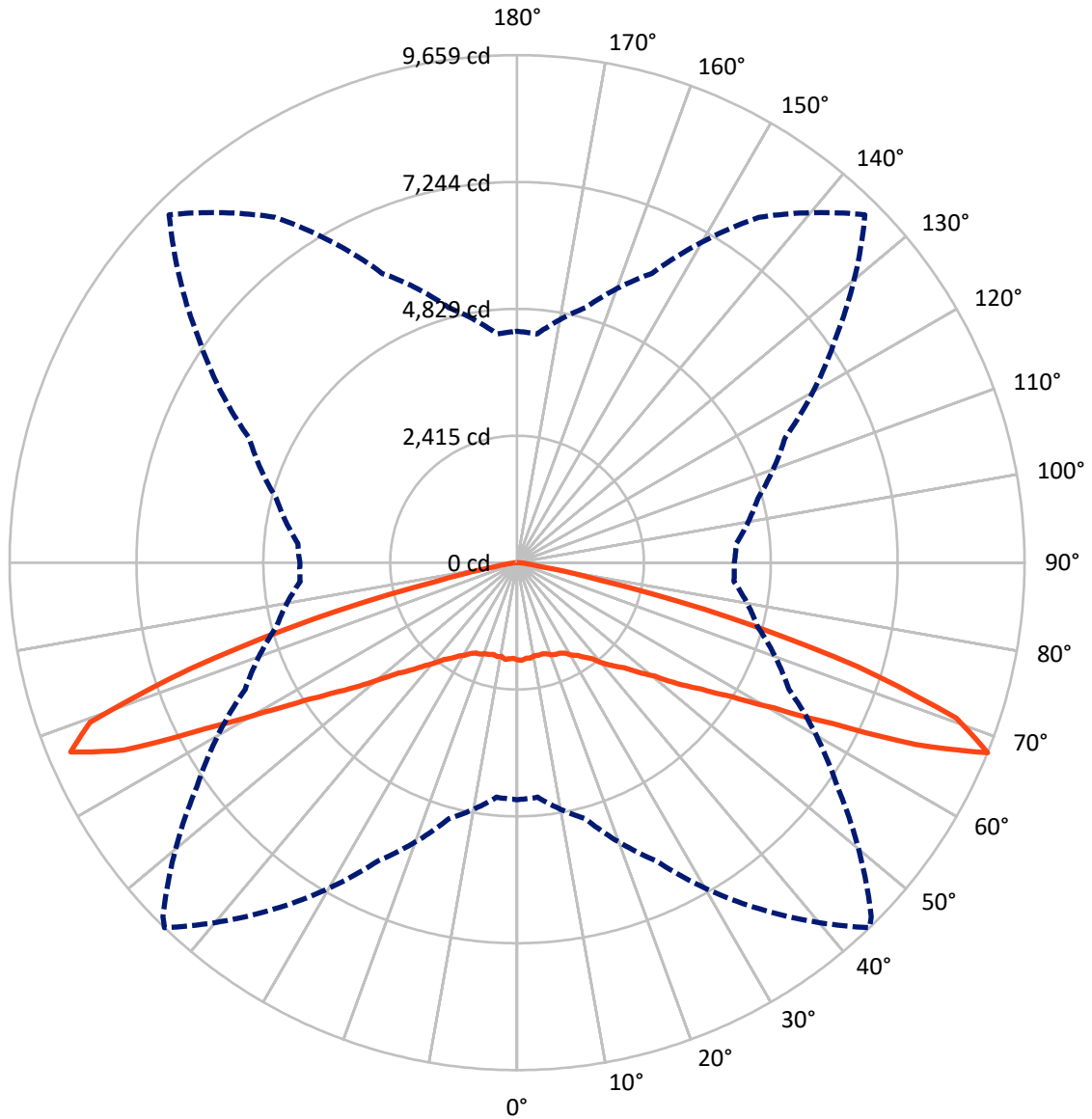
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

REPORT NUMBER: P479191
CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479191

CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8469.2	0.0	8469.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8512.7	0.0	8512.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	16981.8	0.0	16981.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	512.8	3.0
20°-30°	872.1	5.1
30°-40°	1382.7	8.1
40°-50°	2254.7	13.3
50°-60°	3850.6	22.7
60°-70°	5856.8	34.5
70°-80°	1974.1	11.6
80°-90°	102.5	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°	16981.8	100.0
0°-180°	16981.8	100.0

Coefficient of Utilization



REPORT NUMBER: P479191

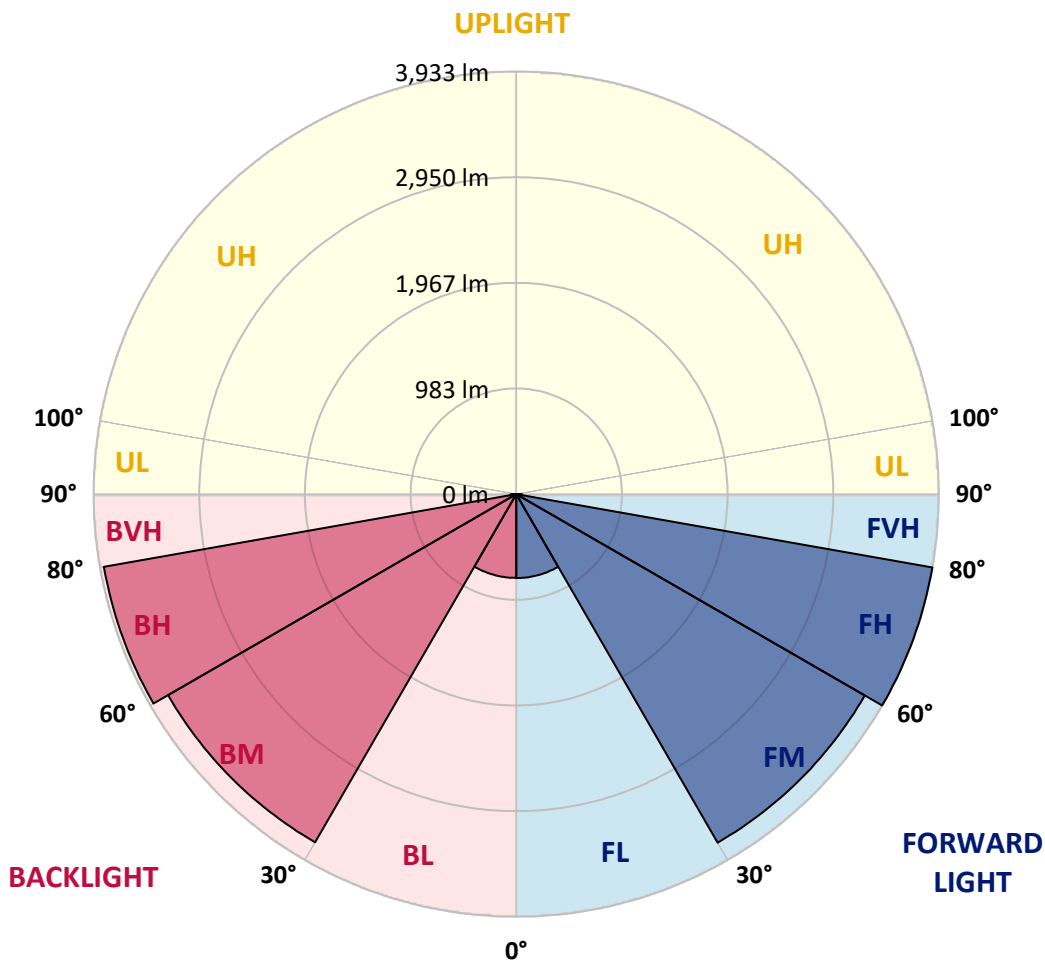
CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.0	4.6			
FM (30°-60°)	3746.0	22.1			
FH (60°-80°)	3933.2	23.2			G2/5000
FVH (80°-90°)	52.4	0.3			G1/100
BL (0°-30°)	779.4	4.6	B2/1000		
BM (30°-60°)	3742.0	22.0	B3/5000		
BH (60°-80°)	3897.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	50.1	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





REPORT NUMBER: P479191
 CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1812.3	1833.6	1849.2	1847.2	1853.0	1858.8	1851.1	1862.7	1855.0	1868.5	1876.3
5°	1847.2	1841.4	1843.3	1831.7	1858.8	1827.8	1827.8	1843.3	1862.7	1839.5	1853.0
7.5°	1825.9	1822.0	1812.3	1829.8	1835.6	1835.6	1851.1	1822.0	1855.0	1862.7	1864.7
10°	1802.6	1781.3	1810.4	1827.8	1831.7	1800.7	1814.3	1822.0	1812.3	1822.0	1827.8
12.5°	1783.3	1794.9	1794.9	1794.9	1789.1	1810.4	1824.0	1822.0	1802.6	1820.1	1789.1
15°	1781.3	1775.5	1792.9	1808.5	1798.8	1802.6	1808.5	1825.9	1789.1	1796.8	1796.8
17.5°	1779.4	1787.1	1792.9	1791.0	1824.0	1824.0	1818.1	1806.5	1835.6	1820.1	1798.8
20°	1787.1	1781.3	1796.8	1802.6	1825.9	1872.4	1855.0	1845.3	1829.8	1810.4	1810.4
22.5°	1796.8	1792.9	1814.3	1839.5	1884.0	1895.7	1893.7	1882.1	1855.0	1831.7	1827.8
25°	1831.7	1796.8	1820.1	1868.5	1884.0	1907.3	1922.8	1907.3	1870.5	1876.3	1841.4
27.5°	1884.0	1878.2	1909.2	1942.2	1928.6	1949.9	1936.4	1948.0	1949.9	1920.9	1886.0
30°	1946.1	1928.6	1948.0	2012.0	2017.8	2041.0	2017.8	1986.8	1996.5	1971.3	1953.8
32.5°	2035.2	2029.4	2066.2	2108.9	2116.6	2105.0	2093.4	2110.8	2070.1	2050.7	2019.7
35°	2093.4	2118.6	2163.2	2196.1	2221.3	2209.7	2215.5	2198.1	2207.7	2167.0	2153.5
37.5°	2265.9	2256.2	2265.9	2322.1	2327.9	2322.1	2327.9	2347.3	2333.7	2298.8	2264.0
40°	2428.7	2413.2	2436.5	2500.4	2496.6	2515.9	2477.2	2498.5	2498.5	2432.6	2419.0
42.5°	2550.8	2603.2	2630.3	2682.6	2702.0	2684.6	2676.8	2680.7	2723.3	2645.8	2616.7
45°	2802.8	2800.9	2882.3	2911.4	2857.1	2853.2	2837.7	2884.2	2913.3	2868.7	2857.1
47.5°	3076.1	3089.7	3136.2	3147.8	3180.8	3120.7	3120.7	3126.5	3229.2	3124.6	3070.3
50°	3322.3	3339.7	3432.8	3523.9	3461.8	3397.9	3423.1	3454.1	3510.3	3411.4	3364.9
52.5°	3620.8	3715.8	3777.8	3826.2	3870.8	3826.2	3768.1	3803.0	3913.5	3781.7	3723.5
55°	4051.1	4126.7	4184.8	4274.0	4310.8	4250.7	4244.9	4241.0	4303.1	4163.5	4084.0
57.5°	4531.8	4500.8	4593.8	4731.4	4865.2	4807.0	4789.6	4793.5	4809.0	4611.3	4551.2
60°	5128.8	5163.7	5274.2	5394.3	5535.8	5617.2	5502.9	5437.0	5450.6	5181.1	5088.1
62.5°	5469.9	5547.5	5797.5	6210.4	6495.3	6749.2	6766.7	6338.3	6051.4	5528.1	5132.7
65°	5305.2	5293.5	5764.6	6528.3	7607.9	8346.4	8235.9	7197.0	6194.9	5363.3	4832.2
67.5°	4512.4	4481.4	5051.3	6262.7	8046.0	9658.6	9532.7	7439.3	5710.3	4745.0	4144.1
70°	2907.5	2899.7	3518.0	4774.1	7183.4	8867.8	8914.3	6757.0	4648.1	3475.4	2880.3
72.5°	1056.4	1120.3	1478.9	2566.3	4878.7	6784.1	6813.2	5002.8	2672.9	1606.9	1184.3
75°	389.6	401.2	467.1	833.5	2223.3	4165.4	4274.0	2426.8	949.8	523.3	426.4
77.5°	224.8	226.8	250.0	310.1	659.0	1626.2	1692.2	736.6	368.3	279.1	257.8
80°	153.1	151.2	176.4	201.6	263.6	461.3	490.4	308.2	232.6	193.8	162.8
82.5°	89.2	95.0	129.9	143.4	160.9	203.5	207.4	191.9	174.4	143.4	106.6
85°	54.3	44.6	71.7	79.5	93.0	91.1	91.1	104.7	112.4	100.8	60.1
87.5°	13.6	13.6	17.4	19.4	25.2	19.4	21.3	40.7	54.3	50.4	31.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479191
 CATALOG NUMBER: IFLD-M-SA4B-722-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0	1855.0
2.5°	1858.8	1853.0	1856.9	1878.2	1864.7	1824.0	1833.6	1855.0	1837.5	1827.8	1825.9
5°	1851.1	1862.7	1849.2	1853.0	1866.6	1833.6	1839.5	1866.6	1855.0	1858.8	1837.5
7.5°	1853.0	1858.8	1847.2	1829.8	1829.8	1856.9	1841.4	1845.3	1827.8	1856.9	1818.1
10°	1841.4	1825.9	1812.3	1822.0	1818.1	1810.4	1804.6	1816.2	1798.8	1824.0	1796.8
12.5°	1806.5	1810.4	1806.5	1802.6	1810.4	1829.8	1798.8	1802.6	1775.5	1779.4	1792.9
15°	1792.9	1804.6	1800.7	1822.0	1831.7	1802.6	1825.9	1802.6	1781.3	1769.7	1791.0
17.5°	1798.8	1816.2	1810.4	1825.9	1808.5	1829.8	1833.6	1824.0	1798.8	1789.1	1798.8
20°	1804.6	1798.8	1806.5	1833.6	1858.8	1837.5	1837.5	1831.7	1808.5	1794.9	1794.9
22.5°	1818.1	1808.5	1820.1	1841.4	1849.2	1882.1	1853.0	1839.5	1800.7	1765.8	1798.8
25°	1845.3	1851.1	1858.8	1851.1	1893.7	1889.9	1886.0	1876.3	1816.2	1818.1	1812.3
27.5°	1897.6	1864.7	1874.4	1920.9	1926.7	1942.2	1922.8	1940.3	1876.3	1878.2	1839.5
30°	1961.6	1926.7	1957.7	1998.4	1996.5	2025.5	2015.9	2019.7	1975.1	1949.9	1897.6
32.5°	2031.4	2027.5	2046.9	2072.1	2081.8	2097.3	2095.3	2095.3	2068.2	2002.3	2012.0
35°	2108.9	2136.0	2159.3	2186.4	2190.3	2209.7	2182.5	2186.4	2159.3	2110.8	2126.3
37.5°	2262.0	2260.1	2285.3	2318.2	2322.1	2306.6	2327.9	2318.2	2281.4	2248.5	2223.3
40°	2440.3	2401.6	2424.8	2502.4	2508.2	2481.0	2479.1	2477.2	2450.0	2378.3	2362.8
42.5°	2595.4	2645.8	2641.9	2667.1	2649.7	2636.1	2684.6	2657.4	2636.1	2560.5	2547.0
45°	2795.1	2810.6	2861.0	2942.4	2859.0	2859.0	2892.0	2870.7	2859.0	2802.8	2750.5
47.5°	3043.2	3056.7	3157.5	3163.3	3109.1	3072.2	3175.0	3178.8	3130.4	3087.7	3023.8
50°	3333.9	3339.7	3430.8	3523.9	3463.8	3394.0	3498.7	3539.4	3430.8	3372.7	3293.2
52.5°	3653.7	3636.3	3711.9	3886.3	3828.2	3806.9	3919.3	3929.0	3781.7	3690.6	3711.9
55°	4022.0	3998.8	4204.2	4322.5	4285.6	4246.9	4297.3	4320.5	4202.3	4053.0	4105.4
57.5°	4498.8	4510.5	4613.2	4729.5	4789.6	4799.3	4822.5	4799.3	4679.1	4527.9	4479.5
60°	4975.7	5010.6	5210.2	5429.2	5448.6	5619.2	5588.2	5471.9	5301.3	5086.1	5095.8
62.5°	5152.1	5123.0	5444.7	5979.7	6435.2	6747.3	6609.7	6196.8	5801.4	5409.8	5438.9
65°	4797.3	4869.1	5307.1	6144.5	7133.0	8367.7	7635.0	6493.4	5694.8	5188.9	5132.7
67.5°	4134.4	4188.7	4745.0	5628.9	7383.1	9364.0	8022.7	6074.7	5022.2	4367.0	4401.9
70°	2880.3	2907.5	3452.1	4611.3	6695.0	8836.8	7237.7	4665.5	3467.7	2764.0	2802.8
72.5°	1159.1	1225.0	1583.6	2777.6	4942.7	6714.3	4872.9	2448.1	1438.2	1070.0	971.1
75°	428.4	430.3	505.9	955.6	2347.3	4219.7	2198.1	787.0	459.4	376.0	358.6
77.5°	248.1	246.2	263.6	345.0	680.3	1647.6	624.1	308.2	250.0	224.8	215.2
80°	155.1	153.1	180.3	228.7	298.5	451.6	263.6	191.9	168.6	145.4	145.4
82.5°	98.9	100.8	141.5	168.6	182.2	199.6	153.1	135.7	126.0	83.3	81.4
85°	64.0	58.1	98.9	112.4	100.8	89.2	85.3	71.7	65.9	40.7	44.6
87.5°	29.1	31.0	50.4	56.2	36.8	21.3	21.3	15.5	15.5	9.7	9.7
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)