

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: P479249

Luminaire Tested: **IFLD-S-SA3B-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479249
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

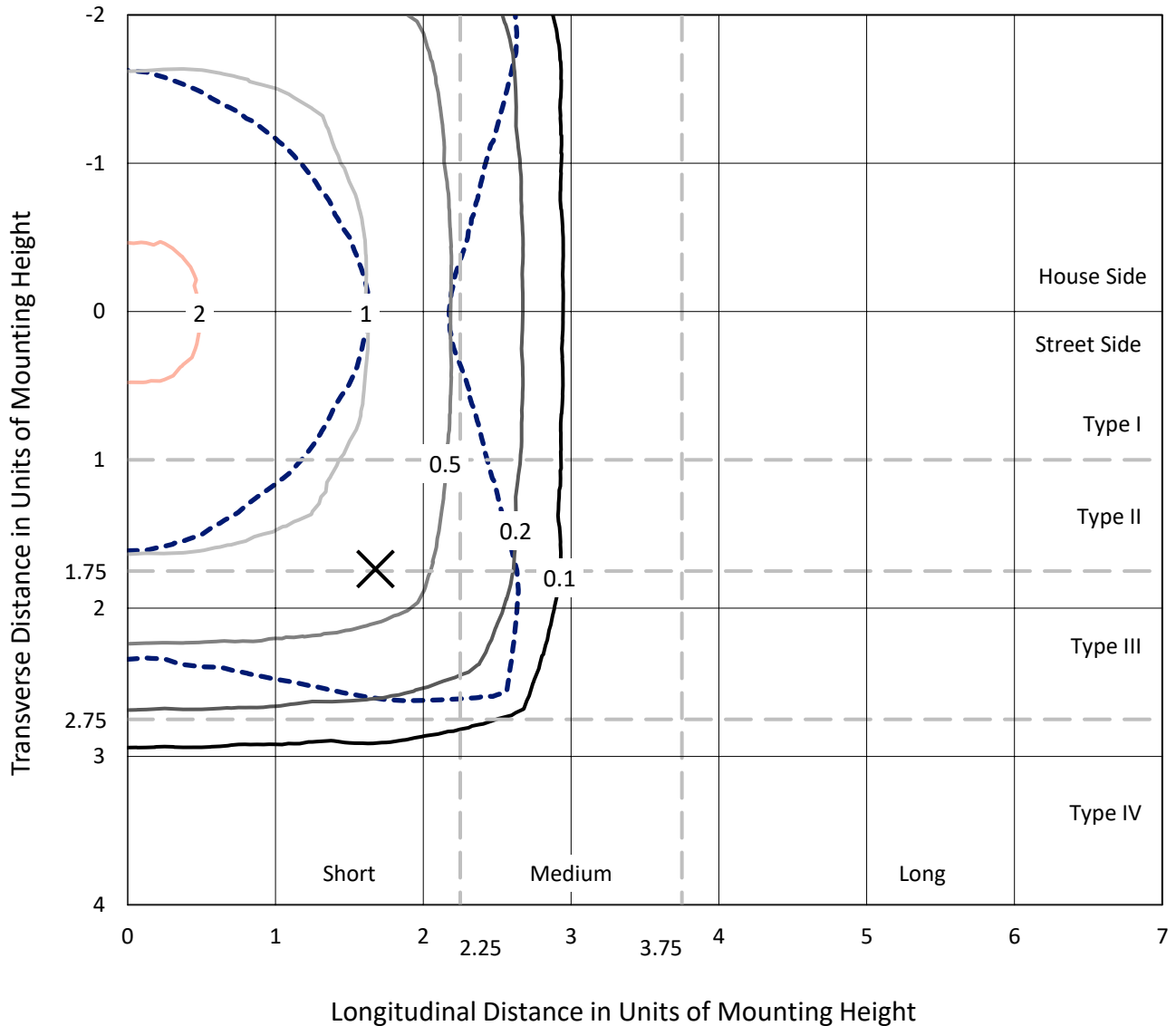
Lumens per Lamp: N/A
Luminaire Lumens: 15640.4 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

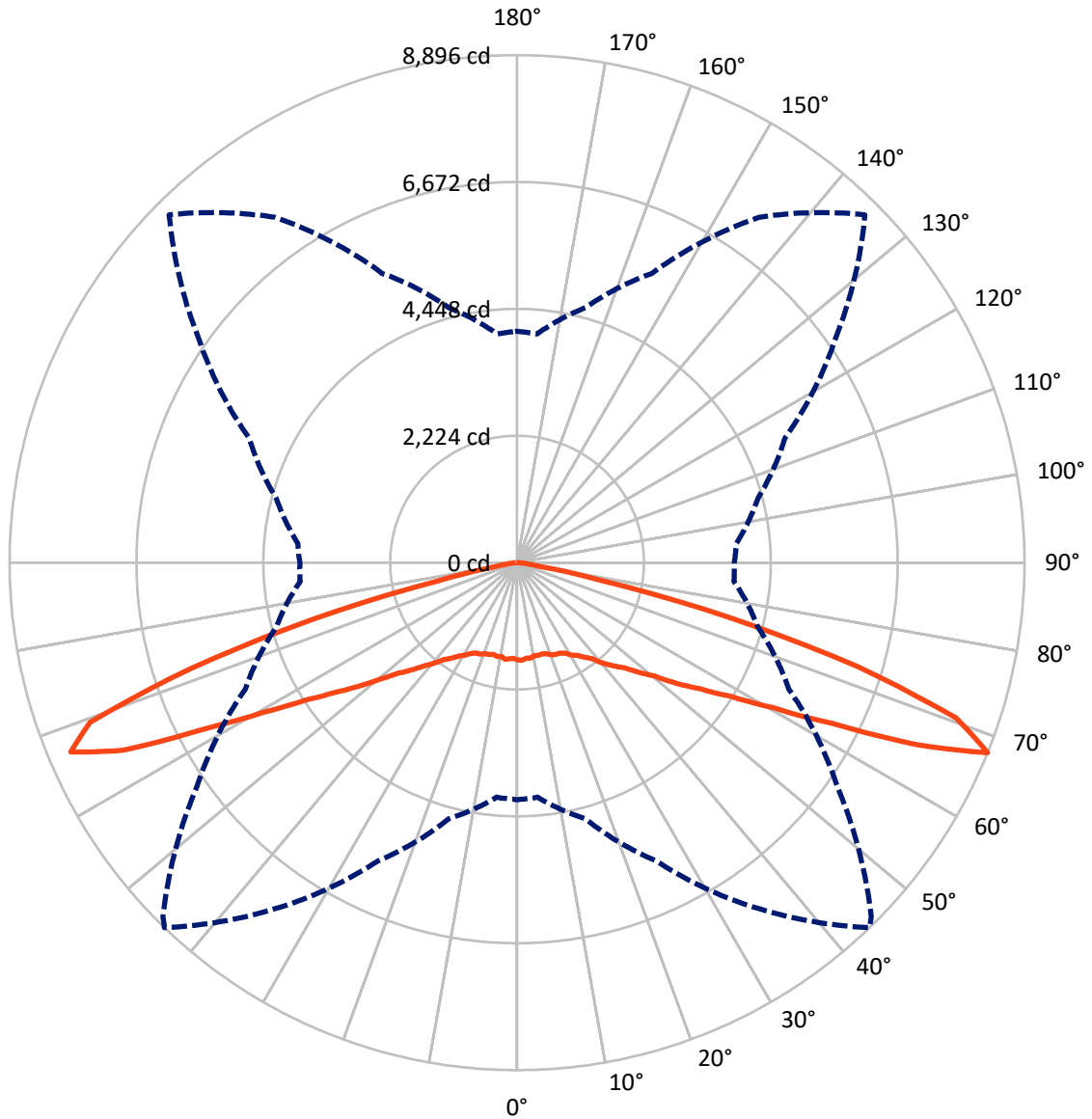
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	7800.2	0.0	7800.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7840.2	0.0	7840.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	15640.4	0.0	15640.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.0
10°-20°	472.3	3.0
20°-30°	803.2	5.1
30°-40°	1273.5	8.1
40°-50°	2076.6	13.3
50°-60°	3546.5	22.7
60°-70°	5394.2	34.5
70°-80°	1818.2	11.6
80°-90°	94.4	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°	15640.4	100.0
0°-180°	15640.4	100.0

Coefficient of Utilization



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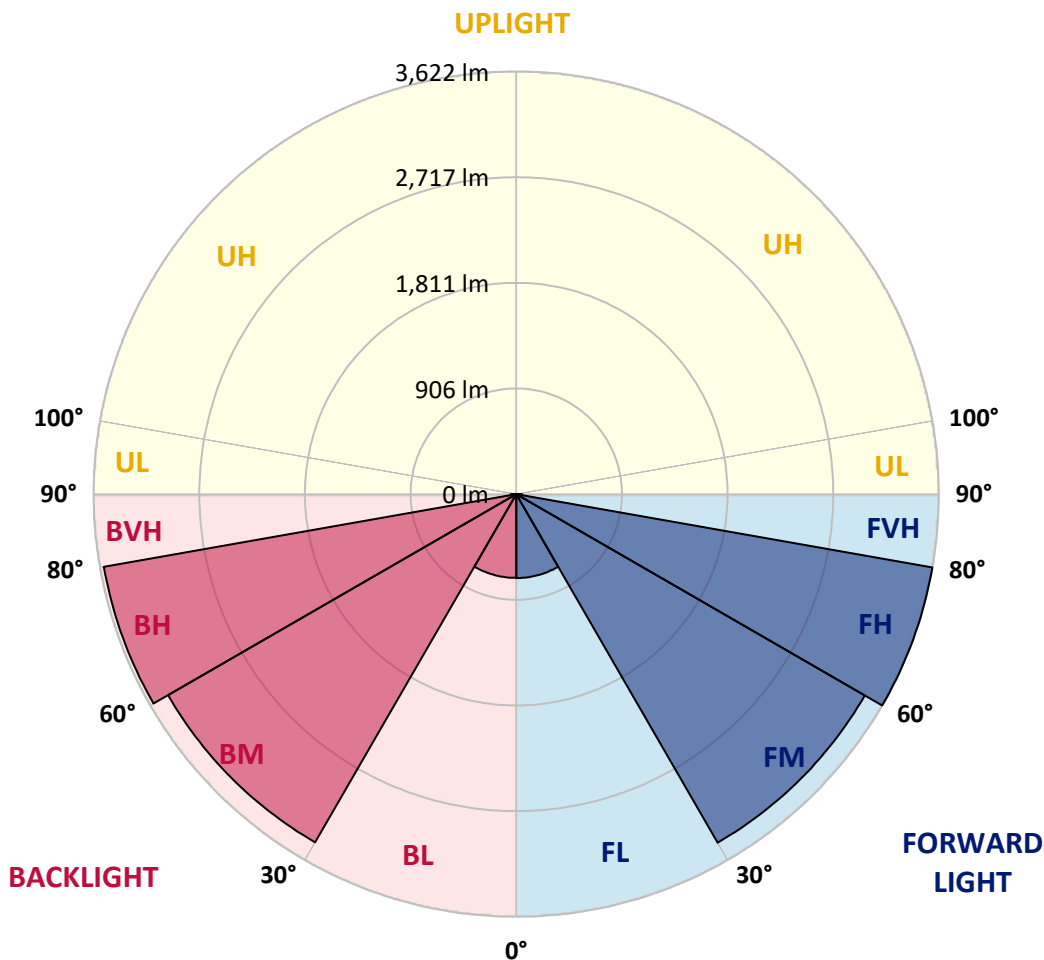
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.3	4.6			
FM (30°-60°)	3450.1	22.1			
FH (60°-80°)	3622.5	23.2			G2/5000
FVH (80°-90°)	48.3	0.3			G1/100
BL (0°-30°)	717.9	4.6	B2/1000		
BM (30°-60°)	3446.4	22.0	B3/5000		
BH (60°-80°)	3589.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4
2.5°	1669.2	1688.8	1703.1	1701.3	1706.7	1712.0	1704.9	1715.6	1708.4	1720.9	1728.1
5°	1701.3	1696.0	1697.7	1687.0	1712.0	1683.5	1683.5	1697.7	1715.6	1694.2	1706.7
7.5°	1681.7	1678.1	1669.2	1685.2	1690.6	1690.6	1704.9	1678.1	1708.4	1715.6	1717.4
10°	1660.2	1640.6	1667.4	1683.5	1687.0	1658.5	1671.0	1678.1	1669.2	1678.1	1683.5
12.5°	1642.4	1653.1	1653.1	1653.1	1647.8	1667.4	1679.9	1678.1	1660.2	1676.3	1647.8
15°	1640.6	1635.3	1651.3	1665.6	1656.7	1660.2	1665.6	1681.7	1647.8	1654.9	1654.9
17.5°	1638.8	1646.0	1651.3	1649.5	1679.9	1679.9	1674.5	1663.8	1690.6	1676.3	1656.7
20°	1646.0	1640.6	1654.9	1660.2	1681.7	1724.5	1708.4	1699.5	1685.2	1667.4	1667.4
22.5°	1654.9	1651.3	1671.0	1694.2	1735.2	1745.9	1744.2	1733.4	1708.4	1687.0	1683.5
25°	1687.0	1654.9	1676.3	1720.9	1735.2	1756.6	1770.9	1756.6	1722.7	1728.1	1696.0
27.5°	1735.2	1729.9	1758.4	1788.8	1776.3	1795.9	1783.4	1794.1	1795.9	1769.1	1737.0
30°	1792.4	1776.3	1794.1	1853.0	1858.4	1879.8	1858.4	1829.8	1838.8	1815.6	1799.5
32.5°	1874.5	1869.1	1903.0	1942.3	1949.5	1938.7	1928.0	1944.1	1906.6	1888.8	1860.2
35°	1928.0	1951.2	1992.3	2022.6	2045.9	2035.1	2040.5	2024.4	2033.4	1995.9	1983.4
37.5°	2086.9	2078.0	2086.9	2138.7	2144.0	2138.7	2144.0	2161.9	2149.4	2117.3	2085.1
40°	2236.9	2222.6	2244.0	2302.9	2299.4	2317.2	2281.5	2301.1	2301.1	2240.4	2227.9
42.5°	2349.3	2397.5	2422.5	2470.7	2488.6	2472.5	2465.4	2468.9	2508.2	2436.8	2410.0
45°	2581.4	2579.6	2654.6	2681.4	2631.4	2627.8	2613.5	2656.4	2683.2	2642.1	2631.4
47.5°	2833.1	2845.6	2888.5	2899.2	2929.5	2874.2	2874.2	2879.5	2974.2	2877.8	2827.8
50°	3059.9	3075.9	3161.6	3245.5	3188.4	3129.5	3152.7	3181.2	3233.0	3142.0	3099.1
52.5°	3334.8	3422.3	3479.4	3524.0	3565.1	3524.0	3470.5	3502.6	3604.3	3482.9	3429.4
55°	3731.1	3800.7	3854.3	3936.4	3970.3	3915.0	3909.6	3906.0	3963.2	3834.6	3761.4
57.5°	4173.8	4145.3	4231.0	4357.7	4480.9	4427.3	4411.3	4414.8	4429.1	4247.0	4191.7
60°	4723.7	4755.8	4857.6	4968.2	5098.6	5173.5	5068.2	5007.5	5020.0	4771.9	4686.2
62.5°	5037.9	5109.3	5339.6	5719.8	5982.2	6216.1	6232.2	5837.6	5573.4	5091.4	4727.2
65°	4886.1	4875.4	5309.2	6012.6	7007.0	7687.1	7585.4	6628.5	5705.5	4939.7	4450.5
67.5°	4156.0	4127.4	4652.3	5768.0	7410.4	8895.7	8779.7	6851.6	5259.2	4370.2	3816.8
70°	2677.8	2670.7	3240.2	4397.0	6616.0	8167.3	8210.2	6223.2	4280.9	3200.9	2652.8
72.5°	972.9	1031.9	1362.1	2363.6	4493.4	6248.2	6275.0	4607.6	2461.8	1479.9	1090.8
75°	358.8	369.5	430.2	767.6	2047.6	3836.4	3936.4	2235.1	874.8	482.0	392.7
77.5°	207.1	208.9	230.3	285.6	607.0	1497.8	1558.5	678.4	339.2	257.1	237.4
80°	141.0	139.2	162.5	185.7	242.8	424.9	451.7	283.8	214.2	178.5	150.0
82.5°	82.1	87.5	119.6	132.1	148.2	187.4	191.0	176.7	160.7	132.1	98.2
85°	50.0	41.1	66.1	73.2	85.7	83.9	83.9	96.4	103.5	92.8	55.3
87.5°	12.5	12.5	16.1	17.9	23.2	17.9	19.6	37.5	50.0	46.4	28.6
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°	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4	1708.4
2.5°	1712.0	1706.7	1710.2	1729.9	1717.4	1679.9	1688.8	1708.4	1692.4	1683.5	1681.7
5°	1704.9	1715.6	1703.1	1706.7	1719.2	1688.8	1694.2	1719.2	1708.4	1712.0	1692.4
7.5°	1706.7	1712.0	1701.3	1685.2	1685.2	1710.2	1696.0	1699.5	1683.5	1710.2	1674.5
10°	1696.0	1681.7	1669.2	1678.1	1674.5	1667.4	1662.0	1672.7	1656.7	1679.9	1654.9
12.5°	1663.8	1667.4	1663.8	1660.2	1667.4	1685.2	1656.7	1660.2	1635.3	1638.8	1651.3
15°	1651.3	1662.0	1658.5	1678.1	1687.0	1660.2	1681.7	1660.2	1640.6	1629.9	1649.5
17.5°	1656.7	1672.7	1667.4	1681.7	1665.6	1685.2	1688.8	1679.9	1656.7	1647.8	1656.7
20°	1662.0	1656.7	1663.8	1688.8	1712.0	1692.4	1692.4	1687.0	1665.6	1653.1	1653.1
22.5°	1674.5	1665.6	1676.3	1696.0	1703.1	1733.4	1706.7	1694.2	1658.5	1626.3	1656.7
25°	1699.5	1704.9	1712.0	1704.9	1744.2	1740.6	1737.0	1728.1	1672.7	1674.5	1669.2
27.5°	1747.7	1717.4	1726.3	1769.1	1774.5	1788.8	1770.9	1787.0	1728.1	1729.9	1694.2
30°	1806.6	1774.5	1803.1	1840.6	1838.8	1865.5	1856.6	1860.2	1819.1	1795.9	1747.7
32.5°	1870.9	1867.3	1885.2	1908.4	1917.3	1931.6	1929.8	1929.8	1904.8	1844.1	1853.0
35°	1942.3	1967.3	1988.7	2013.7	2017.3	2035.1	2010.1	2013.7	1988.7	1944.1	1958.4
37.5°	2083.3	2081.6	2104.8	2135.1	2138.7	2124.4	2144.0	2135.1	2101.2	2070.8	2047.6
40°	2247.6	2211.9	2233.3	2304.7	2310.1	2285.1	2283.3	2281.5	2256.5	2190.5	2176.2
42.5°	2390.4	2436.8	2433.2	2456.5	2440.4	2427.9	2472.5	2447.5	2427.9	2358.3	2345.8
45°	2574.3	2588.6	2635.0	2710.0	2633.2	2633.2	2663.5	2643.9	2633.2	2581.4	2533.2
47.5°	2802.8	2815.3	2908.1	2913.5	2863.5	2829.6	2924.2	2927.7	2883.1	2843.8	2784.9
50°	3070.6	3075.9	3159.8	3245.5	3190.2	3125.9	3222.3	3259.8	3159.8	3106.3	3033.1
52.5°	3365.1	3349.1	3418.7	3579.3	3525.8	3506.2	3609.7	3618.6	3482.9	3399.0	3418.7
55°	3704.3	3682.9	3872.1	3981.0	3947.1	3911.4	3957.8	3979.2	3870.3	3732.9	3781.1
57.5°	4143.5	4154.2	4248.8	4355.9	4411.3	4420.2	4441.6	4420.2	4309.5	4170.3	4125.6
60°	4582.6	4614.8	4798.6	5000.4	5018.2	5175.3	5146.8	5039.7	4882.6	4684.4	4693.3
62.5°	4745.1	4718.3	5014.7	5507.4	5926.9	6214.3	6087.6	5707.3	5343.1	4982.5	5009.3
65°	4418.4	4484.5	4887.9	5659.1	6569.6	7706.8	7031.9	5980.5	5245.0	4779.0	4727.2
67.5°	3807.9	3857.8	4370.2	5184.3	6799.9	8624.4	7389.0	5594.9	4625.5	4022.1	4054.2
70°	2652.8	2677.8	3179.5	4247.0	6166.1	8138.8	6666.0	4297.0	3193.7	2545.7	2581.4
72.5°	1067.6	1128.3	1458.5	2558.2	4552.3	6184.0	4488.0	2254.7	1324.6	985.4	894.4
75°	394.5	396.3	465.9	880.1	2161.9	3886.4	2024.4	724.8	423.1	346.3	330.3
77.5°	228.5	226.7	242.8	317.8	626.6	1517.4	574.8	283.8	230.3	207.1	198.2
80°	142.8	141.0	166.0	210.7	274.9	416.0	242.8	176.7	155.3	133.9	133.9
82.5°	91.0	92.8	130.3	155.3	167.8	183.9	141.0	125.0	116.0	76.8	75.0
85°	58.9	53.6	91.0	103.5	92.8	82.1	78.5	66.1	60.7	37.5	41.1
87.5°	26.8	28.6	46.4	51.8	33.9	19.6	19.6	14.3	14.3	8.9	8.9
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)