

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: P479484

Luminaire Tested: **IFLD-S-SA3C-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479484  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

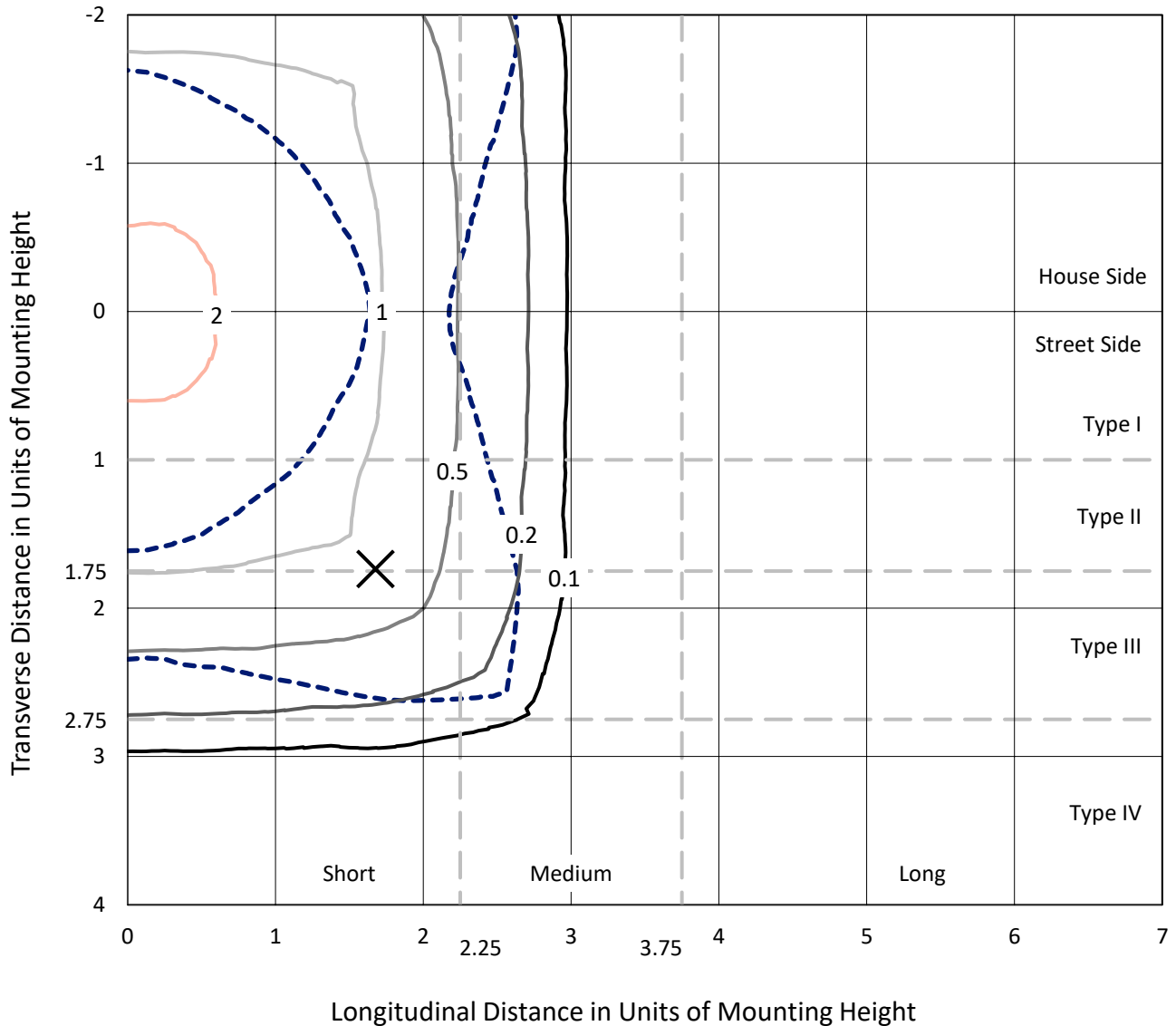
Lumens per Lamp: N/A  
Luminaire Lumens: 16989.6 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

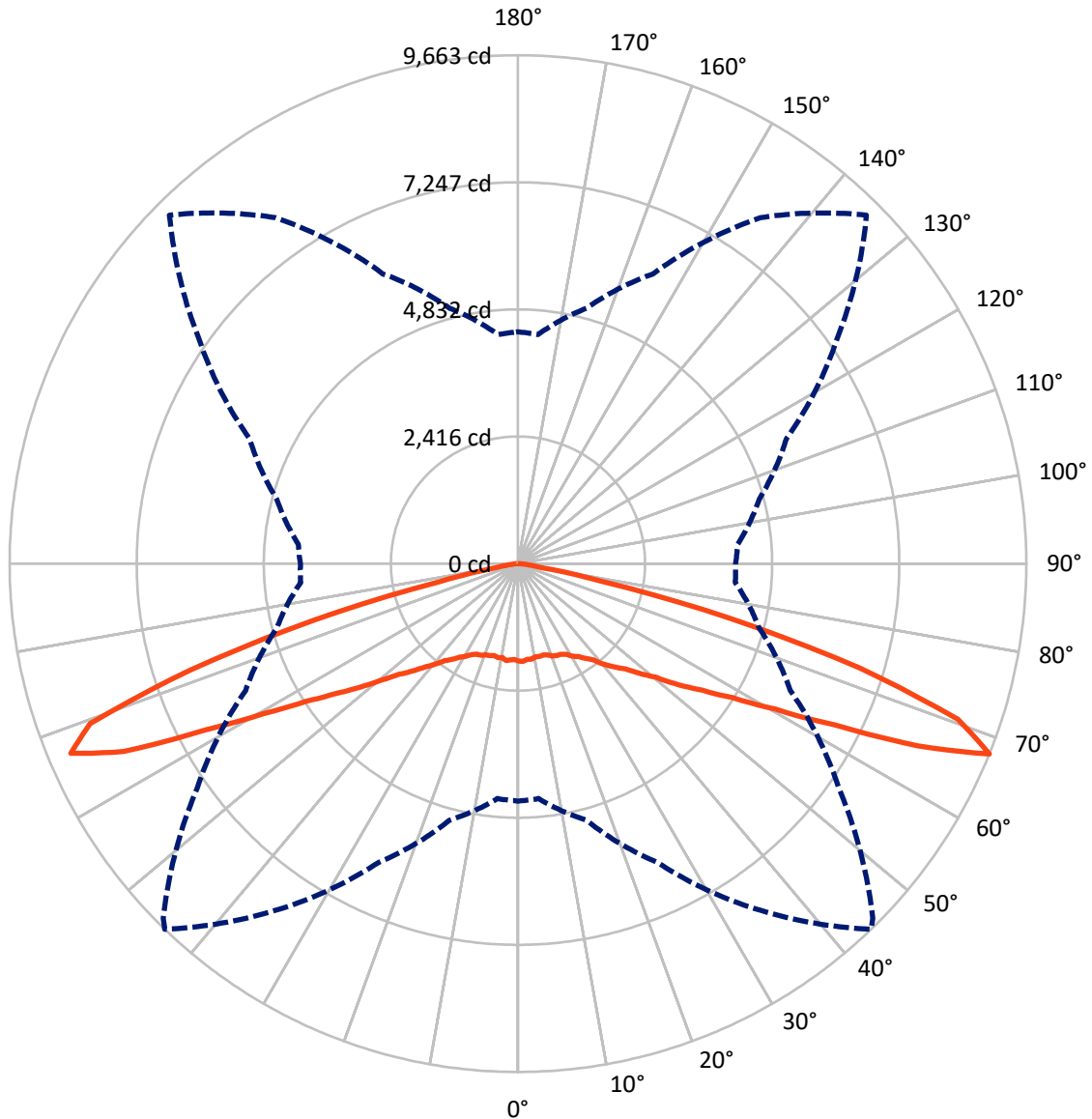
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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
<b>House Side</b>	Lumens	8473.0	0.0	8473.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	8516.5	0.0	8516.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	16989.6	0.0	16989.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	1.0
10°-20°	513.1	3.0
20°-30°	872.5	5.1
30°-40°	1383.3	8.1
40°-50°	2255.7	13.3
50°-60°	3852.4	22.7
60°-70°	5859.5	34.5
70°-80°	1975.0	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°	16989.6	100.0
0°-180°	16989.6	100.0



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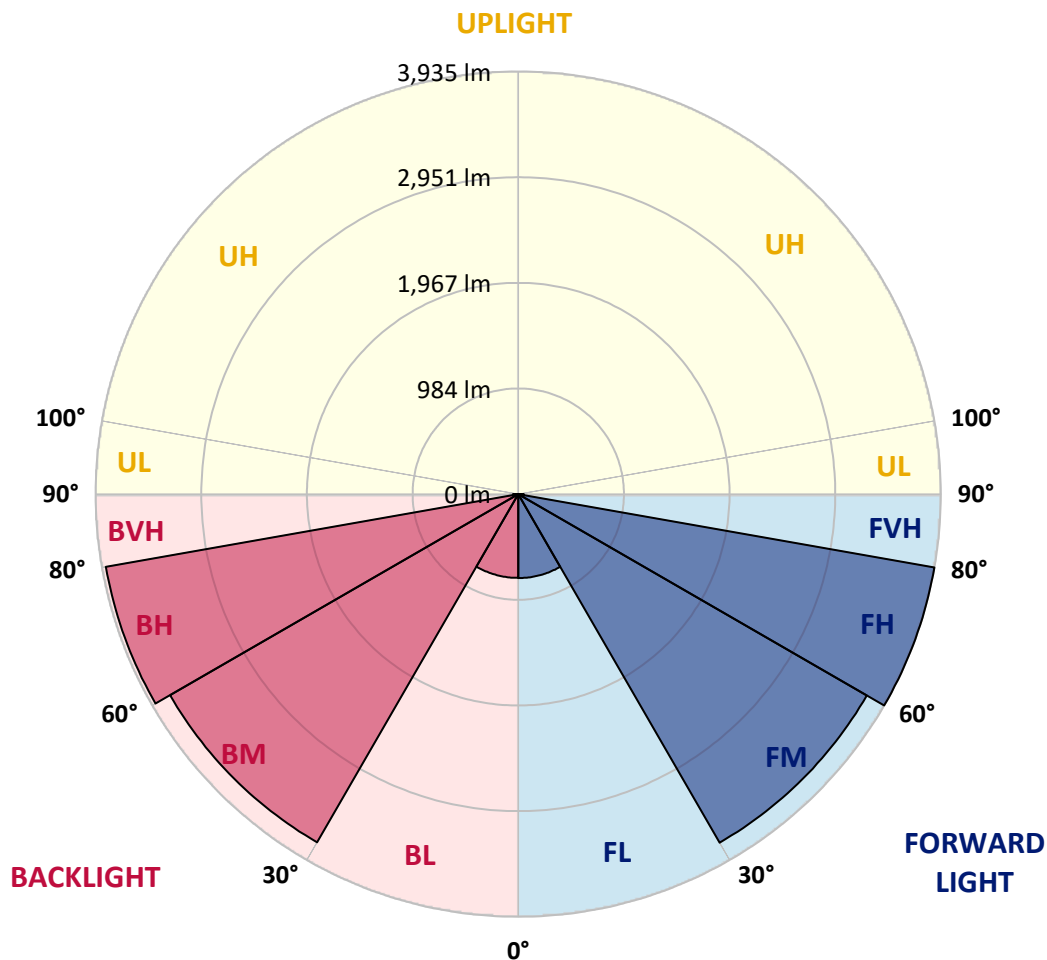
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.4	4.6			
FM (30°-60°)	3747.7	22.1			
FH (60°-80°)	3935.0	23.2			G2/5000
FVH (80°-90°)	52.5	0.3			G1/100
BL (0°-30°)	779.8	4.6	B2/1000		
BM (30°-60°)	3743.7	22.0	B3/5000		
BH (60°-80°)	3899.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1813.2	1834.5	1850.0	1848.1	1853.9	1859.7	1851.9	1863.6	1855.8	1869.4	1877.1
5°	1848.1	1842.2	1844.2	1832.5	1859.7	1828.7	1828.7	1844.2	1863.6	1840.3	1853.9
7.5°	1826.7	1822.9	1813.2	1830.6	1836.4	1836.4	1851.9	1822.9	1855.8	1863.6	1865.5
10°	1803.5	1782.1	1811.2	1828.7	1832.5	1801.5	1815.1	1822.9	1813.2	1822.9	1828.7
12.5°	1784.1	1795.7	1795.7	1795.7	1789.9	1811.2	1824.8	1822.9	1803.5	1820.9	1789.9
15°	1782.1	1776.3	1793.8	1809.3	1799.6	1803.5	1809.3	1826.7	1789.9	1797.6	1797.6
17.5°	1780.2	1787.9	1793.8	1791.8	1824.8	1824.8	1819.0	1807.3	1836.4	1820.9	1799.6
20°	1787.9	1782.1	1797.6	1803.5	1826.7	1873.3	1855.8	1846.1	1830.6	1811.2	1811.2
22.5°	1797.6	1793.8	1815.1	1840.3	1884.9	1896.5	1894.6	1883.0	1855.8	1832.5	1828.7
25°	1832.5	1797.6	1820.9	1869.4	1884.9	1908.2	1923.7	1908.2	1871.3	1877.1	1842.2
27.5°	1884.9	1879.1	1910.1	1943.1	1929.5	1950.8	1937.3	1948.9	1950.8	1921.7	1886.8
30°	1947.0	1929.5	1948.9	2012.9	2018.7	2042.0	2018.7	1987.7	1997.4	1972.2	1954.7
32.5°	2036.2	2030.3	2067.2	2109.9	2117.6	2106.0	2094.3	2111.8	2071.1	2051.7	2020.6
35°	2094.3	2119.5	2164.1	2197.1	2222.3	2210.7	2216.5	2199.1	2208.8	2168.0	2154.5
37.5°	2266.9	2257.2	2266.9	2323.2	2329.0	2323.2	2329.0	2348.4	2334.8	2299.9	2265.0
40°	2429.8	2414.3	2437.6	2501.6	2497.7	2517.1	2478.3	2499.6	2499.6	2433.7	2420.1
42.5°	2552.0	2604.3	2631.5	2683.9	2703.2	2685.8	2678.0	2681.9	2724.6	2647.0	2617.9
45°	2804.1	2802.1	2883.6	2912.7	2858.4	2854.5	2839.0	2885.5	2914.6	2870.0	2858.4
47.5°	3077.5	3091.1	3137.6	3149.3	3182.2	3122.1	3122.1	3127.9	3230.7	3126.0	3071.7
50°	3323.8	3341.2	3434.3	3525.5	3463.4	3399.4	3424.6	3455.7	3511.9	3413.0	3366.5
52.5°	3622.4	3717.5	3779.5	3828.0	3872.6	3828.0	3769.8	3804.7	3915.2	3783.4	3725.2
55°	4052.9	4128.6	4186.7	4275.9	4312.8	4252.7	4246.9	4243.0	4305.0	4165.4	4085.9
57.5°	4533.9	4502.8	4595.9	4733.6	4867.4	4809.2	4791.8	4795.6	4811.2	4613.4	4553.2
60°	5131.1	5166.0	5276.6	5396.8	5538.4	5619.8	5505.4	5439.5	5453.0	5183.5	5090.4
62.5°	5472.4	5550.0	5800.2	6213.2	6498.3	6752.3	6769.8	6341.2	6054.2	5530.6	5135.0
65°	5307.6	5296.0	5767.2	6531.2	7611.4	8350.2	8239.7	7200.3	6197.7	5365.8	4834.4
67.5°	4514.5	4483.4	5053.6	6265.6	8049.6	9663.0	9537.0	7442.7	5712.9	4747.2	4146.0
70°	2908.8	2901.0	3519.7	4776.3	7186.7	8871.9	8918.4	6760.1	4650.2	3477.0	2881.7
72.5°	1056.9	1120.9	1479.6	2567.5	4881.0	6787.2	6816.3	5005.1	2674.2	1607.6	1184.9
75°	389.8	401.4	467.3	833.9	2224.3	4167.3	4275.9	2427.9	950.2	523.6	426.6
77.5°	224.9	226.9	250.2	310.3	659.3	1627.0	1692.9	736.9	368.4	279.2	257.9
80°	153.2	151.3	176.5	201.7	263.7	461.5	490.6	308.3	232.7	193.9	162.9
82.5°	89.2	95.0	129.9	143.5	161.0	203.6	207.5	192.0	174.5	143.5	106.7
85°	54.3	44.6	71.8	79.5	93.1	91.1	91.1	104.7	112.5	100.8	60.1
87.5°	13.6	13.6	17.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8	1855.8
2.5°	1859.7	1853.9	1857.8	1879.1	1865.5	1824.8	1834.5	1855.8	1838.4	1828.7	1826.7
5°	1851.9	1863.6	1850.0	1853.9	1867.5	1834.5	1840.3	1867.5	1855.8	1859.7	1838.4
7.5°	1853.9	1859.7	1848.1	1830.6	1830.6	1857.8	1842.2	1846.1	1828.7	1857.8	1819.0
10°	1842.2	1826.7	1813.2	1822.9	1819.0	1811.2	1805.4	1817.0	1799.6	1824.8	1797.6
12.5°	1807.3	1811.2	1807.3	1803.5	1811.2	1830.6	1799.6	1803.5	1776.3	1780.2	1793.8
15°	1793.8	1805.4	1801.5	1822.9	1832.5	1803.5	1826.7	1803.5	1782.1	1770.5	1791.8
17.5°	1799.6	1817.0	1811.2	1826.7	1809.3	1830.6	1834.5	1824.8	1799.6	1789.9	1799.6
20°	1805.4	1799.6	1807.3	1834.5	1859.7	1838.4	1838.4	1832.5	1809.3	1795.7	1795.7
22.5°	1819.0	1809.3	1820.9	1842.2	1850.0	1883.0	1853.9	1840.3	1801.5	1766.6	1799.6
25°	1846.1	1851.9	1859.7	1851.9	1894.6	1890.7	1886.8	1877.1	1817.0	1819.0	1813.2
27.5°	1898.5	1865.5	1875.2	1921.7	1927.6	1943.1	1923.7	1941.1	1877.1	1879.1	1840.3
30°	1962.5	1927.6	1958.6	1999.3	1997.4	2026.5	2016.8	2020.6	1976.0	1950.8	1898.5
32.5°	2032.3	2028.4	2047.8	2073.0	2082.7	2098.2	2096.3	2096.3	2069.1	2003.2	2012.9
35°	2109.9	2137.0	2160.3	2187.4	2191.3	2210.7	2183.5	2187.4	2160.3	2111.8	2127.3
37.5°	2263.0	2261.1	2286.3	2319.3	2323.2	2307.7	2329.0	2319.3	2282.4	2249.5	2224.3
40°	2441.5	2402.7	2425.9	2503.5	2509.3	2482.2	2480.2	2478.3	2451.2	2379.4	2363.9
42.5°	2596.6	2647.0	2643.1	2668.3	2650.9	2637.3	2685.8	2658.6	2637.3	2561.7	2548.1
45°	2796.3	2811.8	2862.3	2943.7	2860.3	2860.3	2893.3	2872.0	2860.3	2804.1	2751.7
47.5°	3044.5	3058.1	3159.0	3164.8	3110.5	3073.6	3176.4	3180.3	3131.8	3089.1	3025.2
50°	3335.4	3341.2	3432.4	3525.5	3465.4	3395.5	3500.3	3541.0	3432.4	3374.2	3294.7
52.5°	3655.4	3637.9	3713.6	3888.1	3829.9	3808.6	3921.1	3930.8	3783.4	3692.2	3713.6
55°	4023.8	4000.6	4206.1	4324.4	4287.6	4248.8	4299.2	4322.5	4204.2	4054.9	4107.2
57.5°	4500.9	4512.5	4615.3	4731.7	4791.8	4801.5	4824.7	4801.5	4681.2	4530.0	4481.5
60°	4977.9	5012.8	5212.6	5431.7	5451.1	5621.7	5590.7	5474.4	5303.7	5088.5	5098.2
62.5°	5154.4	5125.3	5447.2	5982.4	6438.2	6750.4	6612.7	6199.6	5804.0	5412.3	5441.4
65°	4799.5	4871.3	5309.5	6147.3	7136.3	8371.5	7638.5	6496.3	5697.4	5191.2	5135.0
67.5°	4136.3	4190.6	4747.2	5631.4	7386.4	9368.3	8026.4	6077.5	5024.5	4369.0	4403.9
70°	2881.7	2908.8	3453.7	4613.4	6698.0	8840.8	7241.0	4667.7	3469.2	2765.3	2804.1
72.5°	1159.6	1225.6	1584.3	2778.9	4945.0	6717.4	4875.2	2449.2	1438.9	1070.4	971.5
75°	428.6	430.5	506.1	956.0	2348.4	4221.6	2199.1	787.3	459.6	376.2	358.8
77.5°	248.2	246.3	263.7	345.2	680.7	1648.3	624.4	308.3	250.2	224.9	215.3
80°	155.1	153.2	180.3	228.8	298.6	451.8	263.7	192.0	168.7	145.4	145.4
82.5°	98.9	100.8	141.6	168.7	182.3	199.7	153.2	135.7	126.0	83.4	81.4
85°	64.0	58.2	98.9	112.5	100.8	89.2	85.3	71.8	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)