

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: P479327

Luminaire Tested: **IFLD-S-SA3B-740-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479327  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

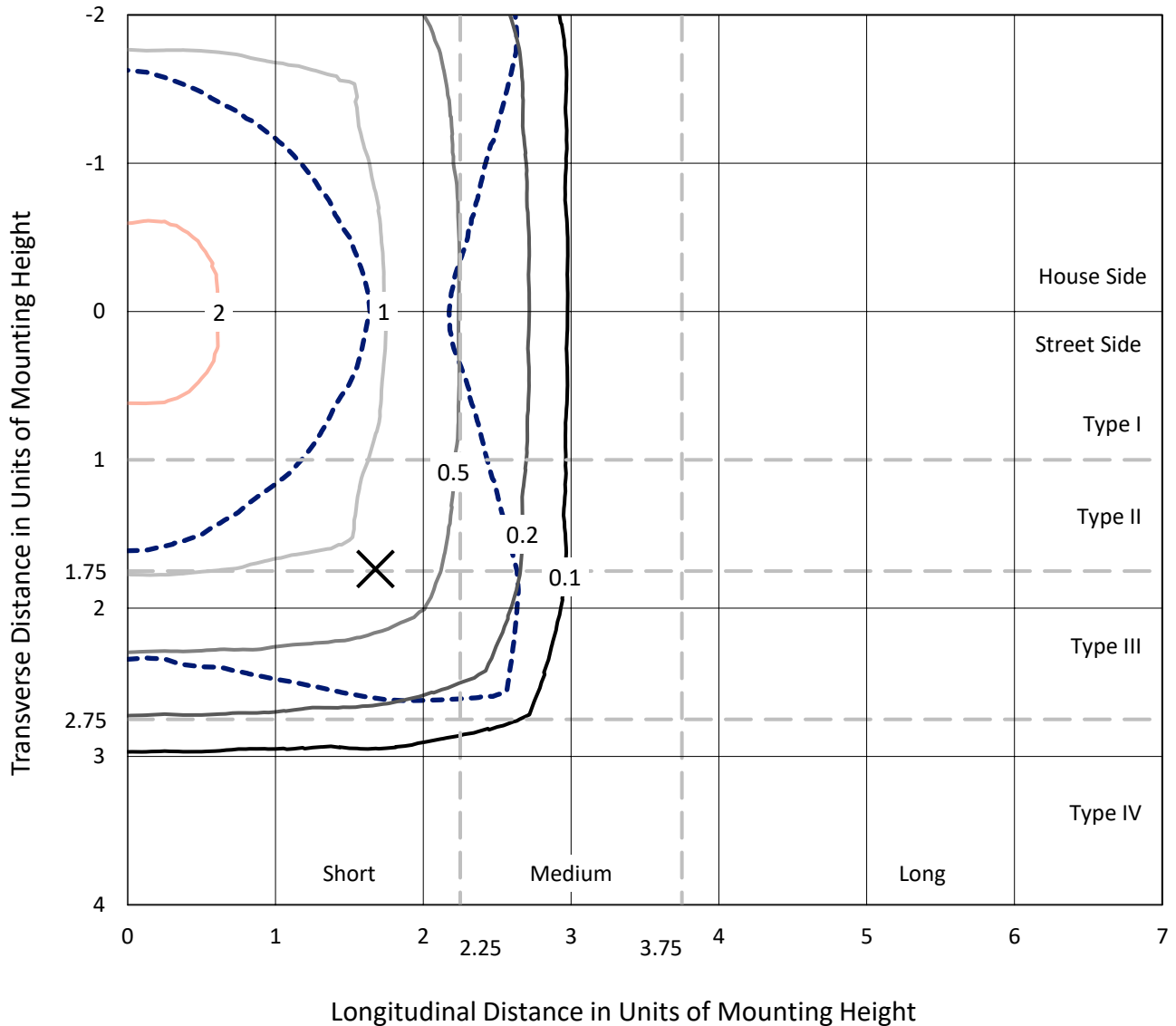
Lumens per Lamp: N/A  
Luminaire Lumens: 17176 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

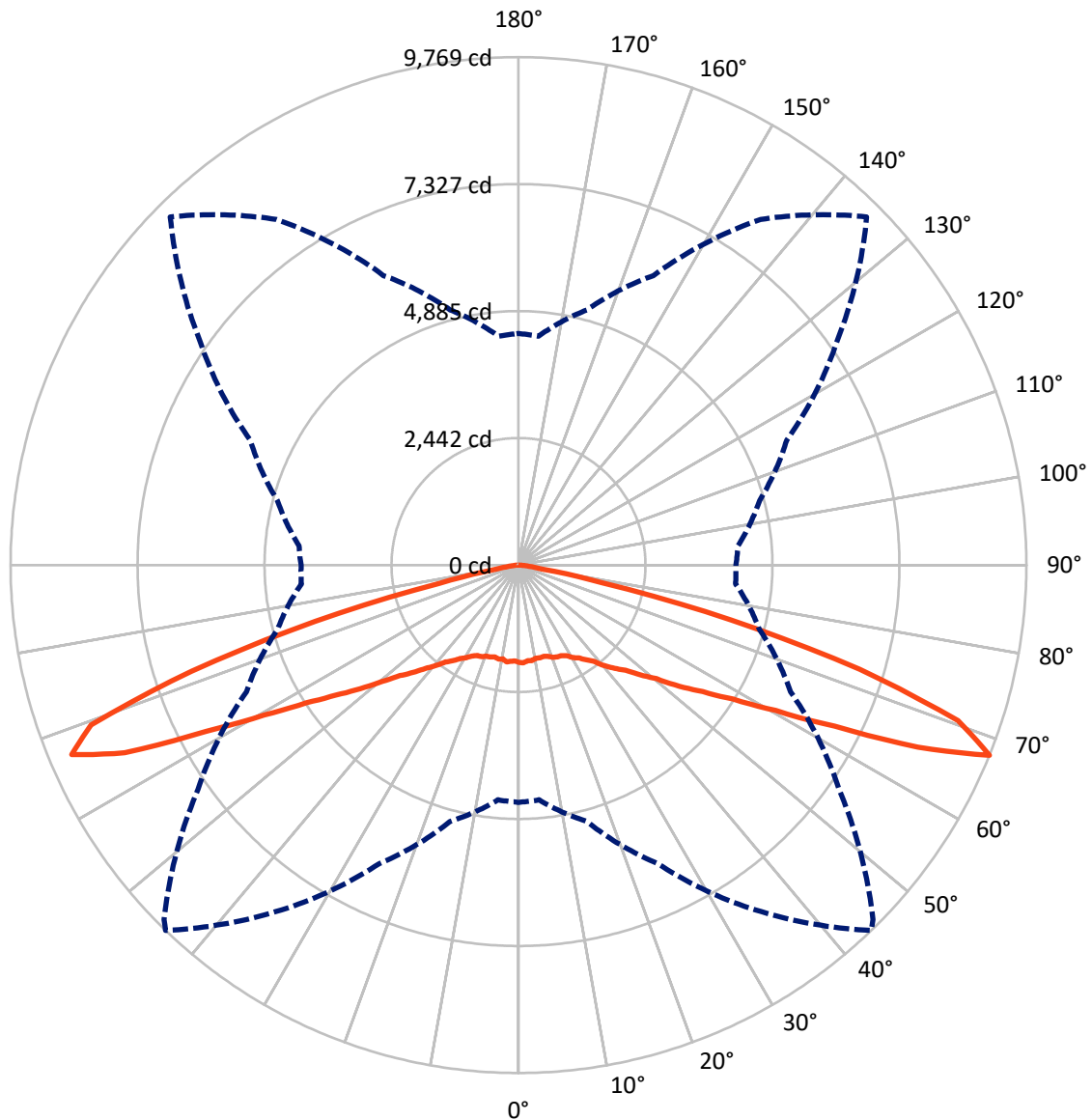
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P479327  
CATALOG NUMBER: IFLD-S-SA3B-740-U-5MQ

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: IFLD-S-SA3B-740-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8566.0	0.0	8566.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	8610.0	0.0	8610.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	17176.0	0.0	17176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.5	1.0
10°-20°	518.7	3.0
20°-30°	882.1	5.1
30°-40°	1398.5	8.1
40°-50°	2280.4	13.3
50°-60°	3894.7	22.7
60°-70°	5923.7	34.5
70°-80°	1996.7	11.6
80°-90°	103.7	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°	17176.0	100.0
0°-180°	17176.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479327

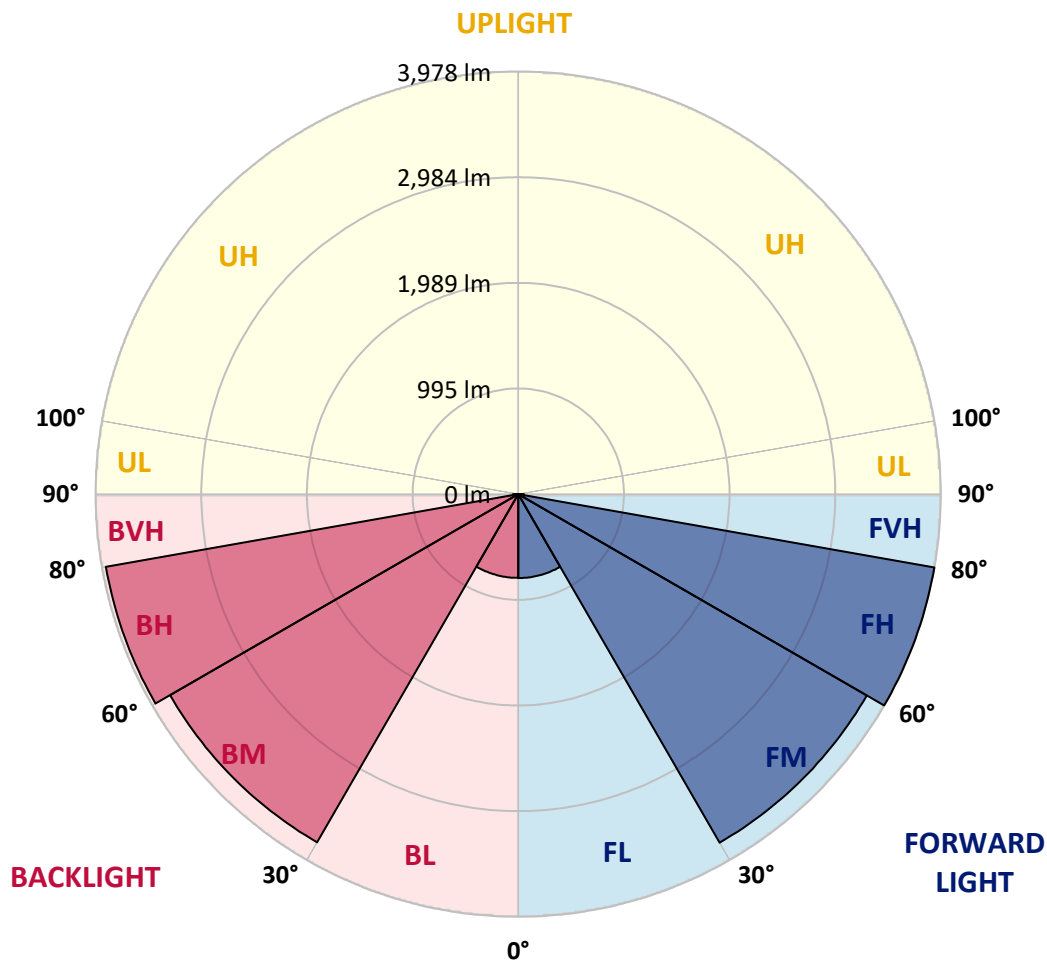
CATALOG NUMBER: IFLD-S-SA3B-740-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.0	4.6			
FM (30°-60°)	3788.9	22.1			
FH (60°-80°)	3978.1	23.2			G2/5000
FVH (80°-90°)	53.0	0.3			G1/100
BL (0°-30°)	788.3	4.6	B2/1000		
BM (30°-60°)	3784.8	22.0	B3/5000		
BH (60°-80°)	3942.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	50.6	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





REPORT NUMBER: P479327  
 CATALOG NUMBER: IFLD-S-SA3B-740-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2
2.5°	1833.0	1854.6	1870.3	1868.3	1874.2	1880.1	1872.3	1884.0	1876.2	1889.9	1897.7
5°	1868.3	1862.5	1864.4	1852.7	1880.1	1848.7	1848.7	1864.4	1884.0	1860.5	1874.2
7.5°	1846.8	1842.8	1833.0	1850.7	1856.6	1856.6	1872.3	1842.8	1876.2	1884.0	1886.0
10°	1823.2	1801.7	1831.1	1848.7	1852.7	1821.3	1835.0	1842.8	1833.0	1842.8	1848.7
12.5°	1803.6	1815.4	1815.4	1815.4	1809.5	1831.1	1844.8	1842.8	1823.2	1840.9	1809.5
15°	1801.7	1795.8	1813.4	1829.1	1819.3	1823.2	1829.1	1846.8	1809.5	1817.4	1817.4
17.5°	1799.7	1807.6	1813.4	1811.5	1844.8	1844.8	1838.9	1827.2	1856.6	1840.9	1819.3
20°	1807.6	1801.7	1817.4	1823.2	1846.8	1893.8	1876.2	1866.4	1850.7	1831.1	1831.1
22.5°	1817.4	1813.4	1835.0	1860.5	1905.6	1917.3	1915.4	1903.6	1876.2	1852.7	1848.7
25°	1852.7	1817.4	1840.9	1889.9	1905.6	1929.1	1944.8	1929.1	1891.9	1897.7	1862.5
27.5°	1905.6	1899.7	1931.1	1964.4	1950.7	1972.2	1958.5	1970.3	1972.2	1942.8	1907.5
30°	1968.3	1950.7	1970.3	2035.0	2040.9	2064.4	2040.9	2009.5	2019.3	1993.8	1976.2
32.5°	2058.5	2052.6	2089.9	2133.0	2140.8	2129.1	2117.3	2135.0	2093.8	2074.2	2042.8
35°	2117.3	2142.8	2187.9	2221.2	2246.7	2234.9	2240.8	2223.2	2233.0	2191.8	2178.1
37.5°	2291.8	2282.0	2291.8	2348.7	2354.5	2348.7	2354.5	2374.1	2360.4	2325.1	2289.8
40°	2456.5	2440.8	2464.3	2529.0	2525.1	2544.7	2505.5	2527.1	2527.1	2460.4	2446.7
42.5°	2580.0	2632.9	2660.4	2713.3	2732.9	2715.3	2707.4	2711.3	2754.5	2676.1	2646.6
45°	2834.9	2832.9	2915.2	2944.6	2889.7	2885.8	2870.1	2917.2	2946.6	2901.5	2889.7
47.5°	3111.3	3125.0	3172.1	3183.8	3217.1	3156.4	3156.4	3162.3	3266.2	3160.3	3105.4
50°	3360.3	3377.9	3472.0	3564.1	3501.4	3436.7	3462.2	3493.6	3550.4	3450.4	3403.4
52.5°	3662.2	3758.2	3821.0	3870.0	3915.1	3870.0	3811.2	3846.5	3958.2	3824.9	3766.1
55°	4097.4	4173.9	4232.7	4322.9	4360.1	4299.3	4293.4	4289.5	4352.3	4211.1	4130.7
57.5°	4583.6	4552.2	4646.3	4785.5	4920.8	4862.0	4844.3	4848.3	4863.9	4664.0	4603.2
60°	5187.4	5222.7	5334.5	5456.0	5599.1	5681.5	5565.8	5499.1	5512.9	5240.4	5146.3
62.5°	5532.5	5610.9	5863.8	6281.4	6569.6	6826.4	6844.0	6410.8	6120.6	5591.3	5191.3
65°	5365.8	5354.1	5830.5	6602.9	7694.9	8441.8	8330.1	7279.3	6265.7	5424.6	4887.5
67.5°	4564.0	4532.6	5109.0	6334.3	8137.9	9769.1	9641.6	7524.3	5775.6	4799.3	4191.5
70°	2940.7	2932.9	3558.3	4828.7	7265.5	8969.2	9016.2	6834.2	4701.2	3515.1	2913.3
72.5°	1068.5	1133.2	1495.8	2595.7	4934.5	6861.7	6891.1	5060.0	2703.5	1625.2	1197.9
75°	394.1	405.8	472.5	843.0	2248.7	4213.1	4322.9	2454.5	960.6	529.3	431.3
77.5°	227.4	229.4	252.9	313.7	666.6	1644.8	1711.5	745.0	372.5	282.3	260.7
80°	154.9	152.9	178.4	203.9	266.6	466.6	496.0	311.7	235.3	196.0	164.7
82.5°	90.2	96.1	131.4	145.1	162.7	205.9	209.8	194.1	176.4	145.1	107.8
85°	54.9	45.1	72.5	80.4	94.1	92.1	92.1	105.9	113.7	101.9	60.8
87.5°	13.7	13.7	17.6	19.6	25.5	19.6	21.6	41.2	54.9	51.0	31.4
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: P479327  
 CATALOG NUMBER: IFLD-S-SA3B-740-U-5MQ

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2	1876.2
2.5°	1880.1	1874.2	1878.1	1899.7	1886.0	1844.8	1854.6	1876.2	1858.5	1848.7	1846.8
5°	1872.3	1884.0	1870.3	1874.2	1887.9	1854.6	1860.5	1887.9	1876.2	1880.1	1858.5
7.5°	1874.2	1880.1	1868.3	1850.7	1850.7	1878.1	1862.5	1866.4	1848.7	1878.1	1838.9
10°	1862.5	1846.8	1833.0	1842.8	1838.9	1831.1	1825.2	1837.0	1819.3	1844.8	1817.4
12.5°	1827.2	1831.1	1827.2	1823.2	1831.1	1850.7	1819.3	1823.2	1795.8	1799.7	1813.4
15°	1813.4	1825.2	1821.3	1842.8	1852.7	1823.2	1846.8	1823.2	1801.7	1789.9	1811.5
17.5°	1819.3	1837.0	1831.1	1846.8	1829.1	1850.7	1854.6	1844.8	1819.3	1809.5	1819.3
20°	1825.2	1819.3	1827.2	1854.6	1880.1	1858.5	1858.5	1852.7	1829.1	1815.4	1815.4
22.5°	1838.9	1829.1	1840.9	1862.5	1870.3	1903.6	1874.2	1860.5	1821.3	1786.0	1819.3
25°	1866.4	1872.3	1880.1	1872.3	1915.4	1911.5	1907.5	1897.7	1837.0	1838.9	1833.0
27.5°	1919.3	1886.0	1895.8	1942.8	1948.7	1964.4	1944.8	1962.4	1897.7	1899.7	1860.5
30°	1984.0	1948.7	1980.1	2021.3	2019.3	2048.7	2038.9	2042.8	1997.7	1972.2	1919.3
32.5°	2054.6	2050.7	2070.3	2095.8	2105.6	2121.2	2119.3	2119.3	2091.8	2025.2	2035.0
35°	2133.0	2160.4	2184.0	2211.4	2215.3	2234.9	2207.5	2211.4	2184.0	2135.0	2150.6
37.5°	2287.9	2285.9	2311.4	2344.7	2348.7	2333.0	2354.5	2344.7	2307.5	2274.2	2248.7
40°	2468.2	2429.0	2452.6	2531.0	2536.9	2509.4	2507.5	2505.5	2478.0	2405.5	2389.8
42.5°	2625.1	2676.1	2672.1	2697.6	2680.0	2666.3	2715.3	2687.8	2666.3	2589.8	2576.1
45°	2827.0	2842.7	2893.7	2976.0	2891.7	2891.7	2925.0	2903.5	2891.7	2834.9	2781.9
47.5°	3078.0	3091.7	3193.6	3199.5	3144.6	3107.4	3211.3	3215.2	3166.2	3123.0	3058.3
50°	3372.0	3377.9	3470.0	3564.1	3503.4	3432.8	3538.7	3579.8	3470.0	3411.2	3330.9
52.5°	3695.5	3677.9	3754.3	3930.8	3871.9	3850.4	3964.1	3973.9	3824.9	3732.8	3754.3
55°	4068.0	4044.5	4252.3	4371.9	4334.6	4295.4	4346.4	4369.9	4250.3	4099.4	4152.3
57.5°	4550.3	4562.0	4665.9	4783.6	4844.3	4854.1	4877.7	4854.1	4732.6	4579.7	4530.7
60°	5032.5	5067.8	5269.8	5491.3	5510.9	5683.4	5652.1	5534.4	5361.9	5144.3	5154.1
62.5°	5211.0	5181.5	5507.0	6048.1	6508.8	6824.4	6685.2	6267.6	5867.7	5471.7	5501.1
65°	4852.2	4924.7	5367.8	6214.7	7214.6	8463.4	7722.3	6567.6	5759.9	5248.2	5191.3
67.5°	4181.7	4236.6	4799.3	5693.2	7467.5	9471.1	8114.4	6144.1	5079.6	4417.0	4452.2
70°	2913.3	2940.7	3491.6	4664.0	6771.5	8937.8	7320.4	4718.9	3507.3	2795.6	2834.9
72.5°	1172.4	1239.0	1601.7	2809.4	4999.2	6791.1	4928.6	2476.1	1454.7	1082.2	982.2
75°	433.3	435.2	511.7	966.5	2374.1	4268.0	2223.2	796.0	464.6	380.3	362.7
77.5°	250.9	249.0	266.6	349.0	688.1	1666.4	631.3	311.7	252.9	227.4	217.6
80°	156.8	154.9	182.3	231.3	301.9	456.8	266.6	194.1	170.6	147.0	147.0
82.5°	100.0	101.9	143.1	170.6	184.3	201.9	154.9	137.2	127.4	84.3	82.3
85°	64.7	58.8	100.0	113.7	101.9	90.2	86.3	72.5	66.7	41.2	45.1
87.5°	29.4	31.4	51.0	56.9	37.2	21.6	21.6	15.7	15.7	9.8	9.8
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)