

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: P482313

Luminaire Tested: **IFLD-M-SA4D-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482313  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

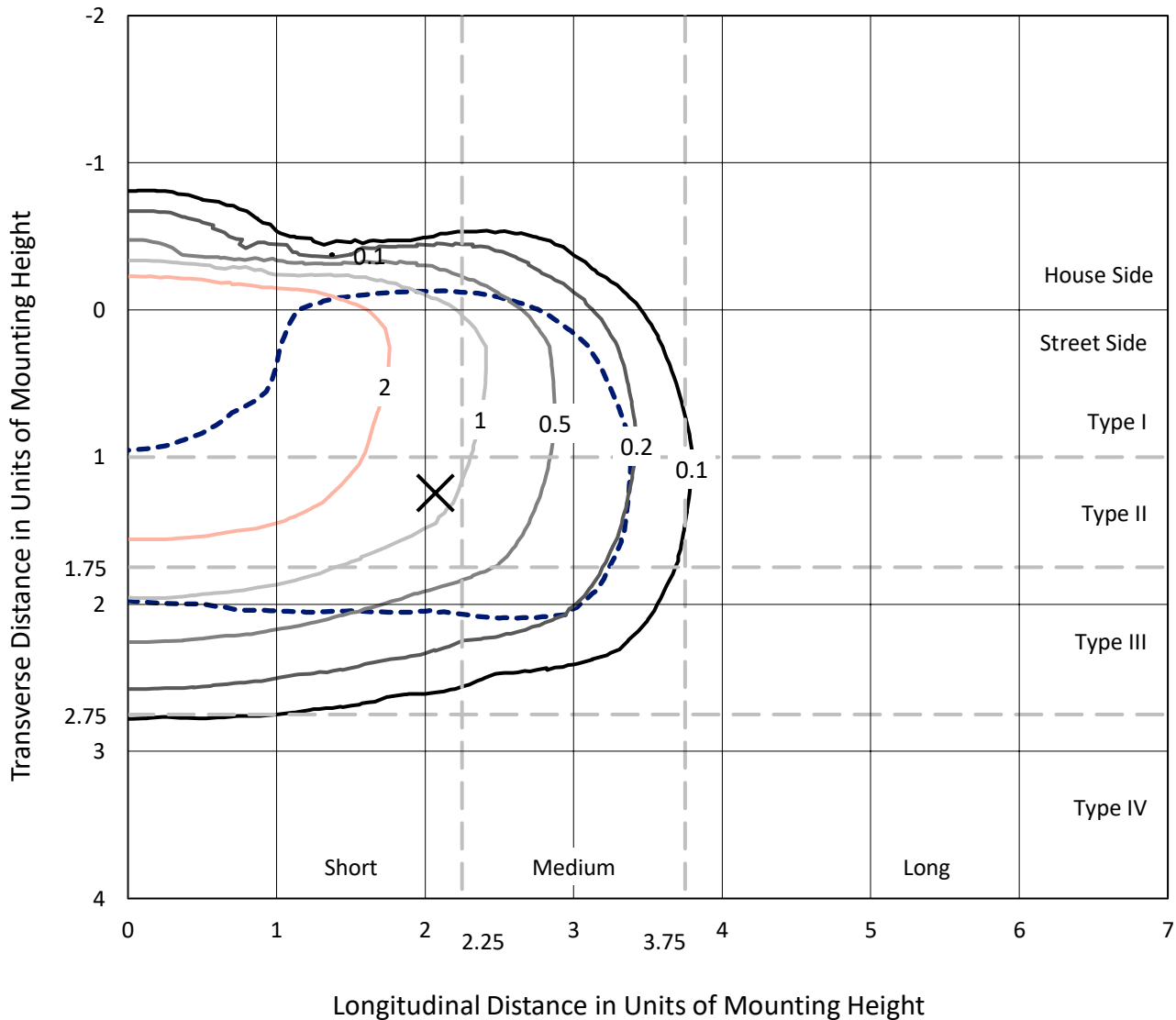
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17099 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

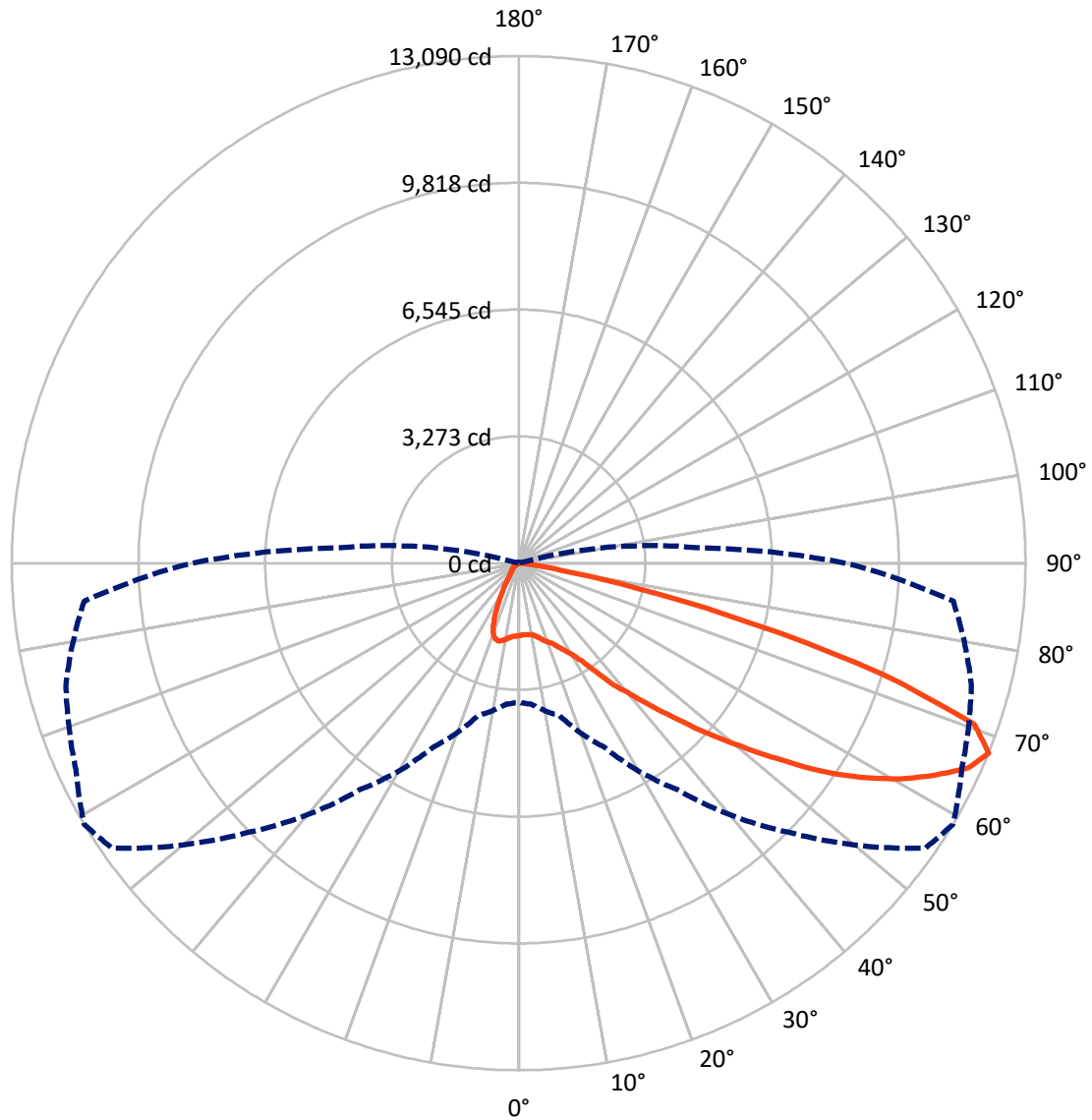
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2008.6	0.0	2008.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15090.4	0.0	15090.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17099.0	0.0	17099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	1.0
10°-20°	514.6	3.0
20°-30°	899.4	5.3
30°-40°	1583.5	9.3
40°-50°	2799.1	16.4
50°-60°	4432.0	25.9
60°-70°	4916.3	28.8
70°-80°	1705.8	10.0
80°-90°	70.2	0.4
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°	17099.0	100.0
0°-180°	17099.0	100.0

**Coefficient of Utilization**

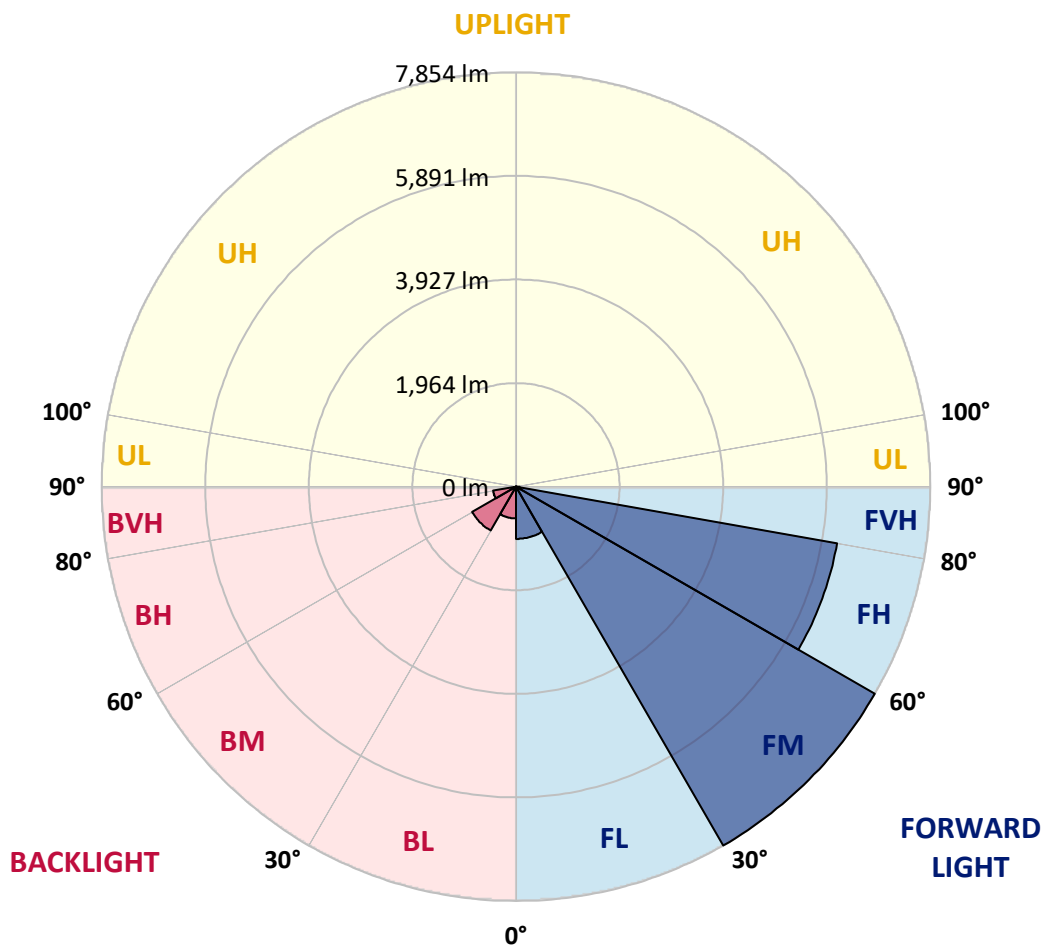


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.2	5.8			
FM (30°-60°)	7854.2	45.9			
FH (60°-80°)	6180.4	36.1			G3/7500
FVH (80°-90°)	65.7	0.4			G1/100
BL (0°-30°)	602.0	3.5	B2/1000		
BM (30°-60°)	960.3	5.6	B1/1000		
BH (60°-80°)	441.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1821.1	1795.1	1818.8	1821.1	1823.5	1844.7	1868.4	1851.8	1849.5	1868.4	1884.9
5°	1747.9	1736.1	1764.4	1778.6	1802.2	1821.1	1858.9	1861.3	1863.6	1884.9	1913.2
7.5°	1717.2	1688.9	1721.9	1738.5	1755.0	1799.9	1844.7	1868.4	1901.4	1927.4	1955.8
10°	1655.8	1677.0	1686.5	1714.8	1762.1	1814.0	1868.4	1880.2	1953.4	1974.7	2043.2
12.5°	1677.0	1691.2	1710.1	1717.2	1769.2	1847.1	1920.3	1925.1	2000.6	2092.8	2128.2
15°	1731.4	1721.9	1729.0	1738.5	1799.9	1863.6	1981.7	2003.0	2073.9	2177.8	2265.2
17.5°	1847.1	1830.6	1818.8	1816.4	1830.6	1889.6	2029.0	2092.8	2158.9	2300.6	2345.5
20°	2137.6	2123.5	2076.2	1953.4	1910.9	1934.5	2085.7	2175.4	2267.6	2425.8	2499.0
22.5°	2579.3	2593.5	2482.5	2310.1	2132.9	2040.8	2175.4	2253.4	2399.8	2600.6	2666.7
25°	3101.4	3073.0	2938.4	2737.6	2458.9	2241.6	2319.5	2406.9	2586.4	2751.8	2777.8
27.5°	3510.0	3476.9	3373.0	3129.7	2888.8	2536.8	2508.5	2562.8	2775.4	2924.2	2895.9
30°	3913.9	3925.7	3854.8	3566.7	3269.1	2898.2	2718.7	2742.3	2905.3	3096.6	3032.9
32.5°	4428.8	4400.5	4360.3	4107.6	3755.6	3358.8	3051.7	3014.0	3084.8	3337.6	3262.0
35°	4908.3	4891.8	4837.4	4582.3	4275.3	3843.0	3543.1	3458.0	3441.5	3722.6	3590.3
37.5°	5326.4	5298.0	5215.4	5052.4	4754.8	4391.0	4062.7	3987.1	3984.8	4178.4	3923.3
40°	5678.3	5699.6	5690.1	5510.6	5347.6	5057.1	4554.0	4433.5	4424.1	4528.0	4379.2
42.5°	6134.2	6183.8	6157.8	6122.4	5926.3	5813.0	5243.7	5059.5	4976.8	5189.4	5054.8
45°	6823.9	6842.8	6859.3	6772.0	6575.9	6599.5	5957.0	5737.4	5716.1	6032.6	5730.3
47.5°	7468.8	7419.1	7534.9	7539.6	7530.2	7421.5	6727.1	6564.1	6592.4	6833.4	6521.6
50°	7629.4	7756.9	8075.8	8134.8	8288.4	8387.6	7582.1	7419.1	7466.4	7740.4	7383.7
52.5°	7754.6	7948.2	8267.1	8699.4	9112.7	9348.9	8538.8	8406.5	8404.1	8571.8	8080.5
55°	7974.2	8092.3	8368.7	8963.9	9750.5	10137.8	9691.4	9478.8	9287.5	9405.6	8803.3
57.5°	7953.0	7997.8	8427.7	9162.3	10256.0	10959.8	10638.6	10435.5	10189.8	10121.3	9634.7
60°	7579.8	7686.1	8167.9	9027.7	10567.7	11599.9	11522.0	11314.1	10891.3	10730.7	10272.5
62.5°	6840.4	6982.2	7360.1	8555.3	10114.2	11633.0	12131.4	12053.5	11581.1	11292.9	11103.9
65°	5543.7	5609.8	6044.4	7355.4	9089.1	11125.2	12851.8	12755.0	12320.4	11890.5	11531.4
67.5°	3590.3	3654.1	4072.1	5250.8	7138.1	9814.3	12823.5	13090.4	12620.3	12103.1	11264.5
70°	1695.9	1679.4	2069.1	2917.1	4572.9	7494.7	11956.6	12483.3	12084.2	10971.6	9356.0
72.5°	517.3	562.2	859.8	1292.0	2347.9	4674.5	9372.6	9866.2	9741.0	8765.5	6245.2
75°	229.1	248.0	337.8	529.1	951.9	1918.0	5789.3	6228.7	6174.4	5170.5	2851.0
77.5°	146.4	160.6	212.6	302.3	432.3	609.4	2666.7	3094.3	2999.8	1816.4	746.4
80°	103.9	111.0	151.2	207.9	271.6	250.4	918.8	1091.3	1046.4	493.7	200.8
82.5°	56.7	61.4	111.0	153.5	181.9	127.5	257.5	321.2	335.4	219.7	96.8
85°	21.3	26.0	68.5	108.7	94.5	59.1	75.6	92.1	120.5	120.5	44.9
87.5°	0.0	2.4	28.3	47.2	23.6	16.5	21.3	26.0	33.1	56.7	16.5
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°	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1896.7	1880.2	1887.3	1899.1	1873.1	1887.3	1858.9	1880.2	1887.3	1858.9	1873.1
5°	1920.3	1936.9	1927.4	1908.5	1892.0	1896.7	1889.6	1873.1	1887.3	1892.0	1882.5
7.5°	1988.8	1969.9	1974.7	1953.4	1920.3	1918.0	1873.1	1861.3	1866.0	1870.7	1854.2
10°	2052.6	2064.4	2040.8	2024.3	1969.9	1934.5	1873.1	1807.0	1799.9	1771.5	1795.1
12.5°	2166.0	2137.6	2128.2	2073.9	2019.5	1901.4	1769.2	1667.6	1582.6	1551.9	1521.1
15°	2260.5	2255.7	2239.2	2156.5	2031.3	1816.4	1566.0	1329.8	1166.8	1065.3	1051.1
17.5°	2390.4	2369.1	2338.4	2208.5	1944.0	1594.4	1166.8	869.2	706.2	642.5	618.9
20°	2489.6	2473.0	2430.5	2196.7	1785.7	1188.1	722.8	552.7	512.6	500.8	503.1
22.5°	2633.7	2581.7	2501.4	2137.6	1497.5	791.3	519.6	493.7	486.6	477.1	479.5
25°	2758.9	2711.6	2543.9	2036.1	1067.6	524.4	481.9	467.7	455.9	444.1	441.7
27.5°	2869.9	2810.8	2588.8	1828.2	668.5	451.1	446.4	429.9	406.3	387.4	380.3
30°	2978.5	2910.0	2600.6	1438.5	451.1	408.6	396.8	370.8	340.1	314.2	309.4
32.5°	3160.4	3077.7	2584.1	1027.5	389.7	363.8	337.8	307.1	262.2	240.9	236.2
35°	3443.8	3318.7	2562.8	604.7	349.6	321.2	281.1	240.9	207.9	186.6	181.9
37.5°	3769.8	3552.5	2501.4	403.9	321.2	283.4	231.5	191.3	163.0	146.4	141.7
40°	4254.0	3895.0	2265.2	330.7	285.8	240.9	186.6	151.2	129.9	118.1	113.4
42.5°	4787.8	4287.1	1901.4	297.6	252.7	205.5	148.8	122.8	106.3	94.5	94.5
45°	5428.0	4695.7	1466.8	271.6	224.4	170.1	122.8	99.2	85.0	75.6	70.9
47.5°	6141.3	5066.6	989.7	245.7	189.0	139.4	101.6	75.6	61.4	54.3	54.3
50°	6779.0	5394.9	630.7	214.9	165.3	115.7	82.7	61.4	49.6	40.2	37.8
52.5°	7357.7	5645.3	434.6	189.0	141.7	94.5	68.5	49.6	37.8	30.7	30.7
55°	7950.6	5772.8	321.2	163.0	122.8	80.3	56.7	44.9	33.1	26.0	23.6
57.5°	8437.2	5827.1	245.7	141.7	103.9	63.8	49.6	37.8	28.3	21.3	18.9
60°	8852.9	5801.2	191.3	118.1	82.7	54.3	42.5	30.7	23.6	16.5	14.2
62.5°	9096.2	5645.3	151.2	101.6	66.1	47.2	35.4	26.0	16.5	11.8	9.4
65°	9100.9	5314.6	118.1	75.6	49.6	40.2	30.7	21.3	11.8	4.7	2.4
67.5°	8449.0	4598.9	94.5	59.1	40.2	30.7	23.6	16.5	4.7	0.0	0.0
70°	6609.0	3479.3	77.9	47.2	33.1	26.0	16.5	9.4	2.4	0.0	0.0
72.5°	4211.5	2083.3	63.8	37.8	28.3	18.9	11.8	7.1	0.0	0.0	0.0
75°	1762.1	642.5	49.6	33.1	21.3	14.2	9.4	2.4	0.0	0.0	0.0
77.5°	453.5	203.1	40.2	28.3	21.3	11.8	7.1	2.4	0.0	0.0	0.0
80°	134.6	75.6	33.1	23.6	16.5	9.4	4.7	2.4	0.0	0.0	0.0
82.5°	61.4	44.9	28.3	21.3	14.2	9.4	4.7	0.0	0.0	0.0	0.0
85°	23.6	14.2	14.2	11.8	11.8	7.1	2.4	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	4.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0
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)