

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: P483093

Luminaire Tested: **IFLD-M-SA4D-722-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483093  
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-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

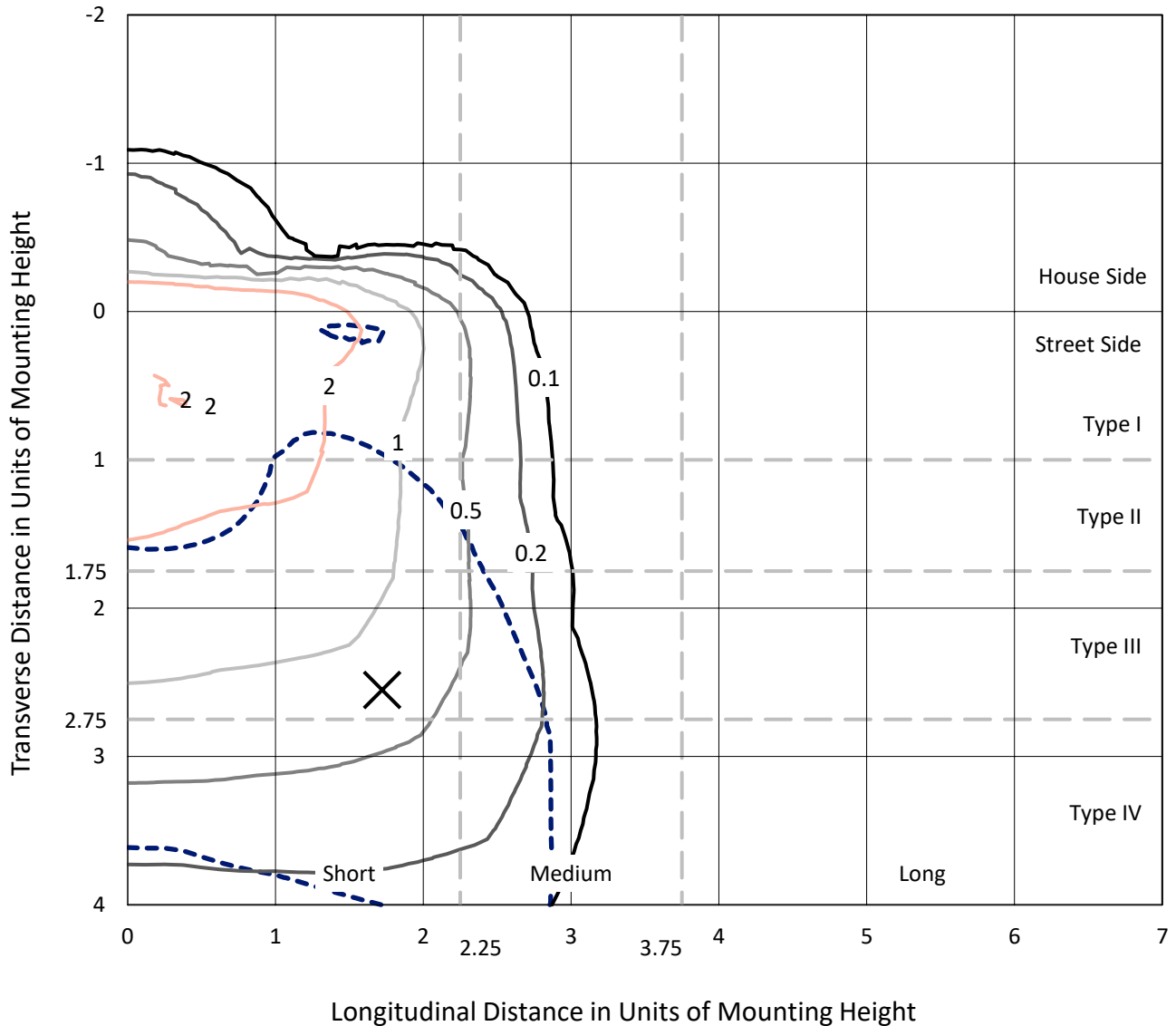
Lumens per Lamp: N/A  
Luminaire Lumens: 16662.6 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
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

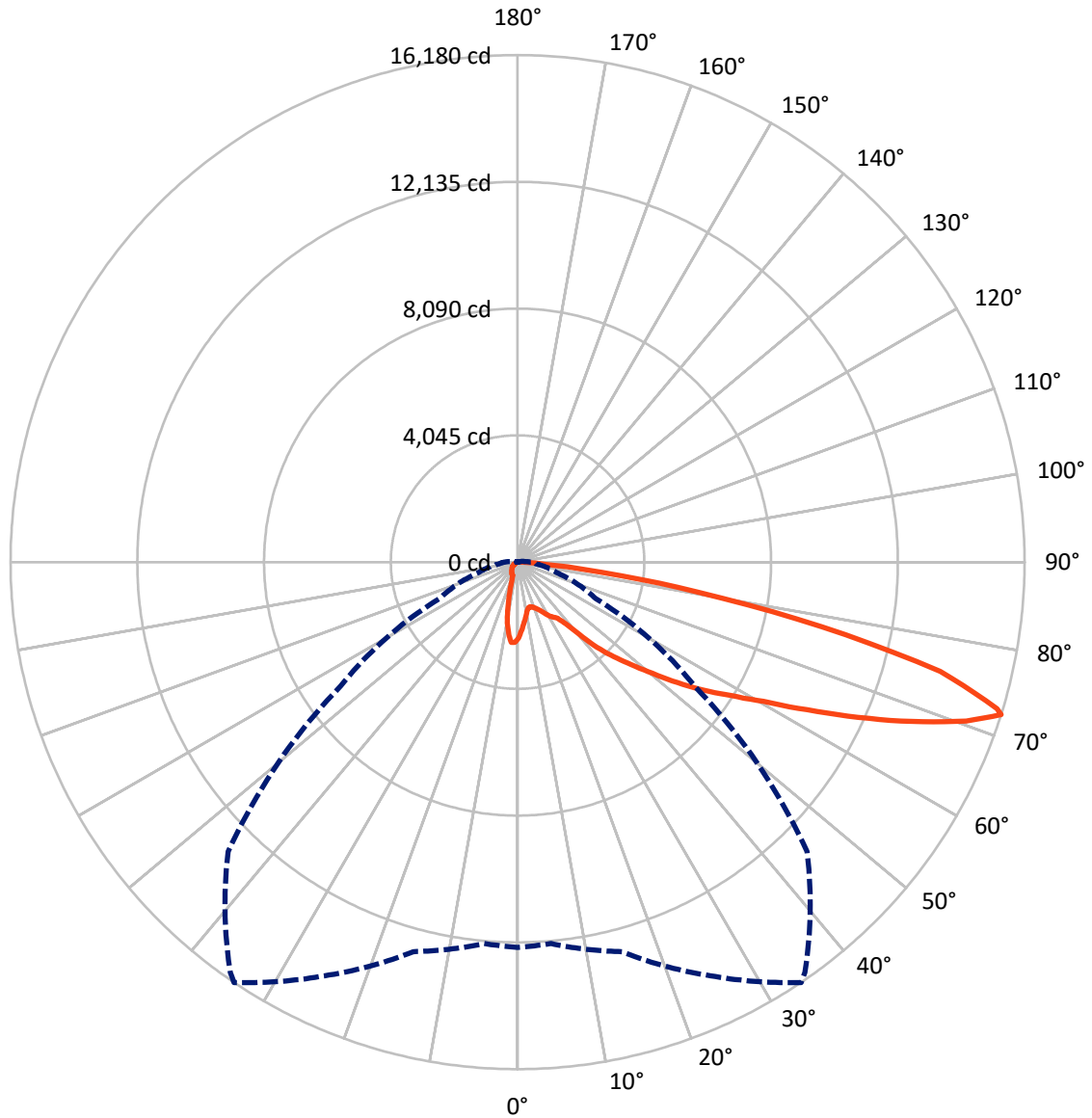
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1705.9	0.0	1705.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	14956.8	0.0	14956.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	16662.6	0.0	16662.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.6	1.3
10°-20°	479.1	2.9
20°-30°	723.1	4.3
30°-40°	1173.5	7.0
40°-50°	2206.8	13.2
50°-60°	3608.1	21.7
60°-70°	4796.5	28.8
70°-80°	3212.2	19.3
80°-90°	251.7	1.5
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°	16662.6	100.0
0°-180°	16662.6	100.0

**Coefficient of Utilization**



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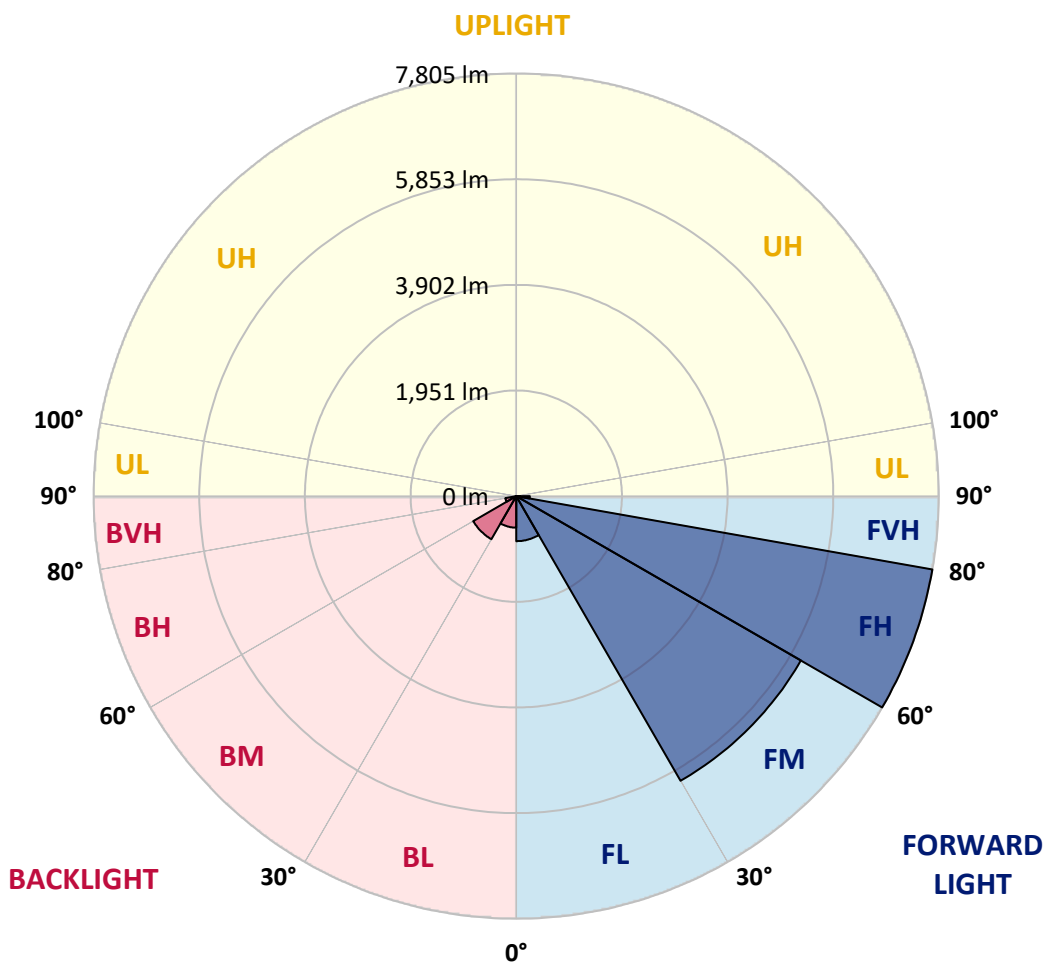
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.8	5.0			
FM (30°-60°)	6070.2	36.4			
FH (60°-80°)	7804.7	46.8			G4/12000
FVH (80°-90°)	250.1	1.5			G3/500
BL (0°-30°)	582.0	3.5	B2/1000		
BM (30°-60°)	918.2	5.5	B1/1000		
BH (60°-80°)	204.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8
2.5°	2155.9	2151.1	2165.6	2189.6	2213.7	2204.1	2249.9	2298.0	2331.8	2377.5	2432.9
5°	1883.7	1895.8	1910.2	1958.4	1989.7	1996.9	2081.2	2143.9	2247.5	2353.4	2452.2
7.5°	1635.6	1650.1	1679.0	1732.0	1797.0	1813.9	1898.2	2023.4	2158.3	2298.0	2459.4
10°	1454.9	1469.4	1500.7	1534.4	1621.2	1621.2	1736.8	1910.2	2086.1	2249.9	2461.8
12.5°	1416.4	1423.6	1421.2	1447.7	1503.1	1515.2	1628.4	1818.7	2023.4	2233.0	2500.4
15°	1462.2	1467.0	1442.9	1428.4	1476.6	1488.7	1594.7	1763.3	1982.5	2242.6	2563.0
17.5°	1553.7	1536.8	1488.7	1467.0	1507.9	1515.2	1613.9	1760.9	1977.7	2269.1	2635.3
20°	1606.7	1626.0	1541.7	1500.7	1558.5	1568.2	1674.2	1799.4	2001.8	2314.9	2736.5
22.5°	1700.6	1710.3	1597.1	1570.6	1626.0	1626.0	1746.4	1876.5	2059.6	2389.6	2856.9
25°	1833.1	1821.1	1688.6	1662.1	1715.1	1736.8	1857.2	1999.3	2148.7	2459.4	2967.7
27.5°	1936.7	1943.9	1835.5	1765.7	1854.8	1869.3	1999.3	2131.8	2216.1	2517.3	3102.6
30°	2090.9	2076.4	1960.8	1881.3	1992.1	1994.5	2119.8	2257.1	2346.2	2620.8	3304.9
32.5°	2274.0	2245.0	2112.6	1999.3	2088.5	2110.2	2237.8	2437.8	2548.6	2815.9	3618.1
35°	2661.8	2591.9	2375.1	2199.3	2206.5	2216.1	2413.7	2700.3	2828.0	3064.1	4037.2
37.5°	3227.9	3199.0	2953.3	2618.4	2490.8	2461.8	2683.5	3047.2	3206.2	3391.7	4581.6
40°	3789.1	3748.2	3519.3	3266.4	3035.2	2977.3	3088.1	3507.3	3651.8	3846.9	5140.5
42.5°	4413.0	4340.8	4071.0	3866.2	3721.7	3659.0	3615.7	4085.4	4249.2	4381.7	5687.3
45°	5044.1	4926.1	4535.9	4379.3	4302.2	4268.5	4263.7	4812.9	4911.6	4938.1	6294.3
47.5°	5598.2	5470.5	5116.4	4940.6	4882.7	4873.1	5142.9	5651.2	5574.1	5504.2	6971.2
50°	6024.5	5942.6	5687.3	5624.7	5581.3	5564.4	6195.6	6513.5	6157.0	6034.2	7566.2
52.5°	6684.6	6501.5	6212.4	6234.1	6385.9	6388.3	7262.7	7332.5	6641.2	6397.9	8127.5
55°	7212.1	7091.7	6855.6	6824.3	7224.1	7267.5	8219.0	7954.0	6911.0	6744.8	8334.6
57.5°	7833.6	7778.2	7607.2	7612.0	8031.1	8122.6	9069.3	8479.2	7135.0	6968.8	8365.9
60°	8732.1	8573.1	8484.0	8524.9	9018.7	9107.9	9893.2	8857.3	7243.4	7115.7	8288.9
62.5°	9724.5	9539.1	9442.7	9652.3	10372.5	10387.0	10519.5	9192.2	7176.0	7154.3	7792.6
65°	10919.3	10736.3	10659.2	11080.7	11935.9	11882.9	11398.7	9334.3	6961.6	6766.5	6489.4
67.5°	12109.3	11998.5	11839.5	12511.6	13576.3	13576.3	12311.6	9281.3	6400.3	5432.0	4244.4
70°	12673.0	12750.1	13003.0	14058.1	15187.8	15072.2	13212.6	8671.9	4764.7	2917.1	1669.3
72°	12297.2	12217.7	12870.5	14563.9	16180.3	15990.0	13060.8	6894.1	2753.3	1279.1	580.5
72.5°	11651.6	11726.3	12624.8	14494.1	15994.8	16151.4	12689.8	6359.4	2264.3	1018.9	438.4
75°	7144.7	7272.3	9423.4	12306.8	13937.6	13761.8	9816.1	3030.3	869.6	433.6	156.6
77.5°	2608.8	2714.8	4572.0	7744.5	9912.4	9801.6	5680.1	1076.8	472.1	322.8	79.5
80°	679.3	734.7	1553.7	3572.3	5829.4	5836.6	2377.5	431.2	320.4	265.0	48.2
82.5°	134.9	149.3	477.0	1389.9	2724.4	2688.3	751.6	231.2	240.9	216.8	33.7
85°	16.9	21.7	101.2	472.1	881.6	790.1	185.5	115.6	178.3	168.6	21.7
87.5°	2.4	2.4	24.1	108.4	185.5	180.7	38.5	36.1	79.5	103.6	12.0
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°	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8	2437.8
2.5°	2464.3	2473.9	2507.6	2536.5	2570.2	2579.9	2565.4	2589.5	2555.8	2575.1	2579.9
5°	2469.1	2524.5	2587.1	2628.1	2618.4	2594.3	2575.1	2510.0	2464.3	2447.4	2483.5
7.5°	2502.8	2565.4	2632.9	2632.9	2579.9	2454.6	2334.2	2218.6	2122.2	2074.0	2115.0
10°	2546.2	2611.2	2681.1	2589.5	2392.0	2163.1	1992.1	1775.3	1628.4	1551.3	1558.5
12.5°	2604.0	2695.5	2719.6	2507.6	2180.0	1840.4	1529.6	1228.5	1088.8	978.0	980.4
15°	2678.6	2767.8	2695.5	2329.4	1910.2	1409.2	1035.8	749.2	638.3	580.5	580.5
17.5°	2777.4	2844.9	2688.3	2165.6	1546.5	963.5	635.9	505.9	481.8	472.1	472.1
20°	2893.0	2943.6	2618.4	1910.2	1149.0	619.1	467.3	452.9	455.3	450.5	450.5
22.5°	3023.1	3040.0	2538.9	1613.9	778.1	457.7	436.0	438.4	440.8	436.0	438.4
25°	3160.4	3114.6	2423.3	1267.1	517.9	416.7	421.5	426.4	428.8	431.2	431.2
27.5°	3314.6	3223.0	2261.9	927.4	404.7	392.6	407.1	421.5	424.0	424.0	421.5
30°	3541.0	3389.3	2105.3	628.7	356.5	366.1	390.2	407.1	419.1	419.1	416.7
32.5°	3827.7	3562.7	1886.1	428.8	330.0	334.8	354.1	387.8	414.3	416.7	409.5
35°	4225.1	3772.3	1657.3	342.1	310.7	313.2	325.2	351.7	397.5	411.9	409.5
37.5°	4644.3	4010.7	1373.0	308.3	296.3	293.9	301.1	322.8	363.7	399.9	402.3
40°	5089.9	4261.3	1074.3	291.5	284.2	279.4	281.8	291.5	322.8	368.6	378.2
42.5°	5509.0	4487.7	807.0	274.6	272.2	267.4	267.4	269.8	286.7	318.0	322.8
45°	5961.9	4673.2	614.3	262.6	255.3	257.7	248.1	243.3	255.3	257.7	255.3
47.5°	6385.9	4858.7	491.4	248.1	240.9	240.9	228.8	219.2	219.2	197.5	195.1
50°	6783.3	4959.8	392.6	228.8	226.4	224.0	207.2	190.3	175.8	149.3	144.5
52.5°	7113.3	4955.0	303.5	204.8	212.0	204.8	178.3	154.2	132.5	108.4	103.6
55°	7212.1	4723.8	228.8	168.6	180.7	171.0	142.1	120.4	96.4	77.1	74.7
57.5°	7127.8	4372.1	173.4	130.1	139.7	130.1	108.4	89.1	67.4	53.0	48.2
60°	6846.0	3960.2	134.9	101.2	106.0	98.8	81.9	67.4	48.2	33.7	28.9
62.5°	6311.2	3444.7	103.6	79.5	77.1	77.1	62.6	50.6	33.7	19.3	16.9
65°	5179.0	2685.9	79.5	55.4	55.4	55.4	48.2	36.1	21.7	9.6	4.8
67.5°	3251.9	1563.3	65.0	43.4	41.0	41.0	33.7	24.1	12.0	2.4	0.0
70°	1223.7	573.3	50.6	33.7	31.3	31.3	24.1	14.5	7.2	0.0	0.0
72°	421.5	219.2	41.0	24.1	24.1	21.7	16.9	12.0	4.8	0.0	0.0
72.5°	346.9	175.8	38.5	24.1	21.7	21.7	16.9	12.0	4.8	0.0	0.0
75°	125.3	72.3	26.5	16.9	14.5	14.5	12.0	7.2	2.4	0.0	0.0
77.5°	62.6	45.8	21.7	14.5	12.0	7.2	7.2	4.8	2.4	0.0	0.0
80°	38.5	28.9	12.0	9.6	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	26.5	16.9	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.9	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	4.8	2.4	0.0	0.0	0.0	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)