

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: P483483

Luminaire Tested: **IFLD-M-SA4D-722-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483483  
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-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

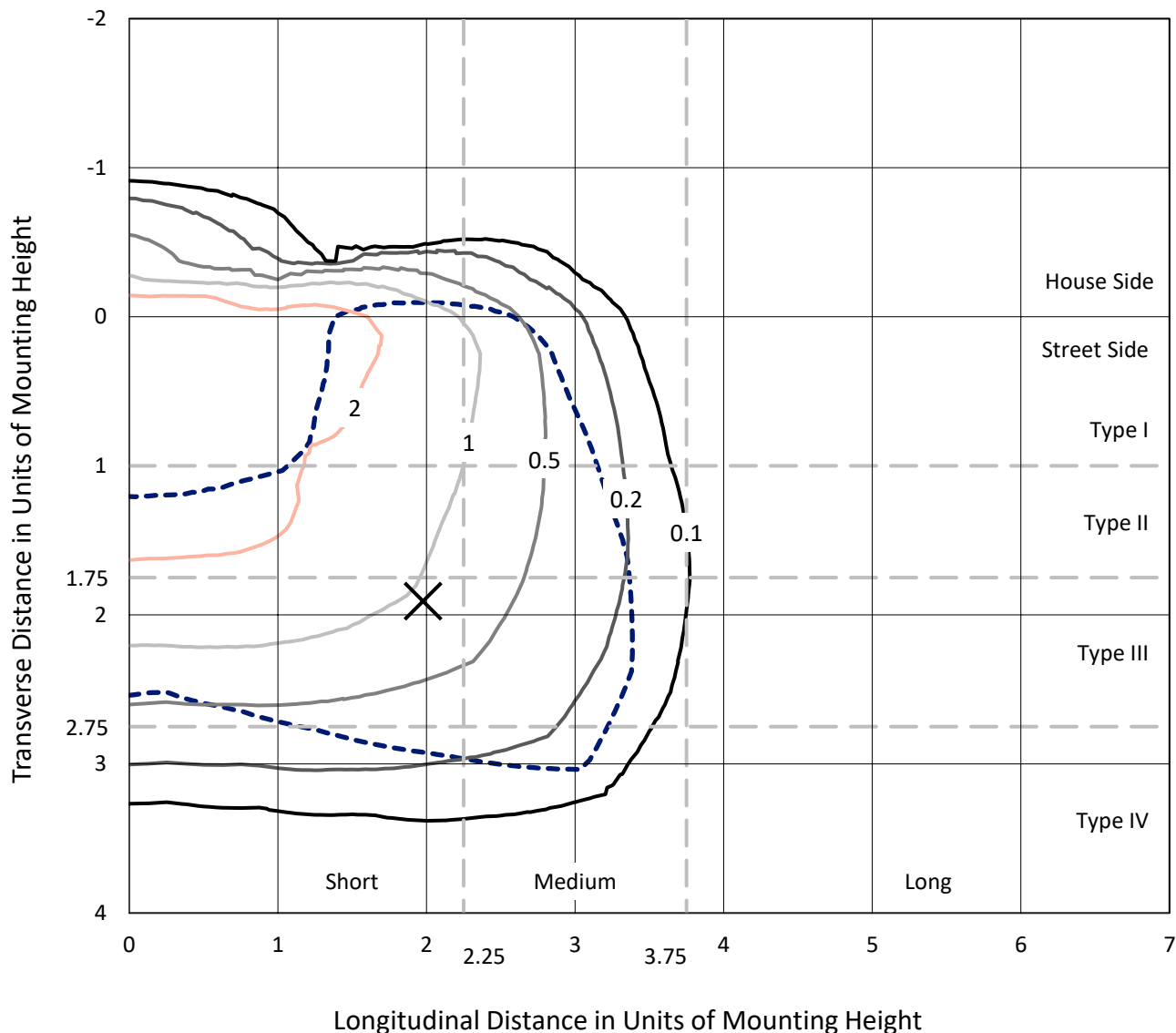
Lumens per Lamp: N/A  
Luminaire Lumens: 17002.5 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

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

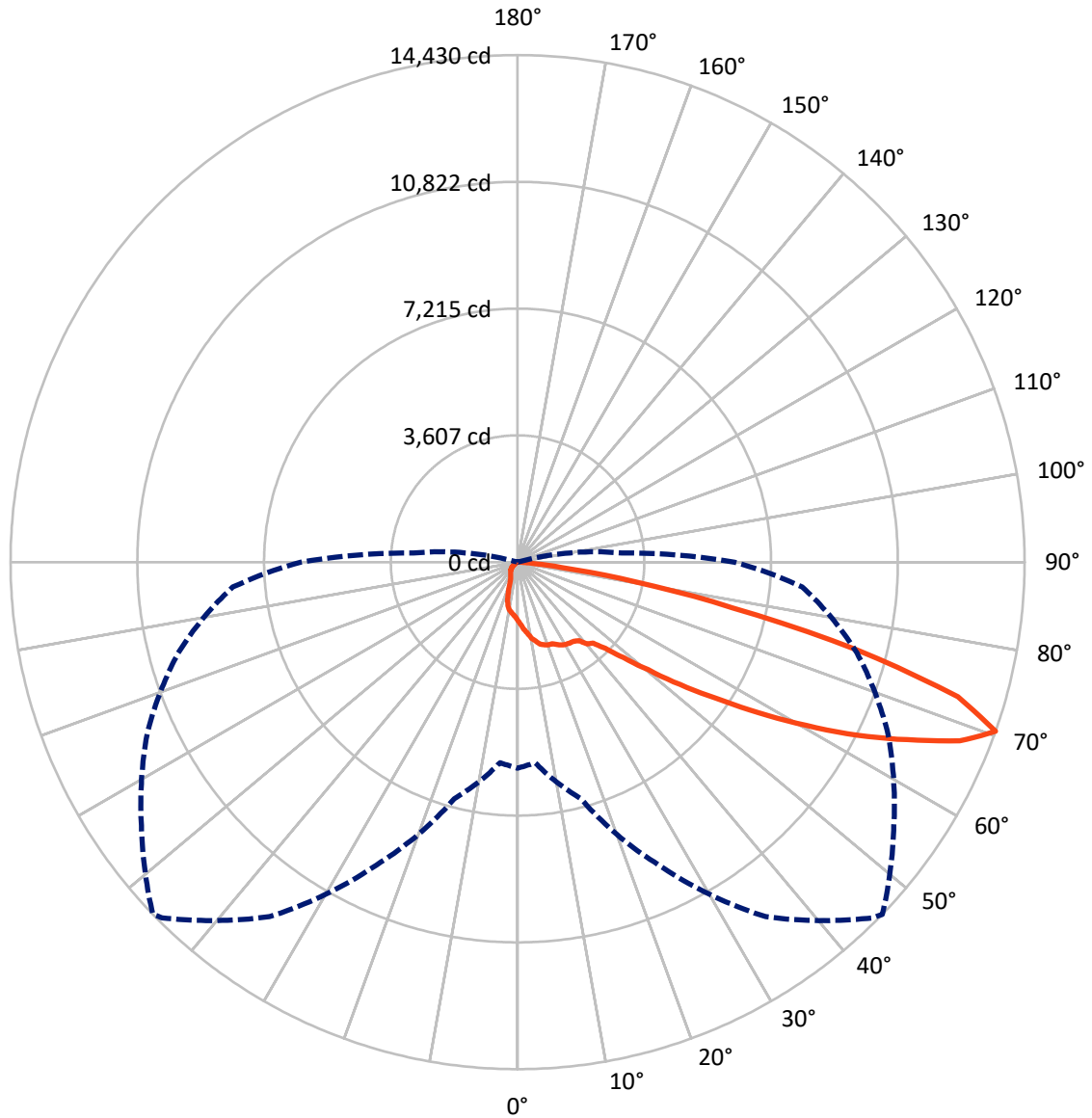
× Max cd  
 - - - 1/2 Max cd



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 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1691.8	0.0	1691.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	15310.7	0.0	15310.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	17002.5	0.0	17002.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.4	1.0
10°-20°	502.6	3.0
20°-30°	805.1	4.7
30°-40°	1149.1	6.8
40°-50°	1984.2	11.7
50°-60°	3799.0	22.3
60°-70°	5625.7	33.1
70°-80°	2786.3	16.4
80°-90°	184.1	1.1
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°	17002.5	100.0
0°-180°	17002.5	100.0



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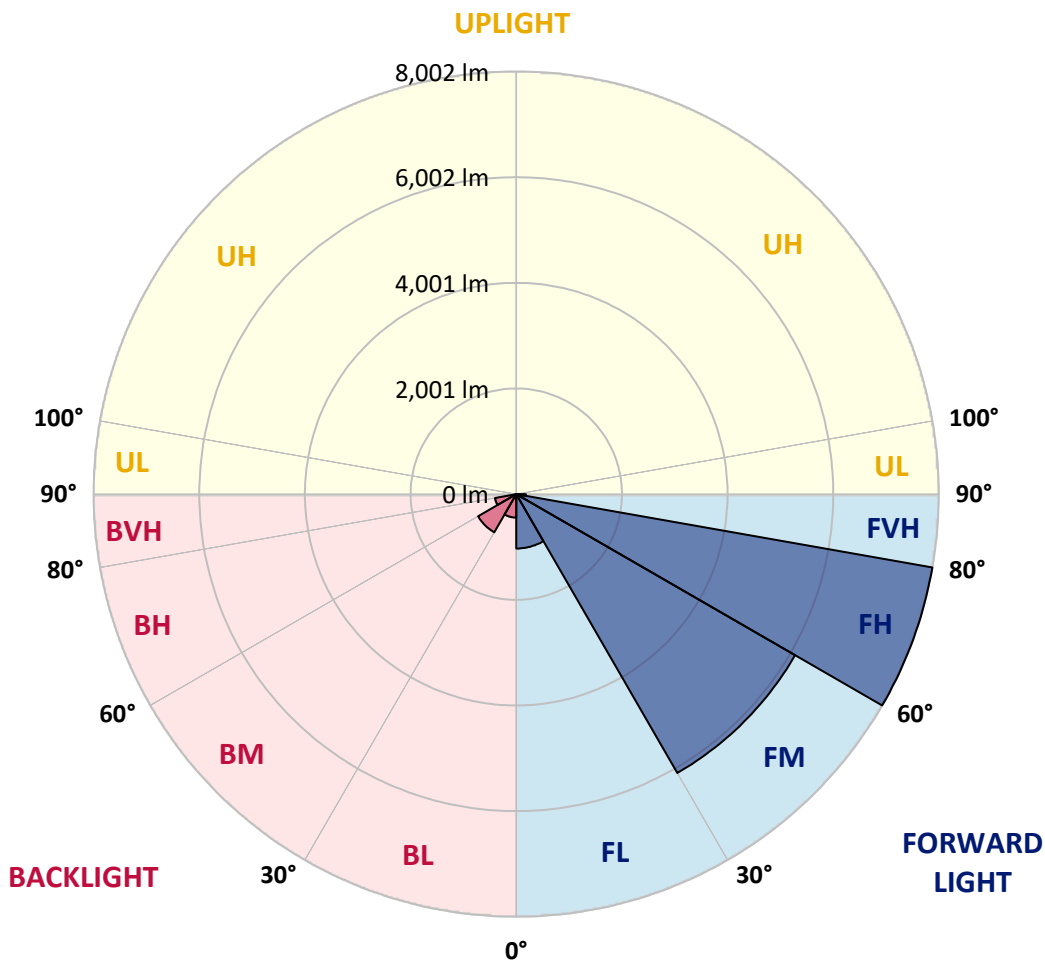
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.6	6.1			
FM (30°-60°)	6097.1	35.9			
FH (60°-80°)	8002.2	47.1			G4/12000
FVH (80°-90°)	181.8	1.1			G2/225
BL (0°-30°)	444.5	2.6	B1/500		
BM (30°-60°)	835.2	4.9	B1/1000		
BH (60°-80°)	409.7	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1
2.5°	1862.5	1850.2	1830.6	1823.3	1803.7	1793.9	1779.2	1771.9	1745.0	1718.1	1700.9
5°	2090.1	2060.7	2070.5	2041.1	1977.5	1926.1	1923.6	1867.4	1806.2	1757.2	1691.1
7.5°	2320.1	2295.6	2258.9	2217.3	2146.4	2070.5	2048.5	1994.6	1909.0	1823.3	1735.2
10°	2493.9	2476.8	2444.9	2386.2	2288.3	2202.6	2205.1	2114.5	2024.0	1926.1	1806.2
12.5°	2601.6	2608.9	2562.4	2503.7	2418.0	2310.3	2307.9	2246.7	2143.9	2041.1	1899.2
15°	2709.3	2736.2	2665.2	2596.7	2486.5	2408.2	2422.9	2349.5	2249.1	2131.7	1975.0
17.5°	2726.4	2733.7	2719.0	2618.7	2537.9	2471.9	2474.3	2425.4	2349.5	2222.2	2087.6
20°	2697.0	2692.1	2675.0	2601.6	2547.7	2508.6	2511.0	2498.8	2457.2	2354.4	2170.8
22.5°	2611.4	2611.4	2589.3	2540.4	2515.9	2552.6	2523.3	2569.8	2525.7	2464.5	2312.8
25°	2542.8	2569.8	2557.5	2525.7	2535.5	2584.4	2599.1	2643.2	2635.8	2560.0	2410.7
27.5°	2616.3	2584.4	2591.8	2555.1	2591.8	2665.2	2672.5	2704.4	2701.9	2640.7	2498.8
30°	2665.2	2694.6	2638.3	2557.5	2596.7	2721.5	2716.6	2758.2	2777.8	2704.4	2582.0
32.5°	2821.8	2797.4	2750.9	2643.2	2648.1	2719.0	2741.1	2794.9	2807.1	2763.1	2662.8
35°	3142.4	3105.7	2902.6	2741.1	2716.6	2750.9	2765.5	2870.8	2892.8	2843.9	2748.4
37.5°	3636.8	3553.6	3308.9	2951.5	2841.4	2834.1	2834.1	2973.6	3056.8	2944.2	2875.7
40°	4344.1	4226.6	3962.3	3340.7	3005.4	3034.8	3064.1	3140.0	3130.2	3056.8	3042.1
42.5°	5244.7	5154.2	4867.8	3994.1	3318.7	3171.8	3147.3	3250.1	3404.3	3374.9	3365.2
45°	5996.1	6001.0	5817.4	4889.9	3859.5	3487.5	3504.7	3583.0	3842.4	3820.4	3817.9
47.5°	6544.3	6475.8	6448.9	5753.8	4647.6	4087.1	4062.7	4116.5	4454.2	4593.7	4657.4
50°	7043.6	6997.1	6933.4	6593.3	5594.7	4838.5	4814.0	4818.9	5335.3	5531.1	5687.7
52.5°	7662.8	7721.5	7511.0	7303.0	6820.9	5815.0	5788.1	5692.6	6333.8	6603.0	6789.0
55°	8426.3	8316.2	8078.8	8186.5	7993.2	6869.8	6820.9	6708.3	7471.9	7584.4	7780.2
57.5°	8595.2	8512.0	8756.7	9138.5	9324.5	8108.2	8088.6	7885.5	8428.8	8326.0	8879.1
60°	9016.2	9038.2	9378.4	10137.1	10460.1	9537.5	9442.0	9084.7	9356.3	9375.9	9965.7
62.5°	9449.3	9398.0	10159.1	10888.4	11385.2	10890.9	10859.0	10149.3	10457.7	10208.0	10988.8
65°	9131.2	9209.5	10298.6	11519.8	12584.4	12214.9	12188.0	11174.8	11343.6	11032.8	11404.8
67.5°	8000.5	7841.4	9366.1	11231.0	13201.2	13602.6	13573.2	12293.2	11842.9	11027.9	10540.9
70°	5863.9	5726.9	6970.1	9510.5	12317.7	14312.3	14429.8	13071.5	11639.8	10000.0	8132.7
72.5°	2873.2	2875.7	3906.0	6448.9	9745.5	13044.6	13103.3	11984.8	10000.0	7371.5	4606.0
75°	849.2	859.0	1446.4	3162.0	6299.6	9907.0	9973.1	9096.9	6931.0	3808.1	1571.2
77.5°	310.8	310.8	479.7	1187.0	3142.4	6253.1	6248.2	5584.9	3509.5	1289.8	367.1
80°	161.5	168.9	249.6	484.6	1360.7	3257.5	3379.8	2733.7	1333.8	543.3	107.7
82.5°	66.1	73.4	137.1	249.6	653.5	1142.9	1250.6	1072.0	580.0	379.3	48.9
85°	19.6	22.0	66.1	139.5	257.0	286.3	318.2	359.8	364.7	293.7	22.0
87.5°	2.4	2.4	26.9	46.5	56.3	61.2	71.0	71.0	186.0	205.6	12.2
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°	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1	1669.1
2.5°	1681.4	1669.1	1649.5	1605.5	1595.7	1563.9	1561.4	1532.1	1541.9	1522.3	1514.9
5°	1669.1	1642.2	1588.4	1554.1	1519.8	1497.8	1483.1	1470.9	1468.4	1458.6	1453.7
7.5°	1691.1	1654.4	1571.2	1517.4	1458.6	1439.1	1407.2	1404.8	1387.7	1370.5	1370.5
10°	1764.6	1698.5	1607.9	1517.4	1441.5	1377.9	1304.5	1250.6	1231.0	1187.0	1191.9
12.5°	1823.3	1764.6	1632.4	1539.4	1424.4	1280.0	1118.5	993.6	934.9	878.6	900.6
15°	1906.5	1820.9	1678.9	1544.3	1358.3	1108.7	844.3	704.8	651.0	638.8	636.3
17.5°	1997.1	1906.5	1737.6	1532.1	1223.7	856.6	621.6	540.9	550.7	565.3	562.9
20°	2097.4	1987.3	1781.7	1490.5	1010.8	621.6	509.1	506.6	521.3	543.3	548.2
22.5°	2202.6	2107.2	1835.5	1365.6	753.8	499.3	489.5	489.5	499.3	526.2	521.3
25°	2320.1	2192.9	1862.5	1172.3	540.9	460.1	465.0	474.8	479.7	501.7	504.2
27.5°	2410.7	2288.3	1869.8	939.8	440.5	425.8	438.1	450.3	457.7	474.8	482.1
30°	2493.9	2408.2	1830.6	700.0	403.8	396.5	401.4	418.5	433.2	447.9	447.9
32.5°	2599.1	2476.8	1740.1	496.8	381.8	369.6	367.1	374.4	391.6	408.7	408.7
35°	2706.8	2591.8	1595.7	398.9	362.2	345.1	335.3	327.9	335.3	347.5	357.3
37.5°	2863.4	2765.5	1414.6	367.1	347.5	323.1	303.5	286.3	274.1	271.7	279.0
40°	3086.2	2961.3	1182.1	345.1	330.4	301.0	271.7	242.3	215.4	198.2	200.7
42.5°	3423.9	3250.1	930.0	332.8	318.2	276.6	234.9	193.3	159.1	141.9	141.9
45°	3906.0	3631.9	682.8	320.6	303.5	247.2	193.3	144.4	110.1	100.3	102.8
47.5°	4632.9	4092.0	489.5	301.0	283.9	215.4	151.7	102.8	80.8	75.9	78.3
50°	5582.5	4637.8	381.8	279.0	259.4	181.1	112.6	75.9	63.6	61.2	63.6
52.5°	6578.6	5188.5	335.3	259.4	222.7	144.4	83.2	61.2	53.8	51.4	53.8
55°	7430.3	5543.3	291.2	230.1	178.7	107.7	66.1	53.8	46.5	39.2	39.2
57.5°	8291.7	5722.0	230.1	190.9	132.2	80.8	56.3	46.5	39.2	31.8	29.4
60°	8991.7	5849.2	164.0	141.9	93.0	63.6	48.9	41.6	31.8	24.5	22.0
62.5°	9451.8	5484.6	119.9	107.7	68.5	53.8	41.6	34.3	24.5	17.1	17.1
65°	9224.2	4980.4	93.0	75.9	51.4	41.6	34.3	24.5	17.1	9.8	7.3
67.5°	8277.1	4057.8	75.9	56.3	39.2	31.8	26.9	19.6	9.8	2.4	2.4
70°	6174.7	2973.6	61.2	41.6	31.8	24.5	19.6	12.2	4.9	2.4	0.0
72.5°	3377.4	1627.5	48.9	34.3	24.5	19.6	14.7	9.8	4.9	0.0	0.0
75°	1116.0	433.2	36.7	24.5	14.7	12.2	9.8	7.3	2.4	0.0	0.0
77.5°	269.2	112.6	29.4	22.0	12.2	7.3	4.9	2.4	2.4	0.0	0.0
80°	83.2	46.5	22.0	14.7	9.8	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.3	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.9	2.4	2.4	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)