

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: P483368

Luminaire Tested: **IFLD-L-SA7A-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483368  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

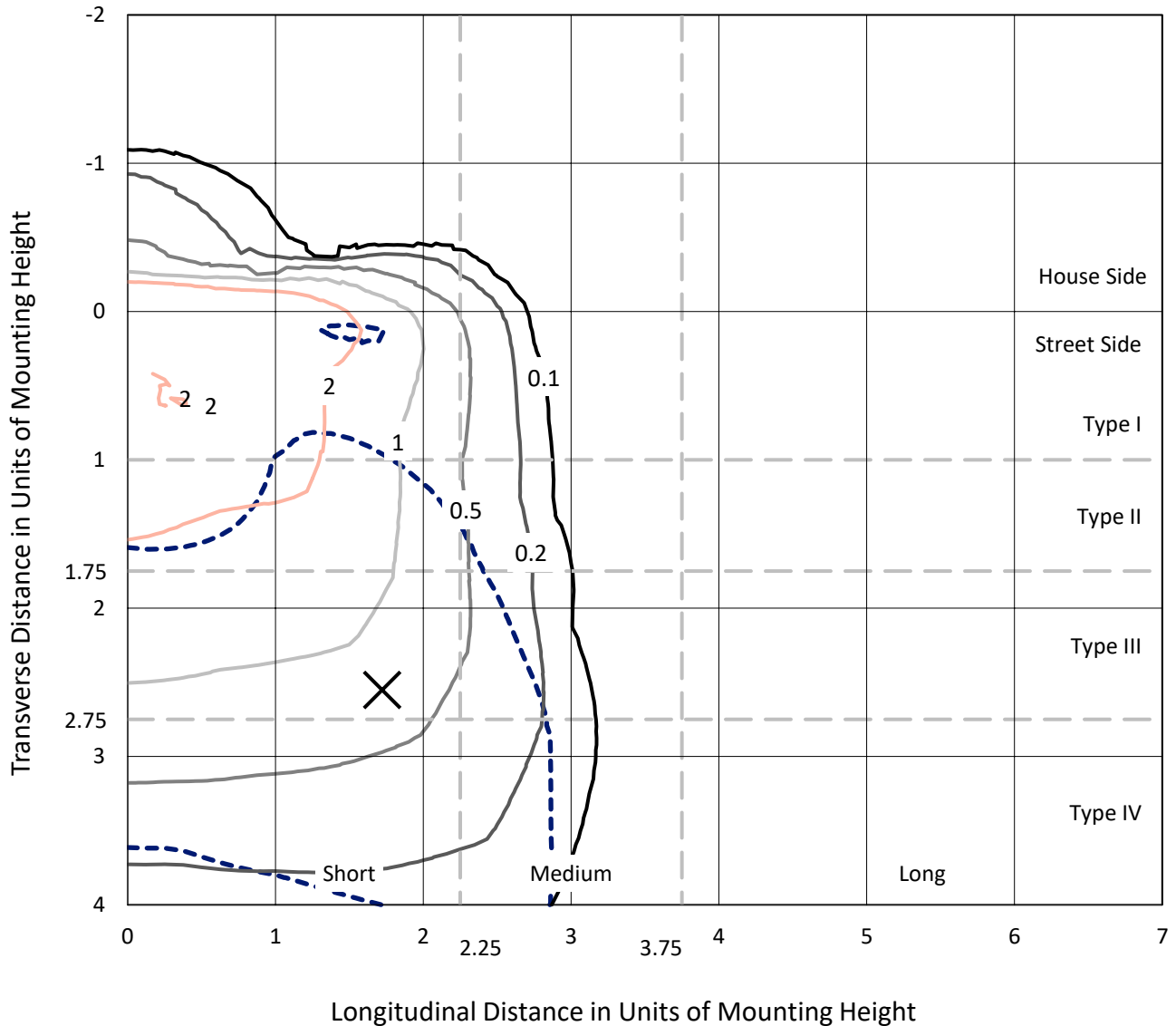
Lumens per Lamp: N/A  
Luminaire Lumens: 16637.5 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
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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 CATALOG NUMBER: IFLD-L-SA7A-827-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

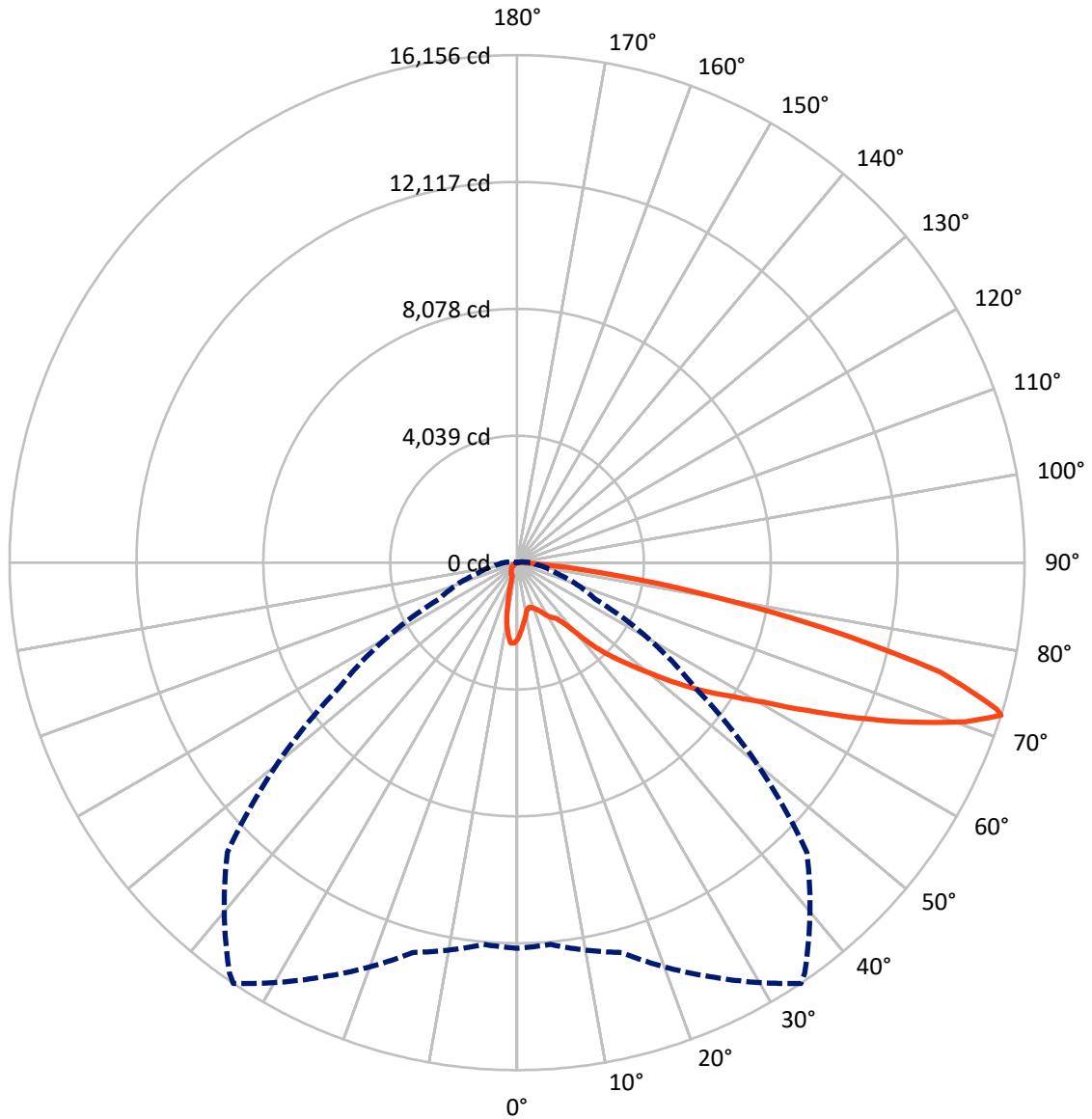
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P483368  
CATALOG NUMBER: IFLD-L-SA7A-827-U-T4FT-HSS

### 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	1703.3	0.0	1703.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	14934.2	0.0	14934.2
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	16637.5	0.0	16637.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.3	1.3
10°-20°	478.4	2.9
20°-30°	722.1	4.3
30°-40°	1171.8	7.0
40°-50°	2203.4	13.2
50°-60°	3602.7	21.7
60°-70°	4789.2	28.8
70°-80°	3207.3	19.3
80°-90°	251.3	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°	16637.5	100.0
0°-180°	16637.5	100.0



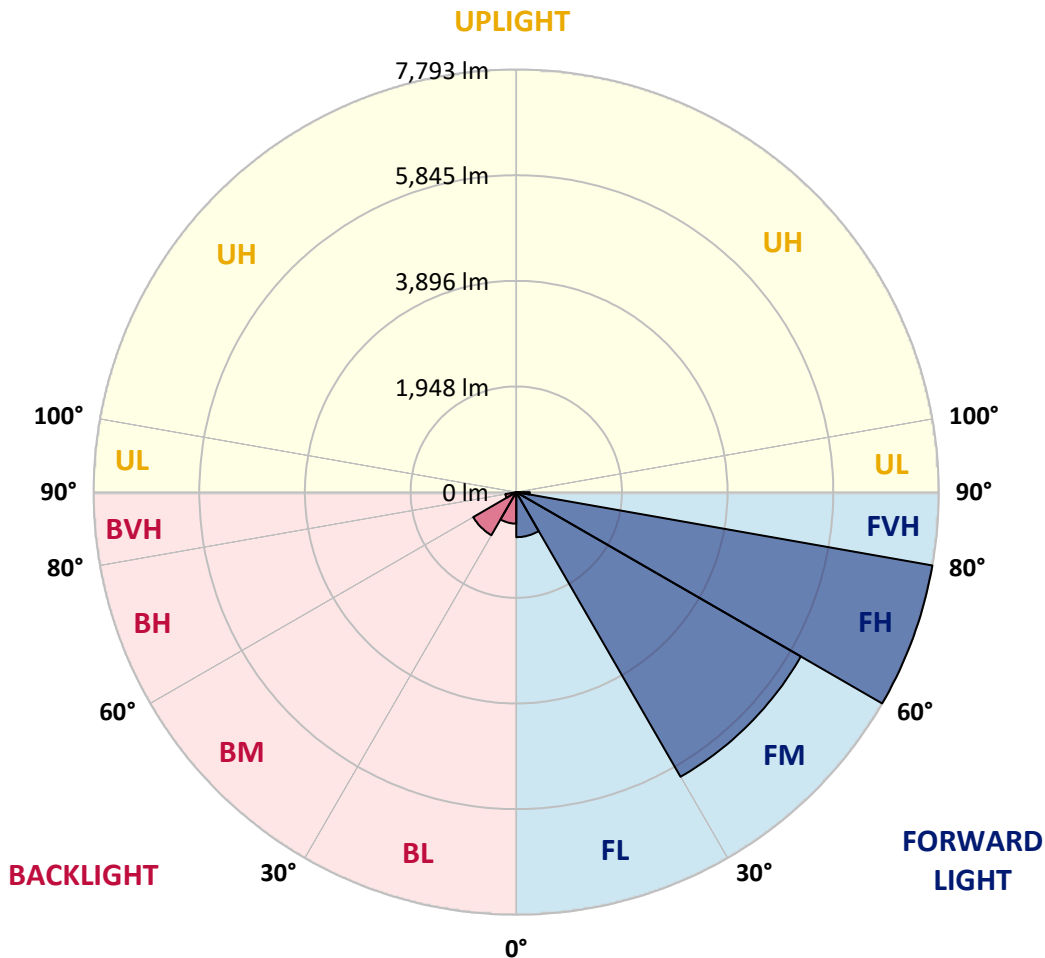
REPORT NUMBER: P483368  
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.6	5.0			
FM (30°-60°)	6061.0	36.4			
FH (60°-80°)	7792.9	46.8			G4/12000
FVH (80°-90°)	249.8	1.5			G3/500
BL (0°-30°)	581.2	3.5	B2/1000		
BM (30°-60°)	916.9	5.5	B1/1000		
BH (60°-80°)	203.7	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





REPORT NUMBER: P483368

CATALOG NUMBER: IFLD-L-SA7A-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2152.7	2147.9	2162.3	2186.3	2210.4	2200.8	2246.5	2294.6	2328.3	2374.0	2429.3
5°	1880.9	1892.9	1907.3	1955.4	1986.7	1993.9	2078.1	2140.6	2244.1	2349.9	2448.5
7.5°	1633.1	1647.6	1676.4	1729.4	1794.3	1811.1	1895.3	2020.4	2155.1	2294.6	2455.7
10°	1452.8	1467.2	1498.5	1532.1	1618.7	1618.7	1734.2	1907.3	2082.9	2246.5	2458.1
12.5°	1414.3	1421.5	1419.1	1445.5	1500.9	1512.9	1625.9	1815.9	2020.4	2229.6	2496.6
15°	1460.0	1464.8	1440.7	1426.3	1474.4	1486.4	1592.3	1760.6	1979.5	2239.3	2559.2
17.5°	1551.4	1534.5	1486.4	1464.8	1505.7	1512.9	1611.5	1758.2	1974.7	2265.7	2631.3
20°	1604.3	1623.5	1539.3	1498.5	1556.2	1565.8	1671.6	1796.7	1998.7	2311.4	2732.3
22.5°	1698.1	1707.7	1594.7	1568.2	1623.5	1623.5	1743.8	1873.7	2056.5	2386.0	2852.6
25°	1830.4	1818.3	1686.1	1659.6	1712.5	1734.2	1854.4	1996.3	2145.5	2455.7	2963.2
27.5°	1933.8	1941.0	1832.8	1763.0	1852.0	1866.5	1996.3	2128.6	2212.8	2513.5	3097.9
30°	2087.7	2073.3	1957.9	1878.5	1989.1	1991.5	2116.6	2253.7	2342.7	2616.9	3300.0
32.5°	2270.5	2241.7	2109.4	1996.3	2085.3	2107.0	2234.5	2434.1	2544.7	2811.7	3612.6
35°	2657.8	2588.0	2371.5	2196.0	2203.2	2212.8	2410.0	2696.3	2823.7	3059.4	4031.2
37.5°	3223.0	3194.1	2948.8	2614.5	2487.0	2458.1	2679.4	3042.6	3201.3	3386.6	4574.7
40°	3783.4	3742.5	3514.0	3261.5	3030.6	2972.9	3083.5	3502.0	3646.3	3841.1	5132.7
42.5°	4406.4	4334.2	4064.8	3860.4	3716.1	3653.5	3610.2	4079.3	4242.8	4375.1	5678.7
45°	5036.5	4918.7	4529.0	4372.7	4295.7	4262.1	4257.2	4805.6	4904.2	4930.7	6284.8
47.5°	5589.7	5462.3	5108.7	4933.1	4875.4	4865.8	5135.1	5642.6	5565.7	5495.9	6960.7
50°	6015.5	5933.7	5678.7	5616.2	5572.9	5556.1	6186.2	6503.7	6147.7	6025.1	7554.8
52.5°	6674.5	6491.7	6203.1	6224.7	6376.2	6378.6	7251.7	7321.5	6631.2	6388.3	8115.2
55°	7201.2	7081.0	6845.3	6814.0	7213.3	7256.6	8206.6	7942.0	6900.6	6734.6	8322.1
57.5°	7821.8	7766.5	7595.7	7600.5	8019.0	8110.4	9055.7	8466.4	7124.3	6958.3	8353.3
60°	8718.9	8560.2	8471.2	8512.1	9005.1	9094.1	9878.2	8844.0	7232.5	7105.0	8276.4
62.5°	9709.9	9524.7	9428.5	9637.7	10356.9	10371.3	10503.6	9178.3	7165.2	7143.5	7780.9
65°	10902.9	10720.1	10643.1	11064.0	11917.9	11865.0	11381.5	9320.2	6951.1	6756.3	6479.7
67.5°	12091.0	11980.4	11821.7	12492.7	13555.8	13555.8	12293.1	9267.3	6390.7	5423.8	4238.0
70°	12653.9	12730.8	12983.4	14036.9	15164.9	15049.5	13192.6	8658.8	4757.5	2912.7	1666.8
72°	12278.7	12199.3	12851.1	14542.0	16155.9	15965.9	13041.1	6883.7	2749.2	1277.2	579.7
72.5°	11634.1	11708.6	12605.8	14472.2	15970.7	16127.0	12670.7	6349.8	2260.9	1017.4	437.8
75°	7133.9	7261.4	9409.2	12288.3	13916.6	13741.0	9801.3	3025.8	868.3	432.9	156.3
77.5°	2604.9	2710.7	4565.1	7732.8	9897.5	9786.8	5671.5	1075.1	471.4	322.3	79.4
80°	678.3	733.6	1551.4	3566.9	5820.6	5827.9	2374.0	430.5	319.9	264.6	48.1
82.5°	134.7	149.1	476.2	1387.8	2720.3	2684.2	750.4	230.9	240.5	216.5	33.7
85°	16.8	21.6	101.0	471.4	880.3	788.9	185.2	115.5	178.0	168.4	21.6
87.5°	2.4	2.4	24.1	108.2	185.2	180.4	38.5	36.1	79.4	103.4	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



REPORT NUMBER: P483368

CATALOG NUMBER: IFLD-L-SA7A-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2460.5	2470.2	2503.8	2532.7	2566.4	2576.0	2561.6	2585.6	2551.9	2571.2	2576.0
5°	2465.4	2520.7	2583.2	2624.1	2614.5	2590.4	2571.2	2506.2	2460.5	2443.7	2479.8
7.5°	2499.0	2561.6	2628.9	2628.9	2576.0	2450.9	2330.7	2215.2	2119.0	2070.9	2111.8
10°	2542.3	2607.3	2677.0	2585.6	2388.4	2159.9	1989.1	1772.6	1625.9	1549.0	1556.2
12.5°	2600.0	2691.4	2715.5	2503.8	2176.7	1837.6	1527.3	1226.7	1087.2	976.5	978.9
15°	2674.6	2763.6	2691.4	2325.8	1907.3	1407.1	1034.2	748.0	637.4	579.7	579.7
17.5°	2773.2	2840.6	2684.2	2162.3	1544.2	962.1	635.0	505.1	481.0	471.4	471.4
20°	2888.7	2939.2	2614.5	1907.3	1147.3	618.1	466.6	452.2	454.6	449.8	449.8
22.5°	3018.6	3035.4	2535.1	1611.5	776.9	457.0	435.3	437.8	440.2	435.3	437.8
25°	3155.7	3110.0	2419.7	1265.1	517.1	416.1	420.9	425.7	428.1	430.5	430.5
27.5°	3309.6	3218.2	2258.5	926.0	404.1	392.1	406.5	420.9	423.3	423.3	420.9
30°	3535.7	3384.1	2102.2	627.8	356.0	365.6	389.6	406.5	418.5	418.5	416.1
32.5°	3821.9	3557.3	1883.3	428.1	329.5	334.3	353.6	387.2	413.7	416.1	408.9
35°	4218.8	3766.6	1654.8	341.5	310.3	312.7	324.7	351.2	396.9	411.3	408.9
37.5°	4637.3	4004.7	1371.0	307.9	295.8	293.4	300.7	322.3	363.2	399.3	401.7
40°	5082.2	4254.8	1072.7	291.0	283.8	279.0	281.4	291.0	322.3	368.0	377.6
42.5°	5500.7	4480.9	805.7	274.2	271.8	267.0	267.0	269.4	286.2	317.5	322.3
45°	5952.9	4666.1	613.3	262.2	255.0	257.4	247.7	242.9	255.0	257.4	255.0
47.5°	6376.2	4851.3	490.7	247.7	240.5	240.5	228.5	218.9	218.9	197.2	194.8
50°	6773.1	4952.4	392.1	228.5	226.1	223.7	206.8	190.0	175.6	149.1	144.3
52.5°	7102.6	4947.5	303.1	204.4	211.7	204.4	178.0	153.9	132.3	108.2	103.4
55°	7201.2	4716.6	228.5	168.4	180.4	170.8	141.9	120.3	96.2	77.0	74.6
57.5°	7117.1	4365.5	173.2	129.9	139.5	129.9	108.2	89.0	67.3	52.9	48.1
60°	6835.6	3954.2	134.7	101.0	105.8	98.6	81.8	67.3	48.1	33.7	28.9
62.5°	6301.7	3439.5	103.4	79.4	77.0	77.0	62.5	50.5	33.7	19.2	16.8
65°	5171.2	2681.8	79.4	55.3	55.3	55.3	48.1	36.1	21.6	9.6	4.8
67.5°	3247.0	1561.0	64.9	43.3	40.9	40.9	33.7	24.1	12.0	2.4	0.0
70°	1221.9	572.4	50.5	33.7	31.3	31.3	24.1	14.4	7.2	0.0	0.0
72°	420.9	218.9	40.9	24.1	24.1	21.6	16.8	12.0	4.8	0.0	0.0
72.5°	346.4	175.6	38.5	24.1	21.6	21.6	16.8	12.0	4.8	0.0	0.0
75°	125.1	72.2	26.5	16.8	14.4	14.4	12.0	7.2	2.4	0.0	0.0
77.5°	62.5	45.7	21.6	14.4	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	16.8	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.8	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)