

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: P483514

Luminaire Tested: **IFLD-S-SA6A-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483514  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

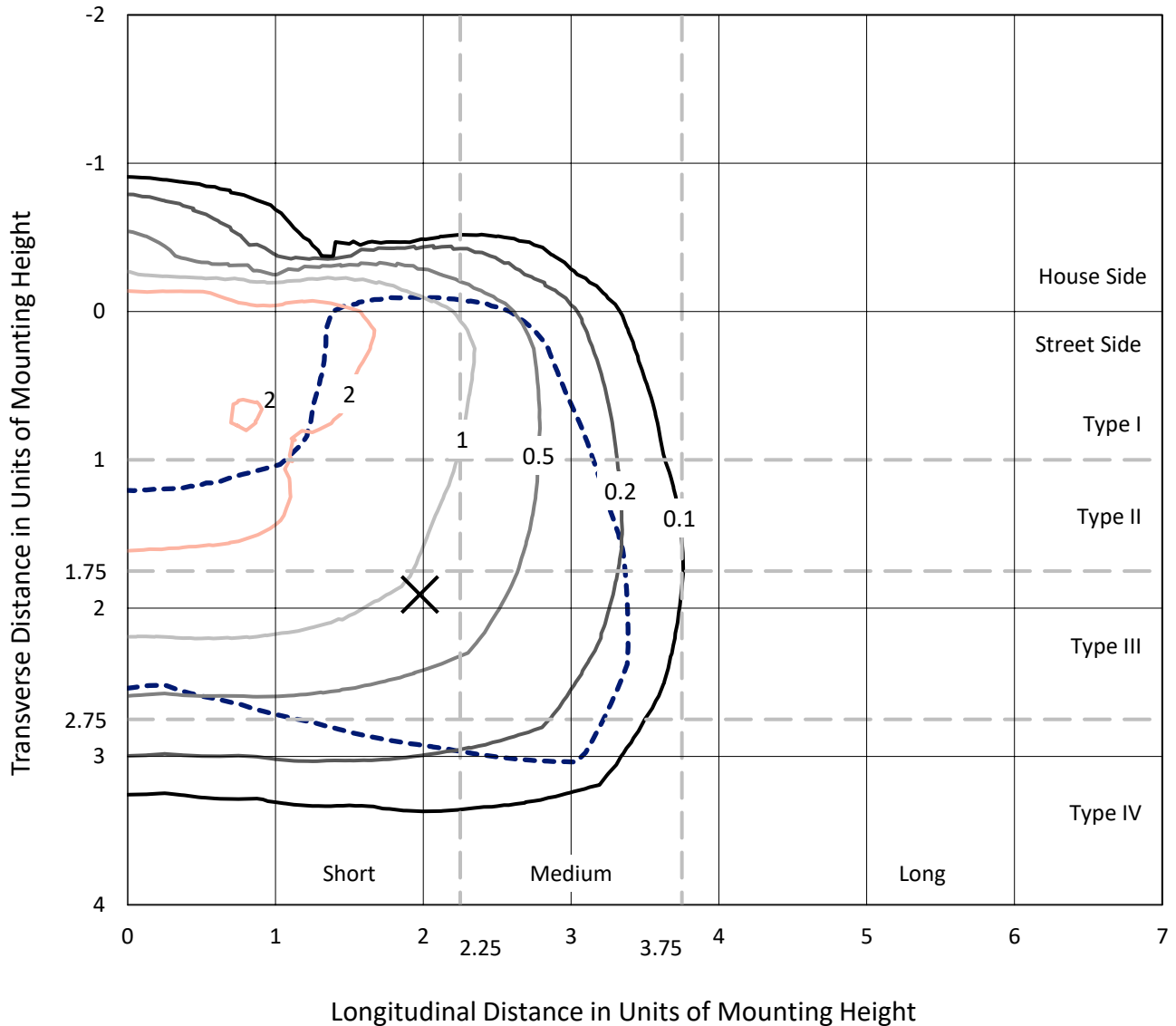
Lumens per Lamp: N/A  
Luminaire Lumens: 16654.2 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 189.6  
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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### Iso-Footcandle Lines of Horizontal Illumination

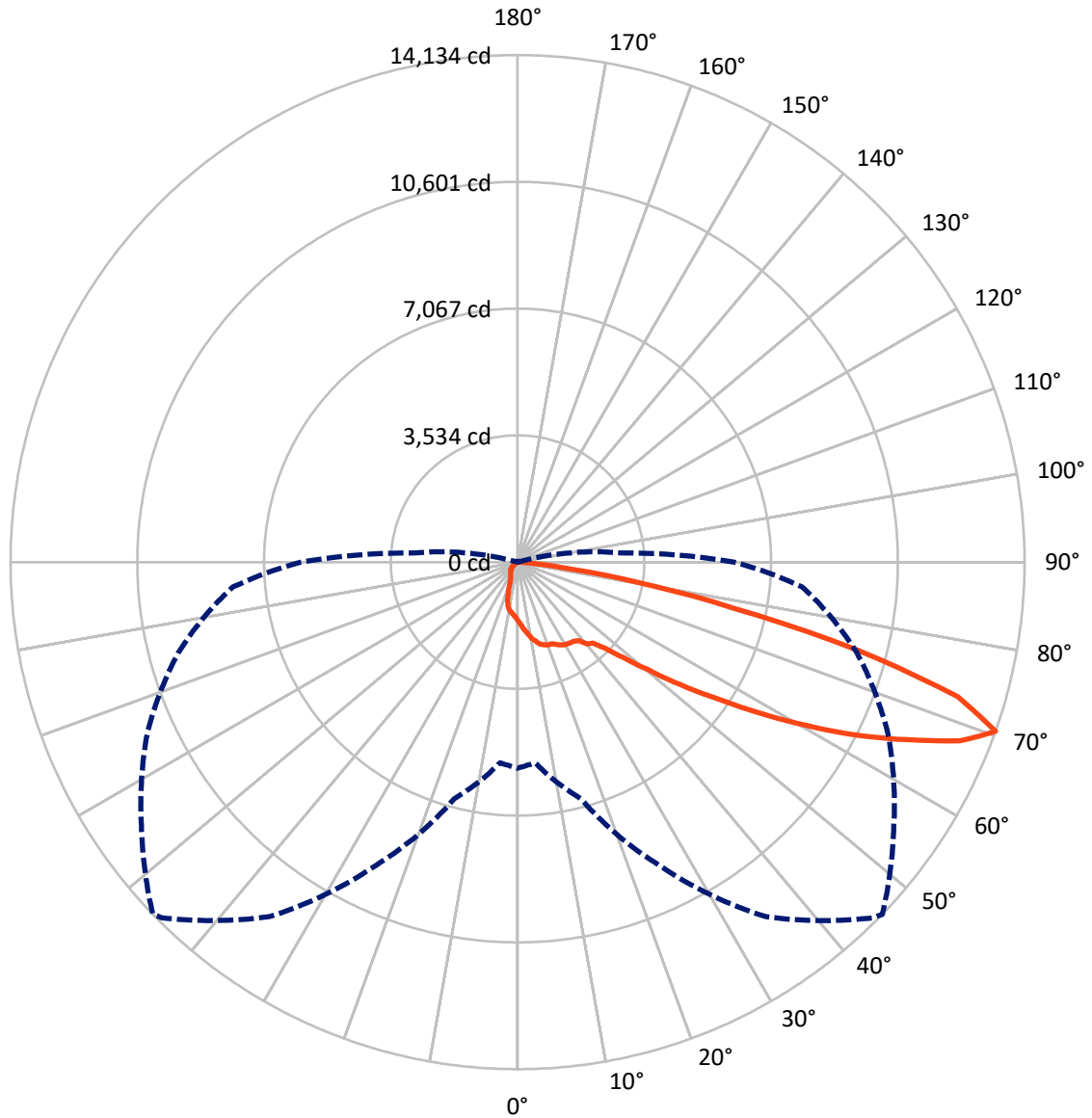
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1657.1	0.0	1657.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	14997.1	0.0	14997.1
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	16654.2	0.0	16654.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	1.0
10°-20°	492.3	3.0
20°-30°	788.6	4.7
30°-40°	1125.6	6.8
40°-50°	1943.6	11.7
50°-60°	3721.1	22.3
60°-70°	5510.4	33.1
70°-80°	2729.3	16.4
80°-90°	180.3	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°	16654.2	100.0
0°-180°	16654.2	100.0

**Coefficient of Utilization**

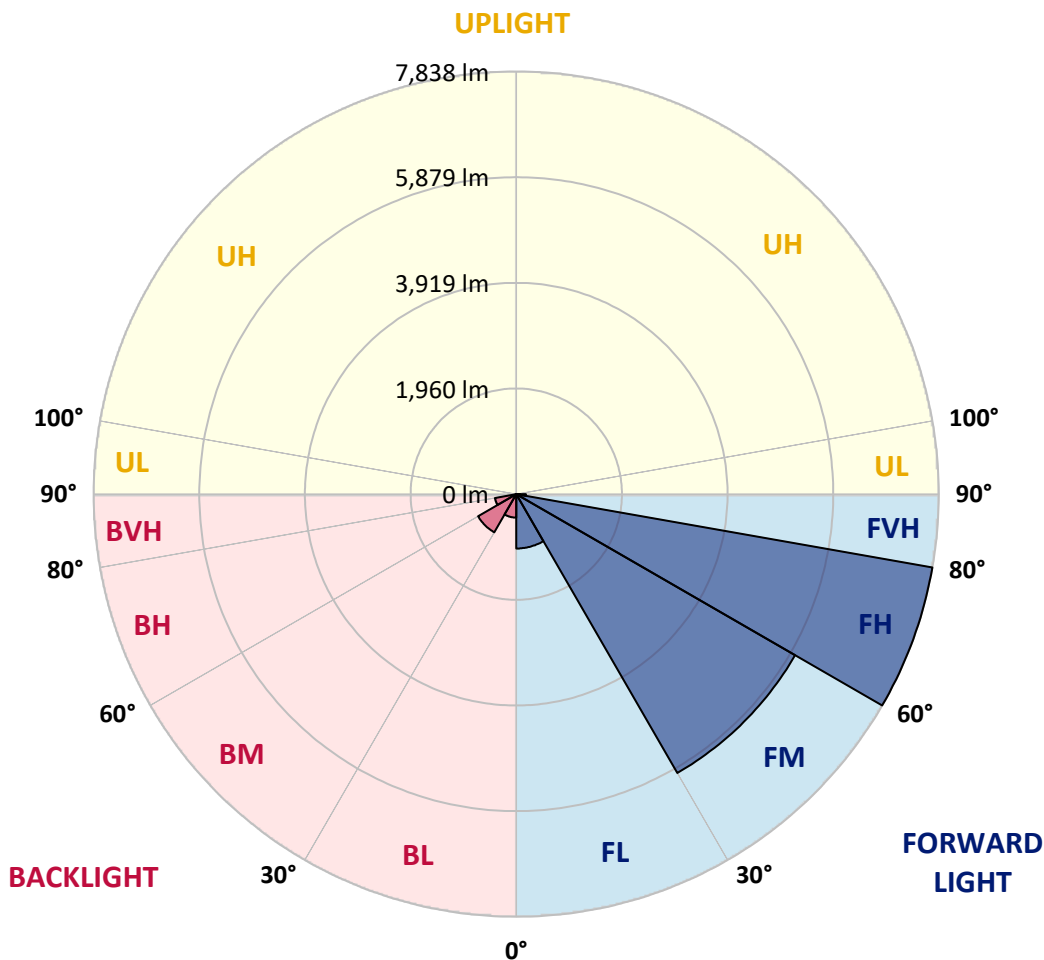


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.5	6.1			
FM (30°-60°)	5972.2	35.9			
FH (60°-80°)	7838.3	47.1			G4/12000
FVH (80°-90°)	178.0	1.1			G2/225
BL (0°-30°)	435.4	2.6	B1/500		
BM (30°-60°)	818.1	4.9	B1/1000		
BH (60°-80°)	401.4	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°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1824.3	1812.3	1793.1	1786.0	1766.8	1757.2	1742.8	1735.6	1709.2	1682.9	1666.1
5°	2047.3	2018.5	2028.1	1999.3	1937.0	1886.6	1884.2	1829.1	1769.2	1721.2	1656.5
7.5°	2272.6	2248.6	2212.7	2171.9	2102.4	2028.1	2006.5	1953.8	1869.9	1786.0	1699.6
10°	2442.8	2426.0	2394.9	2337.3	2241.4	2157.5	2159.9	2071.2	1982.5	1886.6	1769.2
12.5°	2548.3	2555.5	2509.9	2452.4	2368.5	2263.0	2260.6	2200.7	2100.0	1999.3	1860.3
15°	2653.8	2680.1	2610.6	2543.5	2435.6	2358.9	2373.3	2301.4	2203.1	2088.0	1934.6
17.5°	2670.5	2677.7	2663.3	2565.1	2485.9	2421.2	2423.6	2375.7	2301.4	2176.7	2044.9
20°	2641.8	2637.0	2620.2	2548.3	2495.5	2457.2	2459.6	2447.6	2406.8	2306.2	2126.4
22.5°	2557.9	2557.9	2536.3	2488.3	2464.4	2500.3	2471.6	2517.1	2474.0	2414.0	2265.4
25°	2490.7	2517.1	2505.1	2474.0	2483.5	2531.5	2545.9	2589.0	2581.8	2507.5	2361.3
27.5°	2562.7	2531.5	2538.7	2502.7	2538.7	2610.6	2617.8	2649.0	2646.6	2586.6	2447.6
30°	2610.6	2639.4	2584.2	2505.1	2543.5	2665.7	2660.9	2701.7	2720.9	2649.0	2529.1
32.5°	2764.0	2740.1	2694.5	2589.0	2593.8	2663.3	2684.9	2737.7	2749.6	2706.5	2608.2
35°	3078.1	3042.1	2843.1	2684.9	2660.9	2694.5	2708.9	2812.0	2833.5	2785.6	2692.1
37.5°	3562.3	3480.8	3241.1	2891.1	2783.2	2776.0	2776.0	2912.7	2994.2	2883.9	2816.8
40°	4255.1	4140.0	3881.1	3272.2	2943.8	2972.6	3001.4	3075.7	3066.1	2994.2	2979.8
42.5°	5137.3	5048.6	4768.1	3912.3	3250.7	3106.8	3082.9	3183.5	3334.6	3305.8	3296.2
45°	5873.3	5878.1	5698.3	4789.7	3780.5	3416.1	3432.9	3509.6	3763.7	3742.1	3739.7
47.5°	6410.2	6343.1	6316.7	5635.9	4552.4	4003.4	3979.4	4032.2	4363.0	4499.6	4562.0
50°	6899.3	6853.7	6791.4	6458.2	5480.1	4739.4	4715.4	4720.2	5226.0	5417.8	5571.2
52.5°	7505.8	7563.3	7357.2	7153.4	6681.1	5695.9	5669.5	5576.0	6204.1	6467.8	6650.0
55°	8253.7	8145.9	7913.3	8018.8	7829.4	6729.1	6681.1	6570.9	7318.8	7429.1	7620.9
57.5°	8419.1	8337.6	8577.4	8951.3	9133.5	7942.1	7922.9	7723.9	8256.1	8155.4	8697.2
60°	8831.5	8853.0	9186.3	9929.4	10245.8	9342.1	9248.6	8898.6	9164.7	9183.9	9761.6
62.5°	9255.8	9205.4	9951.0	10665.4	11152.0	10667.8	10636.6	9941.4	10243.4	9998.9	10763.6
65°	8944.1	9020.8	10087.6	11283.8	12326.7	11964.7	11938.3	10945.8	11111.2	10806.8	11171.2
67.5°	7836.6	7680.8	9174.3	11001.0	12930.8	13323.9	13295.1	12041.4	11600.3	10802.0	10324.9
70°	5743.8	5609.6	6827.4	9315.7	12065.4	14019.1	14134.2	12803.7	11401.3	9795.2	7966.1
72.5°	2814.4	2816.8	3826.0	6316.7	9545.8	12777.3	12834.9	11739.3	9795.2	7220.5	4511.6
75°	831.8	841.4	1416.8	3097.2	6170.5	9704.1	9768.8	8910.6	6789.0	3730.1	1539.0
77.5°	304.5	304.5	469.9	1162.7	3078.1	6125.0	6120.2	5470.5	3437.7	1263.3	359.6
80°	158.2	165.4	244.5	474.7	1332.9	3190.7	3310.6	2677.7	1306.5	532.2	105.5
82.5°	64.7	71.9	134.2	244.5	640.1	1119.5	1225.0	1050.0	568.1	371.6	47.9
85°	19.2	21.6	64.7	136.6	251.7	280.5	311.6	352.4	357.2	287.7	21.6
87.5°	2.4	2.4	26.4	45.5	55.1	59.9	69.5	69.5	182.2	201.4	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1646.9	1634.9	1615.7	1572.6	1563.0	1531.8	1529.4	1500.7	1510.3	1491.1	1483.9
5°	1634.9	1608.6	1555.8	1522.3	1488.7	1467.1	1452.7	1440.7	1438.3	1428.8	1424.0
7.5°	1656.5	1620.5	1539.0	1486.3	1428.8	1409.6	1378.4	1376.0	1359.2	1342.5	1342.5
10°	1728.4	1663.7	1575.0	1486.3	1412.0	1349.7	1277.7	1225.0	1205.8	1162.7	1167.5
12.5°	1786.0	1728.4	1599.0	1507.9	1395.2	1253.8	1095.5	973.3	915.7	860.6	882.2
15°	1867.5	1783.6	1644.5	1512.7	1330.5	1086.0	827.1	690.4	637.7	625.7	623.3
17.5°	1956.2	1867.5	1702.0	1500.7	1198.6	839.0	608.9	529.8	539.4	553.8	551.4
20°	2054.4	1946.6	1745.2	1459.9	990.1	608.9	498.6	496.2	510.6	532.2	537.0
22.5°	2157.5	2064.0	1797.9	1337.7	738.4	489.0	479.4	479.4	489.0	515.4	510.6
25°	2272.6	2147.9	1824.3	1148.3	529.8	450.7	455.5	465.1	469.9	491.4	493.8
27.5°	2361.3	2241.4	1831.5	920.5	431.5	417.1	429.1	441.1	448.3	465.1	472.3
30°	2442.8	2358.9	1793.1	685.6	395.5	388.4	393.1	409.9	424.3	438.7	438.7
32.5°	2545.9	2426.0	1704.4	486.6	374.0	362.0	359.6	366.8	383.6	400.3	400.3
35°	2651.4	2538.7	1563.0	390.8	354.8	338.0	328.4	321.2	328.4	340.4	350.0
37.5°	2804.8	2708.9	1385.6	359.6	340.4	316.4	297.3	280.5	268.5	266.1	273.3
40°	3022.9	2900.7	1157.9	338.0	323.6	294.9	266.1	237.3	211.0	194.2	196.6
42.5°	3353.8	3183.5	911.0	326.0	311.6	270.9	230.1	189.4	155.8	139.0	139.0
45°	3826.0	3557.5	668.8	314.0	297.3	242.1	189.4	141.4	107.9	98.3	100.7
47.5°	4538.0	4008.2	479.4	294.9	278.1	211.0	148.6	100.7	79.1	74.3	76.7
50°	5468.1	4542.8	374.0	273.3	254.1	177.4	110.3	74.3	62.3	59.9	62.3
52.5°	6443.8	5082.2	328.4	254.1	218.1	141.4	81.5	59.9	52.7	50.3	52.7
55°	7278.0	5429.8	285.3	225.3	175.0	105.5	64.7	52.7	45.5	38.4	38.4
57.5°	8121.9	5604.8	225.3	187.0	129.5	79.1	55.1	45.5	38.4	31.2	28.8
60°	8807.5	5729.4	160.6	139.0	91.1	62.3	47.9	40.8	31.2	24.0	21.6
62.5°	9258.2	5372.2	117.5	105.5	67.1	52.7	40.8	33.6	24.0	16.8	16.8
65°	9035.2	4878.4	91.1	74.3	50.3	40.8	33.6	24.0	16.8	9.6	7.2
67.5°	8107.5	3974.6	74.3	55.1	38.4	31.2	26.4	19.2	9.6	2.4	2.4
70°	6048.3	2912.7	59.9	40.8	31.2	24.0	19.2	12.0	4.8	2.4	0.0
72.5°	3308.2	1594.2	47.9	33.6	24.0	19.2	14.4	9.6	4.8	0.0	0.0
75°	1093.1	424.3	36.0	24.0	14.4	12.0	9.6	7.2	2.4	0.0	0.0
77.5°	263.7	110.3	28.8	21.6	12.0	7.2	4.8	2.4	2.4	0.0	0.0
80°	81.5	45.5	21.6	14.4	9.6	7.2	2.4	0.0	0.0	0.0	0.0
82.5°	33.6	21.6	9.6	9.6	7.2	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.8	12.0	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	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)