

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: P483553

Luminaire Tested: **IFLD-S-SA6A-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483553  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

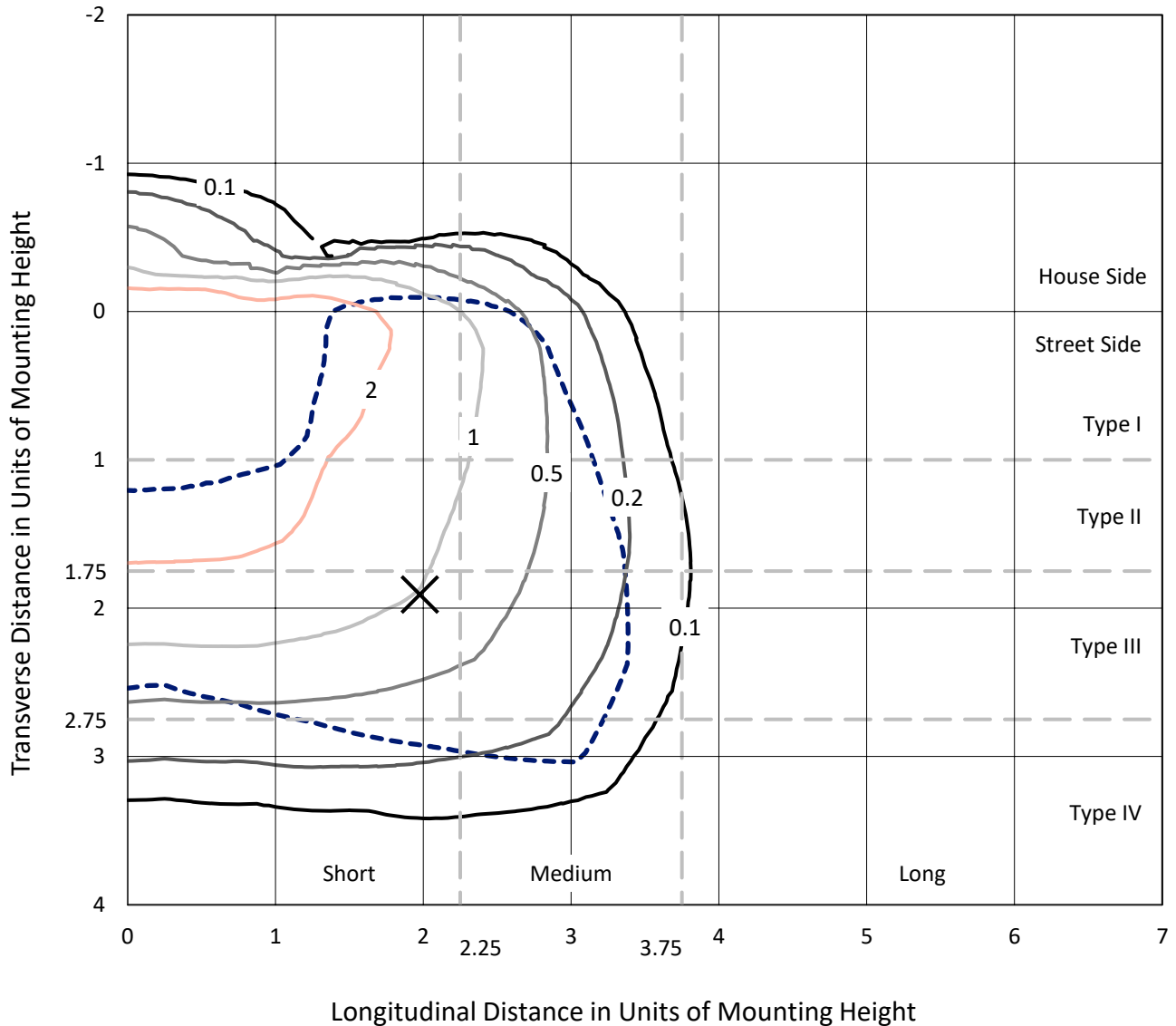
Lumens per Lamp: N/A  
Luminaire Lumens: 18133.8 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

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

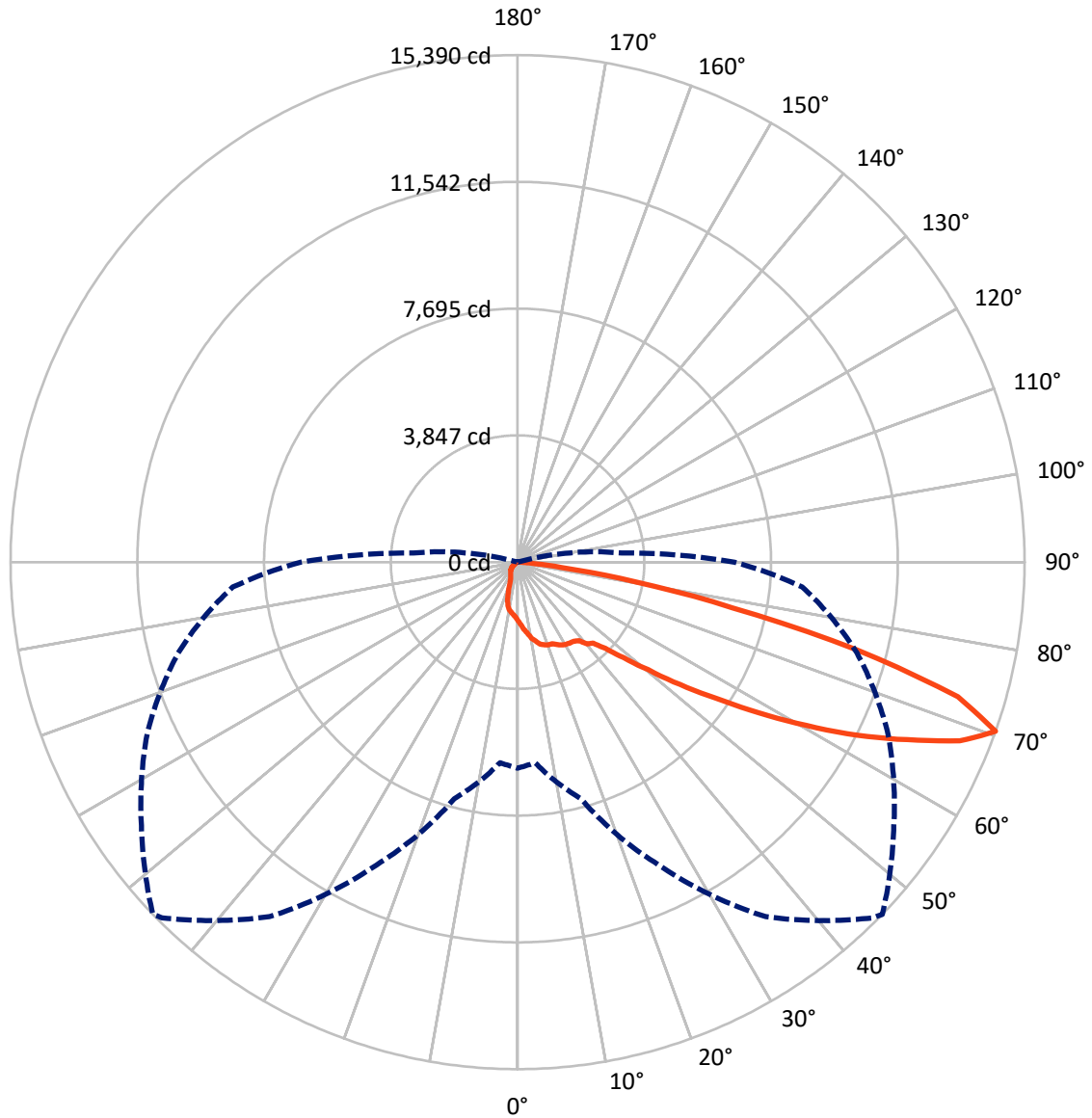
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1804.4	0.0	1804.4
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	16329.5	0.0	16329.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	18133.8	0.0	18133.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.5	1.0
10°-20°	536.0	3.0
20°-30°	858.6	4.7
30°-40°	1225.6	6.8
40°-50°	2116.3	11.7
50°-60°	4051.7	22.3
60°-70°	6000.0	33.1
70°-80°	2971.7	16.4
80°-90°	196.4	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°	18133.8	100.0
0°-180°	18133.8	100.0

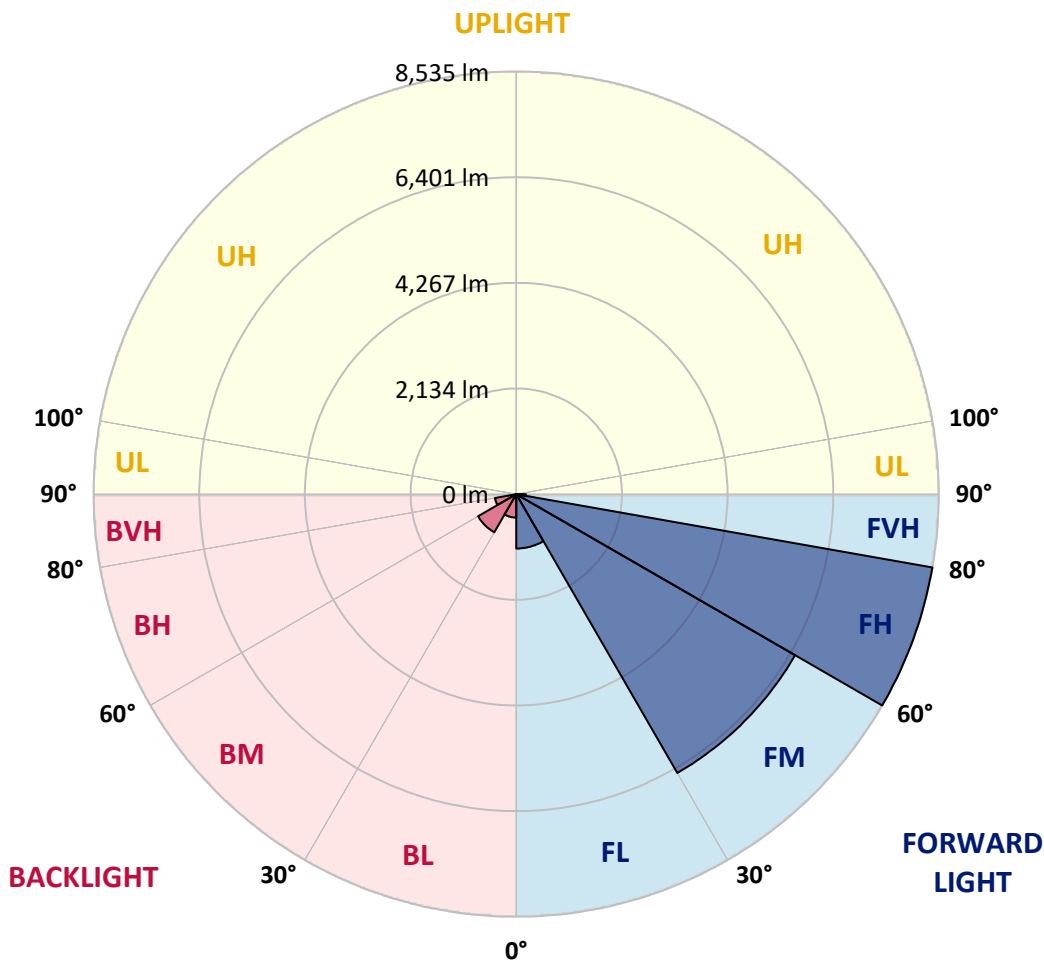


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.1	6.1			
FM (30°-60°)	6502.7	35.9			
FH (60°-80°)	8534.7	47.1			G4/12000
FVH (80°-90°)	193.9	1.1			G2/225
BL (0°-30°)	474.0	2.6	B1/500		
BM (30°-60°)	890.8	4.9	B1/1000		
BH (60°-80°)	437.0	2.4	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2
2.5°	1986.4	1973.3	1952.5	1944.6	1923.7	1913.3	1897.6	1889.8	1861.1	1832.4	1814.1
5°	2229.1	2197.8	2208.3	2176.9	2109.1	2054.3	2051.6	1991.6	1926.3	1874.1	1803.7
7.5°	2474.5	2448.4	2409.2	2364.9	2289.2	2208.3	2184.8	2127.3	2036.0	1944.6	1850.7
10°	2659.8	2641.6	2607.6	2545.0	2440.6	2349.2	2351.8	2255.2	2158.7	2054.3	1926.3
12.5°	2774.7	2782.5	2732.9	2670.3	2578.9	2464.1	2461.4	2396.2	2286.6	2176.9	2025.5
15°	2889.5	2918.2	2842.5	2769.5	2652.0	2568.5	2584.1	2505.8	2398.8	2273.5	2106.5
17.5°	2907.8	2915.6	2900.0	2792.9	2706.8	2636.3	2638.9	2586.7	2505.8	2370.1	2226.5
20°	2876.5	2871.3	2853.0	2774.7	2717.2	2675.5	2678.1	2665.0	2620.7	2511.0	2315.3
22.5°	2785.1	2785.1	2761.6	2709.4	2683.3	2722.5	2691.1	2740.7	2693.8	2628.5	2466.7
25°	2712.0	2740.7	2727.7	2693.8	2704.2	2756.4	2772.1	2819.0	2811.2	2730.3	2571.1
27.5°	2790.3	2756.4	2764.2	2725.1	2764.2	2842.5	2850.4	2884.3	2881.7	2816.4	2665.0
30°	2842.5	2873.9	2813.8	2727.7	2769.5	2902.6	2897.4	2941.7	2962.6	2884.3	2753.8
32.5°	3009.6	2983.5	2933.9	2819.0	2824.3	2900.0	2923.5	2980.9	2993.9	2946.9	2839.9
35°	3351.5	3312.4	3095.7	2923.5	2897.4	2933.9	2949.6	3061.8	3085.3	3033.1	2931.3
37.5°	3878.8	3790.1	3529.0	3147.9	3030.5	3022.6	3022.6	3171.4	3260.2	3140.1	3067.0
40°	4633.2	4507.9	4226.0	3563.0	3205.4	3236.7	3268.0	3348.9	3338.5	3260.2	3244.5
42.5°	5593.7	5497.1	5191.7	4259.9	3539.5	3382.9	3356.8	3466.4	3630.8	3599.5	3589.1
45°	6395.1	6400.3	6204.5	5215.2	4116.3	3719.6	3737.8	3821.4	4098.1	4074.6	4072.0
47.5°	6979.8	6906.7	6878.0	6136.6	4956.8	4359.1	4333.0	4390.4	4750.6	4899.4	4967.3
50°	7512.2	7462.6	7394.8	7032.0	5967.0	5160.4	5134.3	5139.5	5690.3	5899.1	6066.2
52.5°	8172.6	8235.3	8010.8	7788.9	7274.7	6201.9	6173.2	6071.4	6755.3	7042.4	7240.8
55°	8987.0	8869.6	8616.4	8731.2	8525.0	7326.9	7274.7	7154.6	7969.0	8089.1	8297.9
57.5°	9167.1	9078.4	9339.4	9746.6	9945.0	8647.7	8626.8	8410.2	8989.6	8880.0	9469.9
60°	9616.1	9639.6	10002.4	10811.6	11156.1	10172.1	10070.3	9689.2	9978.9	9999.8	10628.9
62.5°	10078.1	10023.3	10835.1	11612.9	12142.8	11615.5	11581.6	10824.6	11153.5	10887.3	11719.9
65°	9738.8	9822.3	10983.8	12286.3	13421.8	13027.7	12998.9	11918.3	12098.4	11766.9	12163.7
67.5°	8532.8	8363.2	9989.3	11978.3	14079.6	14507.7	14476.3	13111.2	12630.9	11761.7	11242.3
70°	6254.1	6107.9	7433.9	10143.3	13137.3	15264.6	15389.9	13941.2	12414.2	10665.4	8673.8
72.5°	3064.4	3067.0	4165.9	6878.0	10393.9	13912.5	13975.2	12782.3	10665.4	7862.0	4912.5
75°	905.7	916.2	1542.6	3372.4	6718.7	10566.2	10636.7	9702.2	7392.2	4061.5	1675.8
77.5°	331.5	331.5	511.6	1266.0	3351.5	6669.1	6663.9	5956.5	3743.1	1375.6	391.5
80°	172.3	180.1	266.2	516.8	1451.3	3474.2	3604.7	2915.6	1422.6	579.5	114.9
82.5°	70.5	78.3	146.2	266.2	696.9	1219.0	1333.8	1143.3	618.6	404.6	52.2
85°	20.9	23.5	70.5	148.8	274.1	305.4	339.3	383.7	388.9	313.2	23.5
87.5°	2.6	2.6	28.7	49.6	60.0	65.3	75.7	75.7	198.4	219.3	13.1
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°	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2	1780.2
2.5°	1793.2	1780.2	1759.3	1712.3	1701.9	1667.9	1665.3	1634.0	1644.4	1623.6	1615.7
5°	1780.2	1751.5	1694.0	1657.5	1621.0	1597.5	1581.8	1568.7	1566.1	1555.7	1550.5
7.5°	1803.7	1764.5	1675.8	1618.3	1555.7	1534.8	1500.9	1498.3	1480.0	1461.7	1461.7
10°	1882.0	1811.5	1714.9	1618.3	1537.4	1469.6	1391.3	1333.8	1312.9	1266.0	1271.2
12.5°	1944.6	1882.0	1741.0	1641.8	1519.2	1365.1	1192.9	1059.8	997.1	937.1	960.6
15°	2033.4	1942.0	1790.6	1647.1	1448.7	1182.4	900.5	751.7	694.3	681.3	678.7
17.5°	2129.9	2033.4	1853.3	1634.0	1305.1	913.6	663.0	576.9	587.3	603.0	600.4
20°	2237.0	2119.5	1900.2	1589.6	1078.0	663.0	542.9	540.3	556.0	579.5	584.7
22.5°	2349.2	2247.4	1957.7	1456.5	804.0	532.5	522.0	522.0	532.5	561.2	556.0
25°	2474.5	2338.8	1986.4	1250.3	576.9	490.7	495.9	506.4	511.6	535.1	537.7
27.5°	2571.1	2440.6	1994.2	1002.3	469.8	454.2	467.2	480.3	488.1	506.4	514.2
30°	2659.8	2568.5	1952.5	746.5	430.7	422.9	428.1	446.3	462.0	477.7	477.7
32.5°	2772.1	2641.6	1855.9	529.9	407.2	394.1	391.5	399.4	417.6	435.9	435.9
35°	2886.9	2764.2	1701.9	425.5	386.3	368.0	357.6	349.8	357.6	370.7	381.1
37.5°	3054.0	2949.6	1508.7	391.5	370.7	344.6	323.7	305.4	292.3	289.7	297.6
40°	3291.5	3158.4	1260.7	368.0	352.4	321.1	289.7	258.4	229.7	211.4	214.0
42.5°	3651.7	3466.4	991.9	355.0	339.3	295.0	250.6	206.2	169.7	151.4	151.4
45°	4165.9	3873.6	728.3	341.9	323.7	263.6	206.2	154.0	117.5	107.0	109.6
47.5°	4941.2	4364.3	522.0	321.1	302.8	229.7	161.8	109.6	86.1	80.9	83.5
50°	5953.9	4946.4	407.2	297.6	276.7	193.2	120.1	80.9	67.9	65.3	67.9
52.5°	7016.3	5533.7	357.6	276.7	237.5	154.0	88.7	65.3	57.4	54.8	57.4
55°	7924.7	5912.2	310.6	245.4	190.5	114.9	70.5	57.4	49.6	41.8	41.8
57.5°	8843.5	6102.7	245.4	203.6	141.0	86.1	60.0	49.6	41.8	33.9	31.3
60°	9590.0	6238.4	174.9	151.4	99.2	67.9	52.2	44.4	33.9	26.1	23.5
62.5°	10080.7	5849.5	127.9	114.9	73.1	57.4	44.4	36.5	26.1	18.3	18.3
65°	9838.0	5311.8	99.2	80.9	54.8	44.4	36.5	26.1	18.3	10.4	7.8
67.5°	8827.8	4327.8	80.9	60.0	41.8	33.9	28.7	20.9	10.4	2.6	2.6
70°	6585.6	3171.4	65.3	44.4	33.9	26.1	20.9	13.1	5.2	2.6	0.0
72.5°	3602.1	1735.8	52.2	36.5	26.1	20.9	15.7	10.4	5.2	0.0	0.0
75°	1190.3	462.0	39.2	26.1	15.7	13.1	10.4	7.8	2.6	0.0	0.0
77.5°	287.1	120.1	31.3	23.5	13.1	7.8	5.2	2.6	2.6	0.0	0.0
80°	88.7	49.6	23.5	15.7	10.4	7.8	2.6	0.0	0.0	0.0	0.0
82.5°	36.5	23.5	10.4	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.3	13.1	7.8	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	5.2	2.6	2.6	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)