

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: P483515

Luminaire Tested: **IFLD-S-SA6B-727-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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

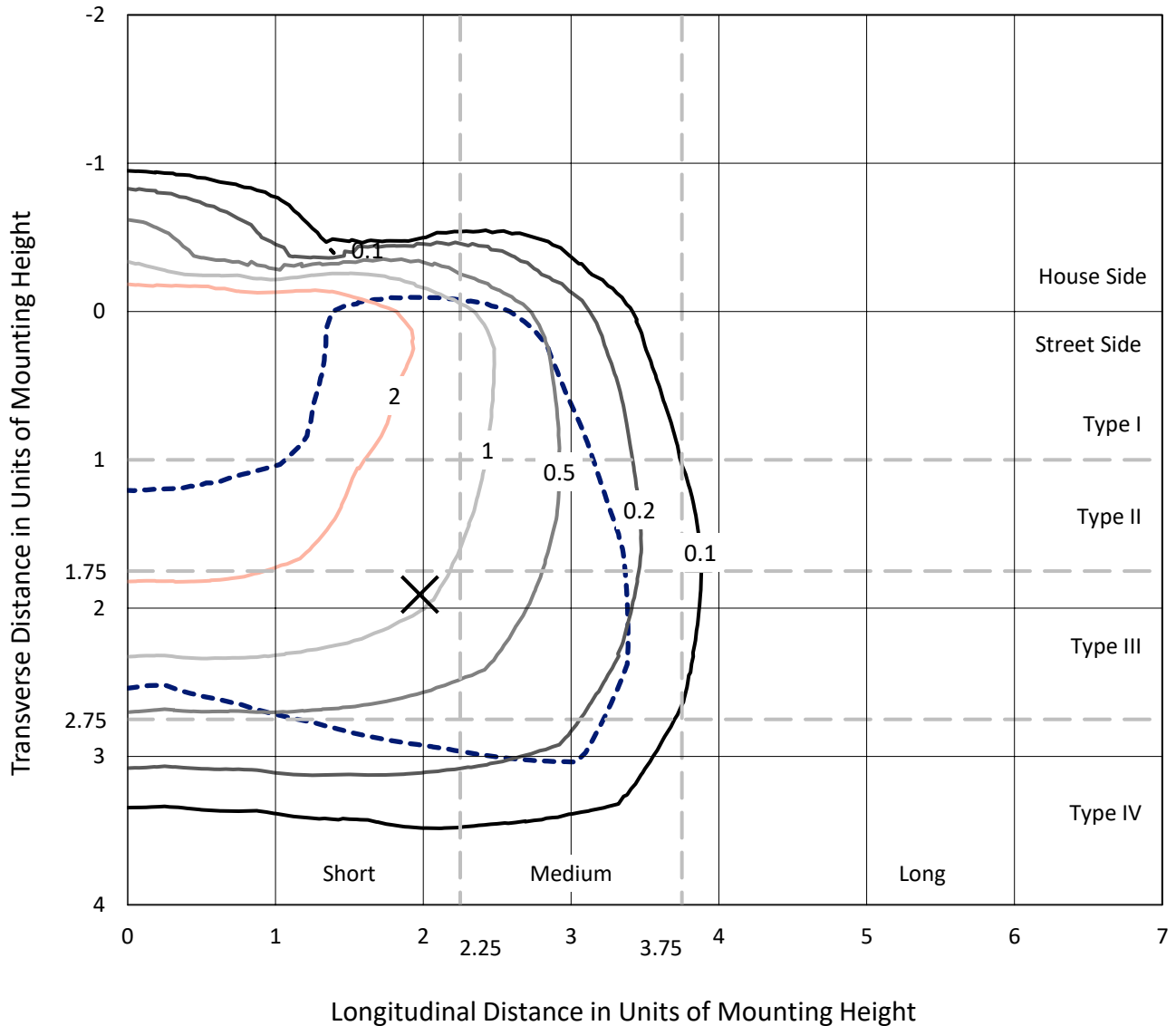
Lumens per Lamp: N/A
Luminaire Lumens: 20597 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

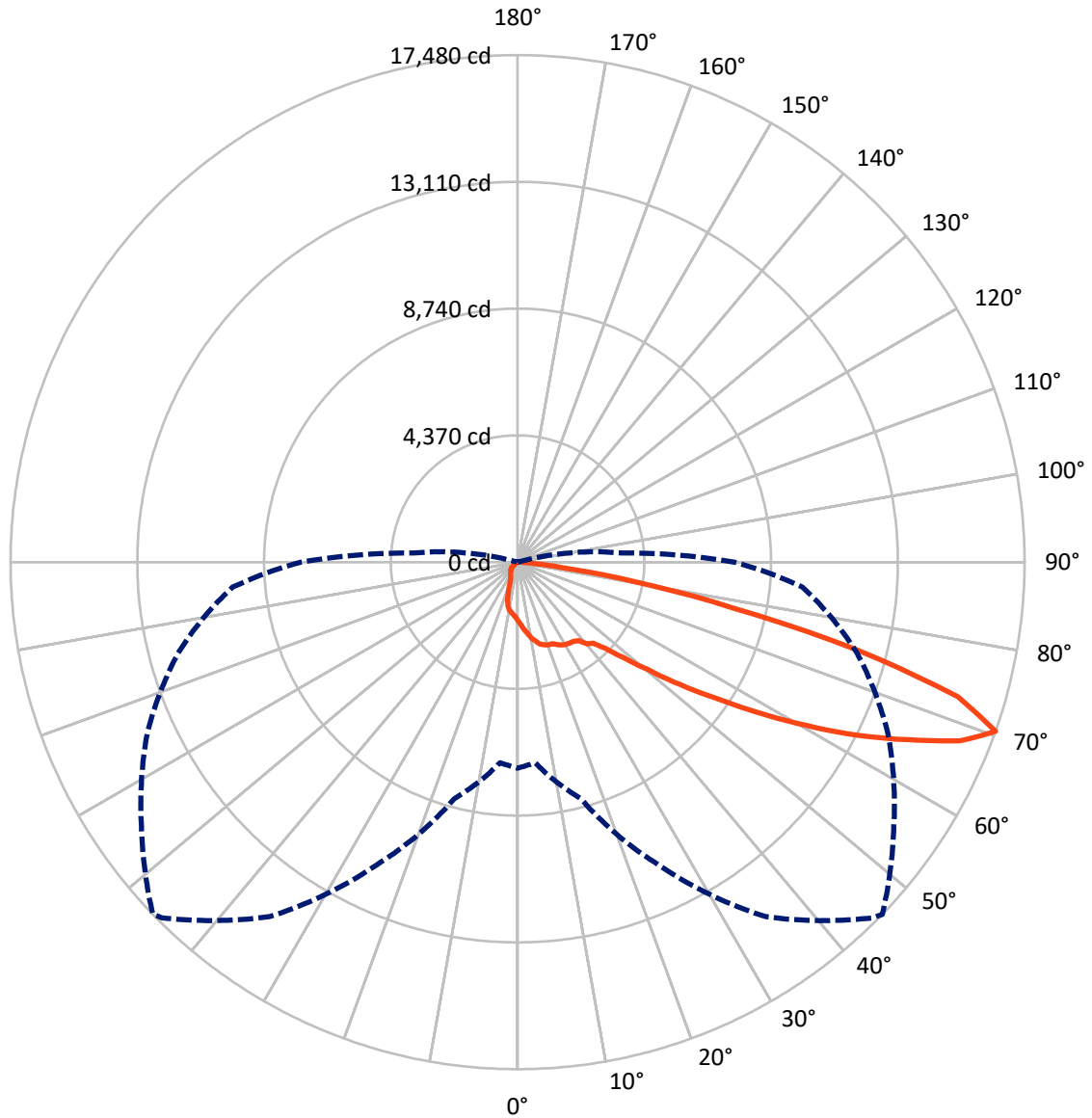
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
House Side	Lumens	2049.5	0.0	2049.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18547.5	0.0	18547.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	20597.0	0.0	20597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.0
10°-20°	608.9	3.0
20°-30°	975.3	4.7
30°-40°	1392.1	6.8
40°-50°	2403.7	11.7
50°-60°	4602.1	22.3
60°-70°	6815.0	33.1
70°-80°	3375.4	16.4
80°-90°	223.0	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°	20597.0	100.0
0°-180°	20597.0	100.0

Coefficient of Utilization

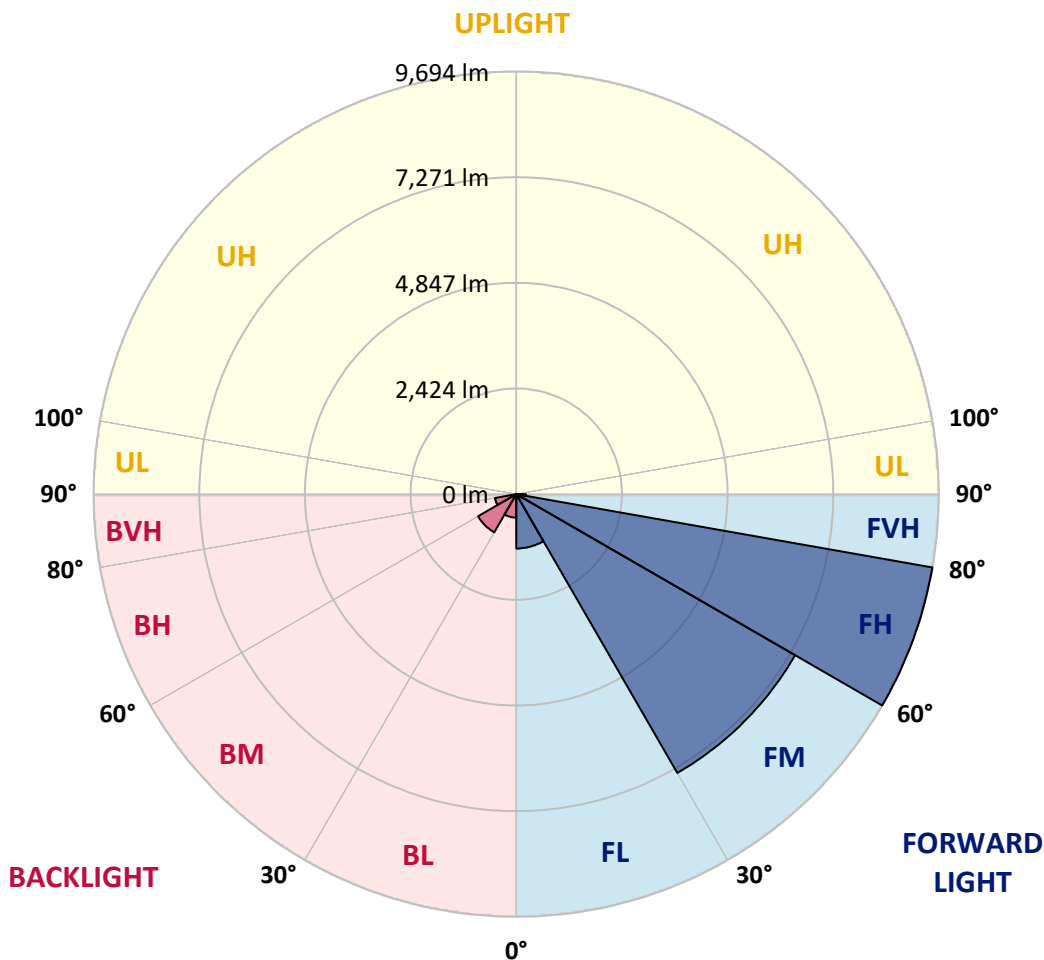


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.3	6.1			
FM	(30°-60°)	7386.0	35.9			
FH	(60°-80°)	9694.0	47.1			G4/12000
FVH	(80°-90°)	220.2	1.1			G2/225
BL	(0°-30°)	538.4	2.6	B2/1000		
BM	(30°-60°)	1011.8	4.9	B2/2500		
BH	(60°-80°)	496.4	2.4	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	35°	45°	46°	55°	65°	75°	85°
0°	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0
2.5°	2256.2	2241.4	2217.7	2208.8	2185.0	2173.2	2155.4	2146.5	2113.9	2081.3	2060.5
5°	2531.9	2496.3	2508.2	2472.6	2395.5	2333.3	2330.3	2262.1	2188.0	2128.7	2048.7
7.5°	2810.6	2781.0	2736.5	2686.1	2600.1	2508.2	2481.5	2416.3	2312.5	2208.8	2102.0
10°	3021.1	3000.4	2961.8	2890.7	2772.1	2668.3	2671.3	2561.6	2451.9	2333.3	2188.0
12.5°	3151.6	3160.5	3104.1	3033.0	2929.2	2798.8	2795.8	2721.7	2597.2	2472.6	2300.7
15°	3282.0	3314.6	3228.7	3145.6	3012.2	2917.3	2935.1	2846.2	2724.6	2582.3	2392.6
17.5°	3302.8	3311.7	3293.9	3172.3	3074.5	2994.4	2997.4	2938.1	2846.2	2692.0	2529.0
20°	3267.2	3261.3	3240.5	3151.6	3086.3	3038.9	3041.9	3027.0	2976.6	2852.1	2629.8
22.5°	3163.4	3163.4	3136.7	3077.4	3047.8	3092.3	3056.7	3113.0	3059.7	2985.5	2801.7
25°	3080.4	3113.0	3098.2	3059.7	3071.5	3130.8	3148.6	3202.0	3193.1	3101.2	2920.3
27.5°	3169.4	3130.8	3139.7	3095.2	3139.7	3228.7	3237.5	3276.1	3273.1	3199.0	3027.0
30°	3228.7	3264.2	3196.0	3098.2	3145.6	3296.8	3290.9	3341.3	3365.0	3276.1	3127.8
32.5°	3418.4	3388.7	3332.4	3202.0	3207.9	3293.9	3320.6	3385.8	3400.6	3347.2	3225.7
35°	3806.8	3762.3	3516.2	3320.6	3290.9	3332.4	3350.2	3477.7	3504.4	3445.1	3329.5
37.5°	4405.7	4304.9	4008.4	3575.5	3442.1	3433.2	3433.2	3602.2	3703.0	3566.6	3483.6
40°	5262.5	5120.2	4800.0	4046.9	3640.8	3676.3	3711.9	3803.8	3792.0	3703.0	3685.2
42.5°	6353.5	6243.8	5897.0	4838.5	4020.2	3842.4	3812.7	3937.2	4124.0	4088.4	4076.6
45°	7263.7	7269.7	7047.3	5923.6	4675.5	4224.8	4245.6	4340.4	4654.7	4628.0	4625.1
47.5°	7927.8	7844.8	7812.2	6970.2	5630.1	4951.2	4921.5	4986.8	5395.9	5564.9	5642.0
50°	8532.7	8476.3	8399.2	7987.1	6777.5	5861.4	5831.7	5837.7	6463.2	6700.4	6890.2
52.5°	9282.7	9353.9	9098.9	8846.9	8262.9	7044.3	7011.7	6896.1	7672.9	7999.0	8224.3
55°	10207.8	10074.3	9786.8	9917.2	9683.0	8322.2	8262.9	8126.5	9051.5	9187.9	9425.1
57.5°	10412.3	10311.5	10608.0	11070.5	11295.8	9822.3	9798.6	9552.5	10210.7	10086.2	10756.2
60°	10922.3	10949.0	11361.1	12280.1	12671.5	11553.8	11438.1	11005.3	11334.4	11358.1	12072.6
62.5°	11447.0	11384.8	12306.8	13190.3	13792.2	13193.3	13154.8	12295.0	12668.5	12366.1	13311.9
65°	11061.6	11156.5	12475.8	13955.2	15244.9	14797.2	14764.6	13537.2	13741.8	13365.3	13815.9
67.5°	9691.9	9499.2	11346.2	13605.4	15992.1	16478.3	16442.7	14892.1	14346.6	13359.3	12769.3
70°	7103.6	6937.6	8443.7	11521.2	14921.8	17338.1	17480.4	15834.9	14100.5	12114.1	9852.0
72.5°	3480.7	3483.6	4731.8	7812.2	11805.8	15802.3	15873.5	14518.6	12114.1	8929.9	5579.7
75°	1028.8	1040.6	1752.2	3830.5	7631.4	12001.5	12081.5	11020.1	8396.3	4613.2	1903.4
77.5°	376.5	376.5	581.1	1437.9	3806.8	7575.0	7569.1	6765.6	4251.5	1562.4	444.7
80°	195.7	204.6	302.4	587.0	1648.4	3946.1	4094.4	3311.7	1615.8	658.2	130.5
82.5°	80.0	88.9	166.0	302.4	791.6	1384.6	1515.0	1298.6	702.7	459.5	59.3
85°	23.7	26.7	80.0	169.0	311.3	346.9	385.4	435.8	441.8	355.8	26.7
87.5°	3.0	3.0	32.6	56.3	68.2	74.1	86.0	86.0	225.3	249.0	14.8
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°	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0	2022.0
2.5°	2036.8	2022.0	1998.3	1944.9	1933.0	1894.5	1891.5	1856.0	1867.8	1844.1	1835.2
5°	2022.0	1989.4	1924.1	1882.6	1841.1	1814.4	1796.7	1781.8	1778.9	1767.0	1761.1
7.5°	2048.7	2004.2	1903.4	1838.2	1767.0	1743.3	1704.8	1701.8	1681.0	1660.3	1660.3
10°	2137.6	2057.6	1947.9	1838.2	1746.3	1669.2	1580.2	1515.0	1491.3	1437.9	1443.9
12.5°	2208.8	2137.6	1977.5	1864.8	1725.5	1550.6	1354.9	1203.7	1132.5	1064.4	1091.0
15°	2309.6	2205.8	2033.8	1870.8	1645.5	1343.0	1022.9	853.9	788.6	773.8	770.8
17.5°	2419.3	2309.6	2105.0	1856.0	1482.4	1037.7	753.1	655.2	667.1	684.9	681.9
20°	2540.8	2407.4	2158.4	1805.6	1224.5	753.1	616.7	613.7	631.5	658.2	664.1
22.5°	2668.3	2552.7	2223.6	1654.4	913.2	604.8	593.0	593.0	604.8	637.4	631.5
25°	2810.6	2656.4	2256.2	1420.1	655.2	557.4	563.3	575.2	581.1	607.8	610.7
27.5°	2920.3	2772.1	2265.1	1138.5	533.7	515.9	530.7	545.5	554.4	575.2	584.1
30°	3021.1	2917.3	2217.7	847.9	489.2	480.3	486.2	507.0	524.8	542.6	542.6
32.5°	3148.6	3000.4	2108.0	601.9	462.5	447.7	444.7	453.6	474.4	495.1	495.1
35°	3279.1	3139.7	1933.0	483.3	438.8	418.0	406.2	397.3	406.2	421.0	432.9
37.5°	3468.8	3350.2	1713.6	444.7	421.0	391.4	367.6	346.9	332.1	329.1	338.0
40°	3738.6	3587.4	1432.0	418.0	400.2	364.7	329.1	293.5	260.9	240.1	243.1
42.5°	4147.7	3937.2	1126.6	403.2	385.4	335.0	284.6	234.2	192.7	172.0	172.0
45°	4731.8	4399.7	827.2	388.4	367.6	299.4	234.2	174.9	133.4	121.6	124.5
47.5°	5612.3	4957.1	593.0	364.7	343.9	260.9	183.8	124.5	97.8	91.9	94.9
50°	6762.7	5618.3	462.5	338.0	314.3	219.4	136.4	91.9	77.1	74.1	77.1
52.5°	7969.3	6285.3	406.2	314.3	269.8	174.9	100.8	74.1	65.2	62.3	65.2
55°	9001.1	6715.2	352.8	278.7	216.4	130.5	80.0	65.2	56.3	47.4	47.4
57.5°	10044.7	6931.7	278.7	231.3	160.1	97.8	68.2	56.3	47.4	38.5	35.6
60°	10892.6	7085.8	198.6	172.0	112.7	77.1	59.3	50.4	38.5	29.6	26.7
62.5°	11450.0	6644.1	145.3	130.5	83.0	65.2	50.4	41.5	29.6	20.8	20.8
65°	11174.3	6033.3	112.7	91.9	62.3	50.4	41.5	29.6	20.8	11.9	8.9
67.5°	10026.9	4915.6	91.9	68.2	47.4	38.5	32.6	23.7	11.9	3.0	3.0
70°	7480.2	3602.2	74.1	50.4	38.5	29.6	23.7	14.8	5.9	3.0	0.0
72.5°	4091.4	1971.6	59.3	41.5	29.6	23.7	17.8	11.9	5.9	0.0	0.0
75°	1351.9	524.8	44.5	29.6	17.8	14.8	11.9	8.9	3.0	0.0	0.0
77.5°	326.1	136.4	35.6	26.7	14.8	8.9	5.9	3.0	3.0	0.0	0.0
80°	100.8	56.3	26.7	17.8	11.9	8.9	3.0	0.0	0.0	0.0	0.0
82.5°	41.5	26.7	11.9	11.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	14.8	8.9	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	3.0	3.0	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)