

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: P483486

Luminaire Tested: **IFLD-L-SA7B-722-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483486  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-722-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

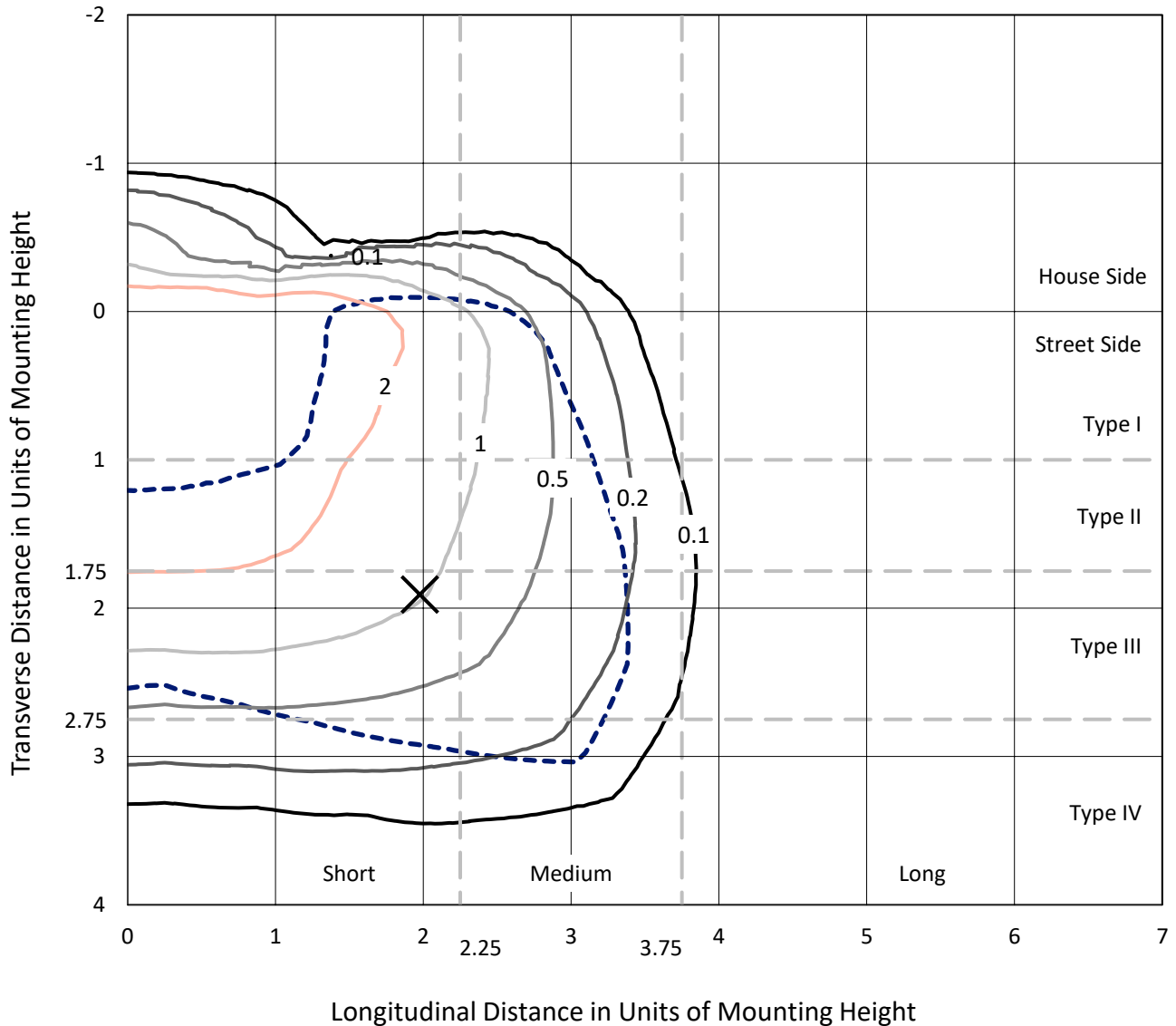
Lumens per Lamp: N/A  
Luminaire Lumens: 19354.8 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

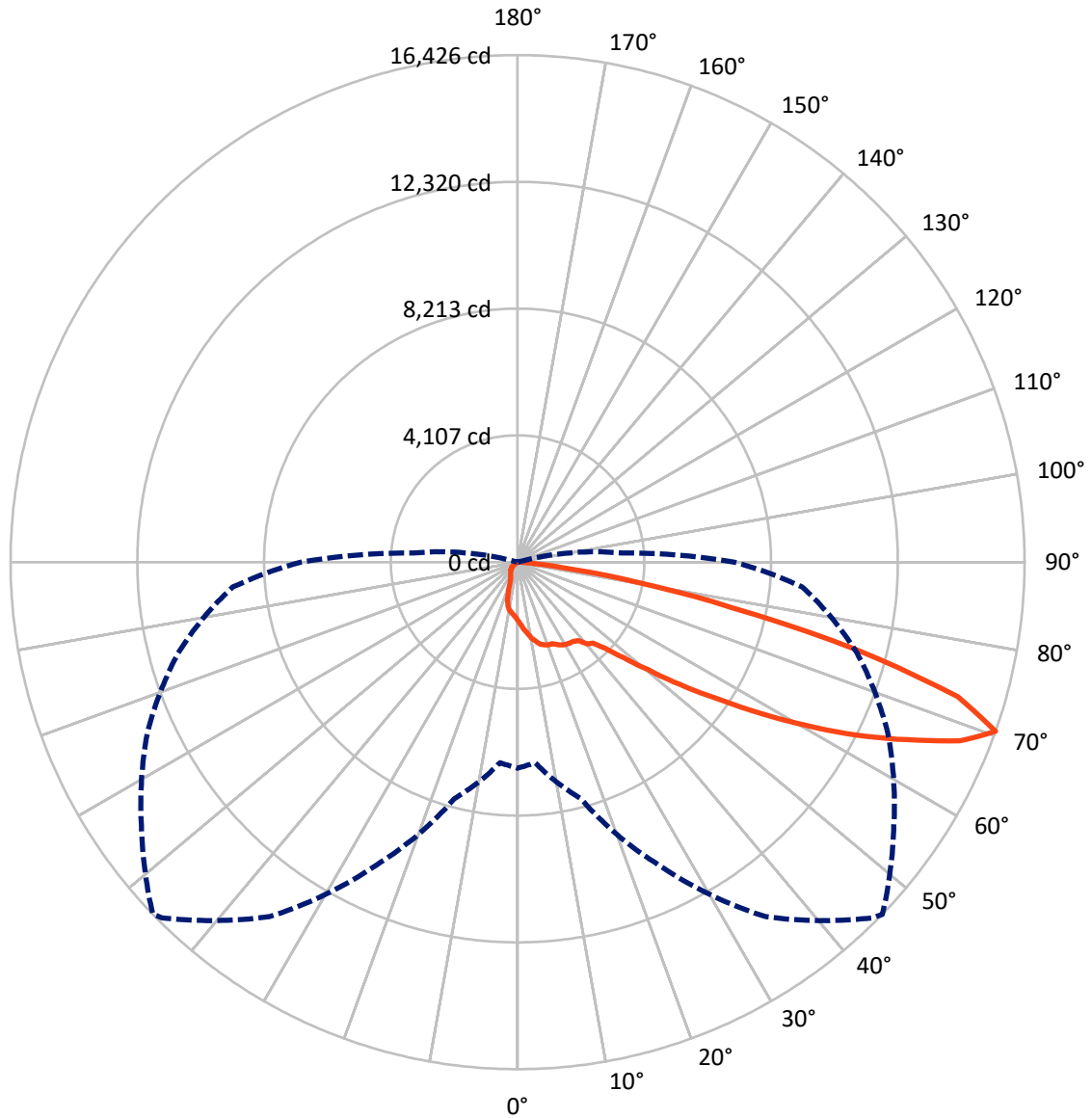
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1925.9	0.0	1925.9
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	17428.9	0.0	17428.9
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	19354.8	0.0	19354.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.5	1.0
10°-20°	572.1	3.0
20°-30°	916.4	4.7
30°-40°	1308.1	6.8
40°-50°	2258.7	11.7
50°-60°	4324.5	22.3
60°-70°	6404.0	33.1
70°-80°	3171.8	16.4
80°-90°	209.6	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°	19354.8	100.0
0°-180°	19354.8	100.0

**Coefficient of Utilization**



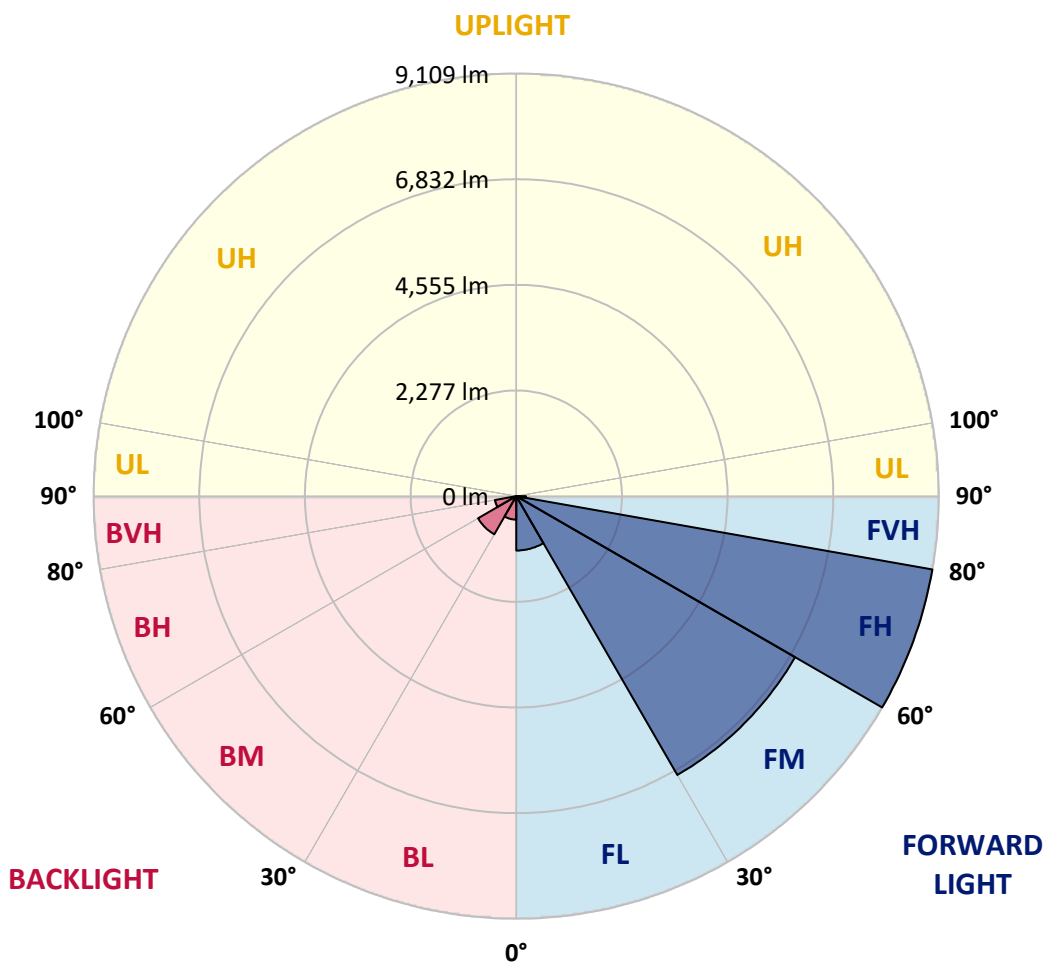
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.1	6.1			
FM (30°-60°)	6940.6	35.9			
FH (60°-80°)	9109.4	47.1			G4/12000
FVH (80°-90°)	206.9	1.1			G2/225
BL (0°-30°)	506.0	2.6	B2/1000		
BM (30°-60°)	950.8	4.9	B1/1000		
BH (60°-80°)	466.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0
2.5°	2120.1	2106.2	2083.9	2075.6	2053.3	2042.1	2025.4	2017.0	1986.4	1955.8	1936.3
5°	2379.2	2345.8	2356.9	2323.5	2251.1	2192.6	2189.8	2125.7	2056.1	2000.3	1925.1
7.5°	2641.1	2613.2	2571.5	2524.1	2443.3	2356.9	2331.9	2270.6	2173.1	2075.6	1975.3
10°	2838.9	2819.4	2783.2	2716.3	2604.9	2507.4	2510.2	2407.1	2304.0	2192.6	2056.1
12.5°	2961.5	2969.9	2916.9	2850.1	2752.5	2630.0	2627.2	2557.5	2440.5	2323.5	2161.9
15°	3084.1	3114.7	3033.9	2955.9	2830.6	2741.4	2758.1	2674.5	2560.3	2426.6	2248.3
17.5°	3103.6	3111.9	3095.2	2981.0	2889.1	2813.8	2816.6	2760.9	2674.5	2529.7	2376.4
20°	3070.2	3064.6	3045.1	2961.5	2900.2	2855.6	2858.4	2844.5	2797.1	2680.1	2471.2
22.5°	2972.6	2972.6	2947.6	2891.8	2864.0	2905.8	2872.3	2925.3	2875.1	2805.5	2632.8
25°	2894.6	2925.3	2911.3	2875.1	2886.3	2942.0	2958.7	3008.9	3000.5	2914.1	2744.2
27.5°	2978.2	2942.0	2950.4	2908.6	2950.4	3033.9	3042.3	3078.5	3075.7	3006.1	2844.5
30°	3033.9	3067.4	3003.3	2911.3	2955.9	3098.0	3092.4	3139.8	3162.1	3078.5	2939.2
32.5°	3212.2	3184.4	3131.4	3008.9	3014.4	3095.2	3120.3	3181.6	3195.5	3145.4	3031.1
35°	3577.2	3535.4	3304.2	3120.3	3092.4	3131.4	3148.2	3268.0	3293.0	3237.3	3128.7
37.5°	4140.0	4045.2	3766.6	3359.9	3234.5	3226.2	3226.2	3385.0	3479.7	3351.5	3273.5
40°	4945.1	4811.4	4510.5	3802.9	3421.2	3454.6	3488.0	3574.4	3563.3	3479.7	3463.0
42.5°	5970.4	5867.3	5541.3	4546.7	3777.8	3610.6	3582.8	3699.8	3875.3	3841.9	3830.7
45°	6825.7	6831.2	6622.3	5566.4	4393.5	3970.0	3989.5	4078.7	4374.0	4348.9	4346.1
47.5°	7449.7	7371.7	7341.1	6549.8	5290.6	4652.6	4624.7	4686.0	5070.5	5229.3	5301.7
50°	8018.1	7965.1	7892.7	7505.4	6368.8	5507.9	5480.0	5485.6	6073.4	6296.3	6474.6
52.5°	8722.9	8789.8	8550.2	8313.4	7764.5	6619.5	6588.8	6480.2	7210.1	7516.6	7728.3
55°	9592.1	9466.8	9196.5	9319.1	9099.0	7820.2	7764.5	7636.4	8505.6	8633.8	8856.6
57.5°	9784.4	9689.6	9968.2	10402.9	10614.6	9230.0	9207.7	8976.4	9594.9	9477.9	10107.5
60°	10263.6	10288.6	10675.9	11539.5	11907.3	10857.0	10748.3	10341.6	10650.8	10673.1	11344.5
62.5°	10756.7	10698.2	11564.6	12394.8	12960.4	12397.6	12361.4	11553.5	11904.5	11620.3	12509.1
65°	10394.5	10483.6	11723.4	13113.6	14325.5	13904.8	13874.2	12720.8	12913.0	12559.2	12982.7
67.5°	9107.4	8926.3	10661.9	12784.9	15027.6	15484.5	15451.0	13994.0	13481.4	12553.6	11999.2
70°	6675.2	6519.2	7934.5	10826.3	14021.8	16292.4	16426.1	14879.9	13250.1	11383.5	9257.8
72.5°	3270.7	3273.5	4446.4	7341.1	11093.8	14849.3	14916.1	13642.9	11383.5	8391.4	5243.2
75°	966.7	977.9	1646.5	3599.5	7171.1	11277.6	11352.9	10355.5	7889.9	4335.0	1788.6
77.5°	353.8	353.8	546.1	1351.2	3577.2	7118.2	7112.6	6357.6	3995.1	1468.2	417.9
80°	183.9	192.2	284.2	551.6	1549.0	3708.1	3847.4	3111.9	1518.4	618.5	122.6
82.5°	75.2	83.6	156.0	284.2	743.9	1301.1	1423.6	1220.3	660.3	431.8	55.7
85°	22.3	25.1	75.2	158.8	292.5	326.0	362.2	409.5	415.1	334.3	25.1
87.5°	2.8	2.8	30.6	52.9	64.1	69.6	80.8	80.8	211.7	234.0	13.9
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°	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0
2.5°	1914.0	1900.0	1877.8	1827.6	1816.5	1780.2	1777.5	1744.0	1755.2	1732.9	1724.5
5°	1900.0	1869.4	1808.1	1769.1	1730.1	1705.0	1688.3	1674.4	1671.6	1660.4	1654.9
7.5°	1925.1	1883.3	1788.6	1727.3	1660.4	1638.2	1601.9	1599.2	1579.7	1560.1	1560.1
10°	2008.7	1933.5	1830.4	1727.3	1640.9	1568.5	1484.9	1423.6	1401.3	1351.2	1356.8
12.5°	2075.6	2008.7	1858.2	1752.4	1621.4	1457.1	1273.2	1131.1	1064.2	1000.2	1025.2
15°	2170.3	2072.8	1911.2	1758.0	1546.2	1262.0	961.2	802.4	741.1	727.1	724.4
17.5°	2273.4	2170.3	1978.0	1744.0	1393.0	975.1	707.6	615.7	626.8	643.6	640.8
20°	2387.6	2262.2	2028.2	1696.7	1150.6	707.6	579.5	576.7	593.4	618.5	624.1
22.5°	2507.4	2398.7	2089.5	1554.6	858.1	568.3	557.2	557.2	568.3	599.0	593.4
25°	2641.1	2496.2	2120.1	1334.5	615.7	523.8	529.3	540.5	546.1	571.1	573.9
27.5°	2744.2	2604.9	2128.5	1069.8	501.5	484.8	498.7	512.6	521.0	540.5	548.8
30°	2838.9	2741.4	2083.9	796.8	459.7	451.3	456.9	476.4	493.1	509.8	509.8
32.5°	2958.7	2819.4	1980.8	565.6	434.6	420.7	417.9	426.3	445.8	465.3	465.3
35°	3081.3	2950.4	1816.5	454.1	412.3	392.8	381.7	373.3	381.7	395.6	406.8
37.5°	3259.6	3148.2	1610.3	417.9	395.6	367.7	345.5	326.0	312.0	309.2	317.6
40°	3513.1	3371.0	1345.6	392.8	376.1	342.7	309.2	275.8	245.2	225.7	228.5
42.5°	3897.6	3699.8	1058.7	378.9	362.2	314.8	267.5	220.1	181.1	161.6	161.6
45°	4446.4	4134.4	777.3	365.0	345.5	281.4	220.1	164.4	125.4	114.2	117.0
47.5°	5273.9	4658.2	557.2	342.7	323.2	245.2	172.7	117.0	91.9	86.4	89.2
50°	6354.8	5279.4	434.6	317.6	295.3	206.2	128.2	86.4	72.4	69.6	72.4
52.5°	7488.7	5906.3	381.7	295.3	253.5	164.4	94.7	69.6	61.3	58.5	61.3
55°	8458.2	6310.2	331.5	261.9	203.4	122.6	75.2	61.3	52.9	44.6	44.6
57.5°	9438.9	6513.6	261.9	217.3	150.4	91.9	64.1	52.9	44.6	36.2	33.4
60°	10235.7	6658.5	186.7	161.6	105.9	72.4	55.7	47.4	36.2	27.9	25.1
62.5°	10759.5	6243.4	136.5	122.6	78.0	61.3	47.4	39.0	27.9	19.5	19.5
65°	10500.4	5669.5	105.9	86.4	58.5	47.4	39.0	27.9	19.5	11.1	8.4
67.5°	9422.2	4619.2	86.4	64.1	44.6	36.2	30.6	22.3	11.1	2.8	2.8
70°	7029.0	3385.0	69.6	47.4	36.2	27.9	22.3	13.9	5.6	2.8	0.0
72.5°	3844.7	1852.7	55.7	39.0	27.9	22.3	16.7	11.1	5.6	0.0	0.0
75°	1270.4	493.1	41.8	27.9	16.7	13.9	11.1	8.4	2.8	0.0	0.0
77.5°	306.5	128.2	33.4	25.1	13.9	8.4	5.6	2.8	2.8	0.0	0.0
80°	94.7	52.9	25.1	16.7	11.1	8.4	2.8	0.0	0.0	0.0	0.0
82.5°	39.0	25.1	11.1	11.1	8.4	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.5	13.9	8.4	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.6	2.8	2.8	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)