

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: P483409

Luminaire Tested: **IFLD-L-SA7C-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483409  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

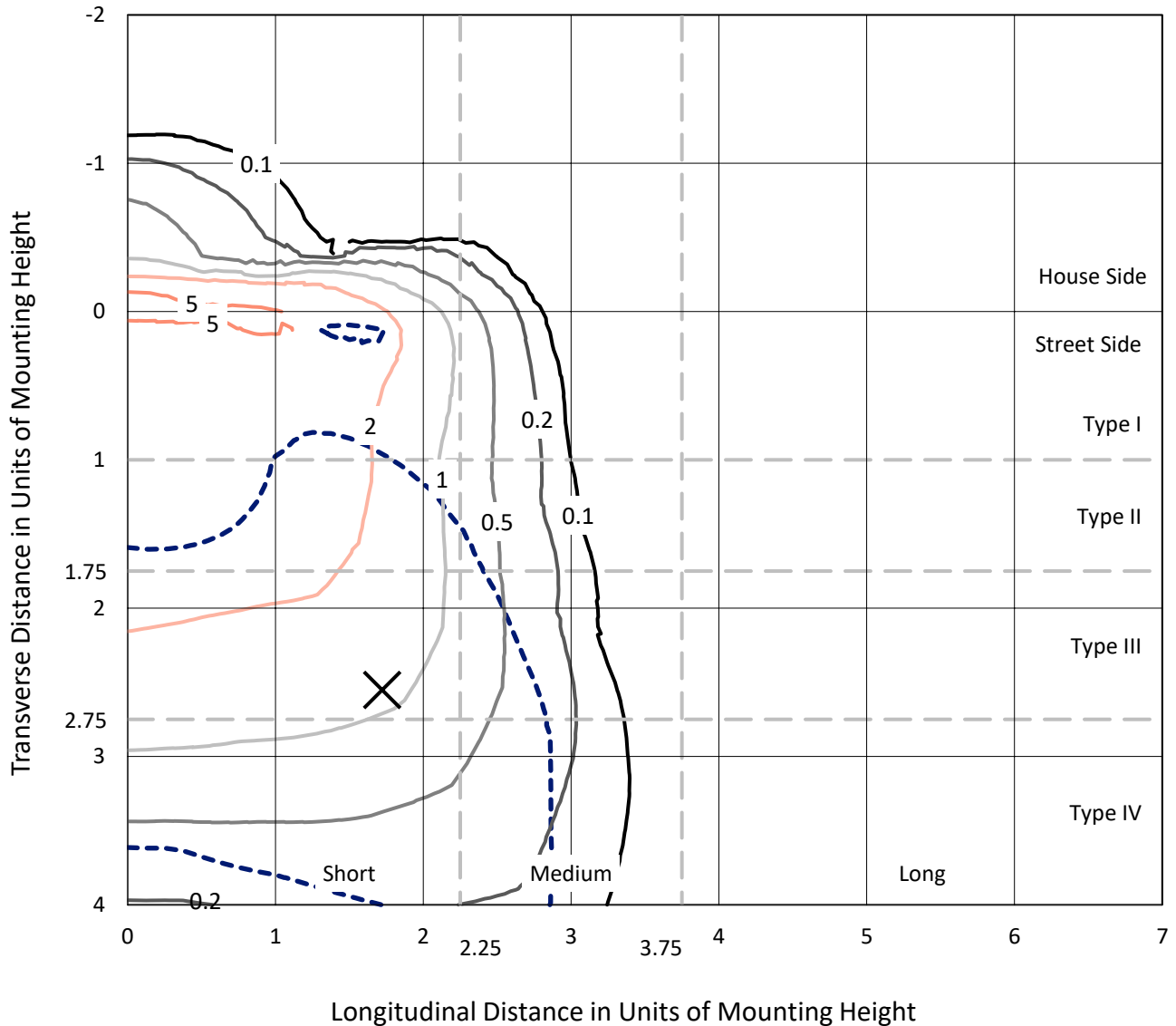
Lumens per Lamp: N/A  
Luminaire Lumens: 25471 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
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

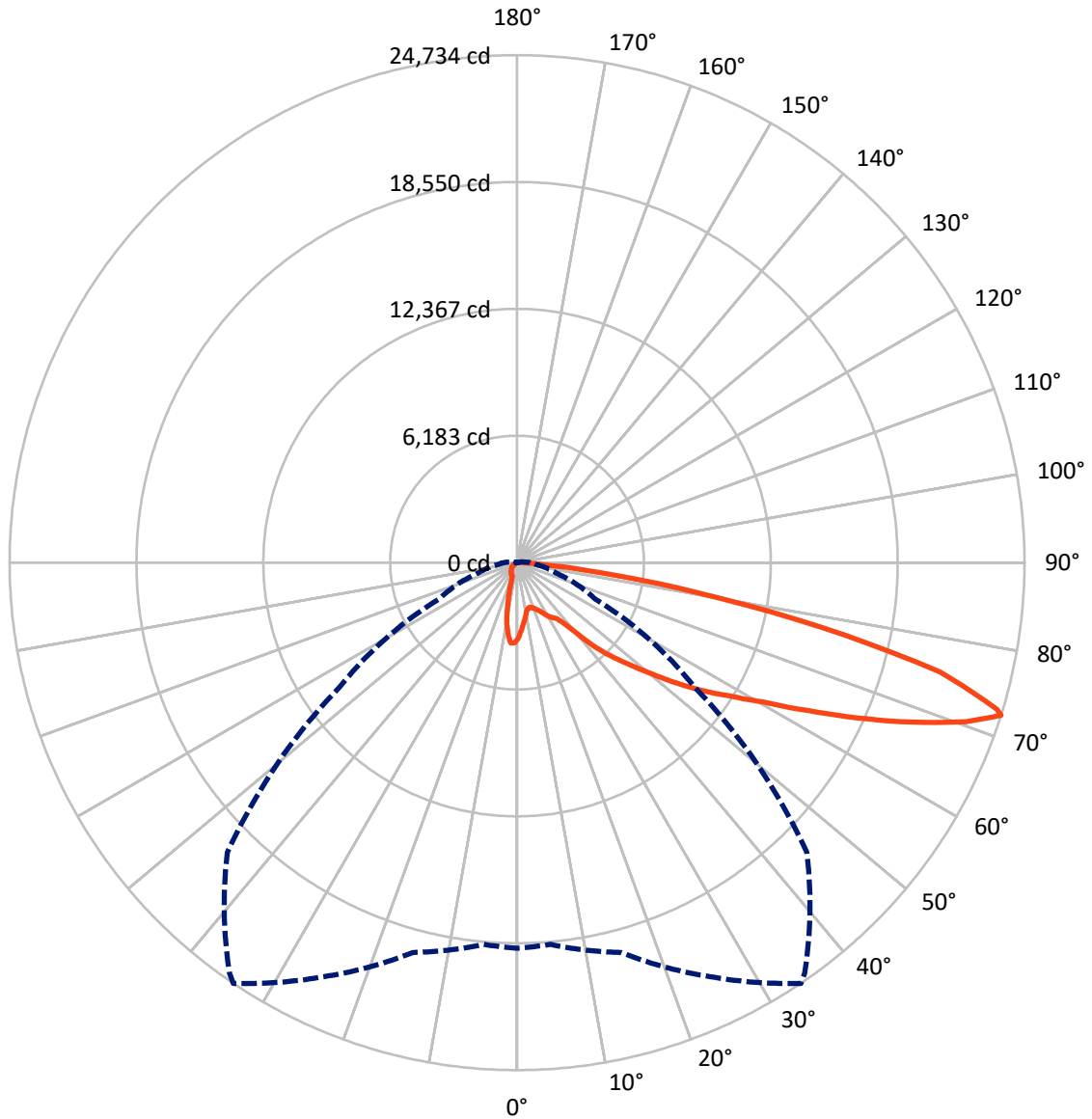
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### 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	2607.6	0.0	2607.6
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	22863.3	0.0	22863.3
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	25471.0	0.0	25471.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.5	1.3
10°-20°	732.4	2.9
20°-30°	1105.4	4.3
30°-40°	1793.9	7.0
40°-50°	3373.3	13.2
50°-60°	5515.5	21.7
60°-70°	7332.0	28.8
70°-80°	4910.2	19.3
80°-90°	384.8	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°	25471.0	100.0
0°-180°	25471.0	100.0



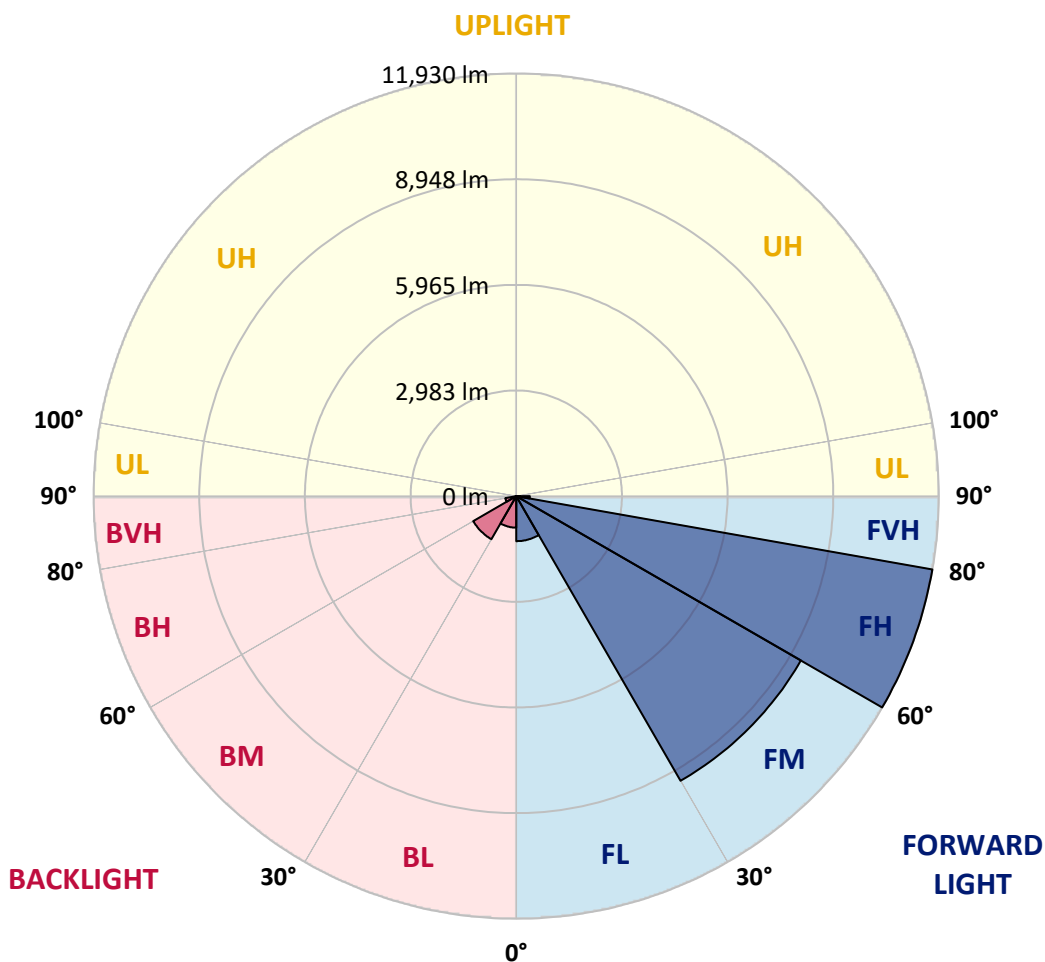
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.6	5.0			
FM (30°-60°)	9279.0	36.4			
FH (60°-80°)	11930.4	46.8			G4/12000
FVH (80°-90°)	382.4	1.5			G3/500
BL (0°-30°)	889.7	3.5	B2/1000		
BM (30°-60°)	1403.7	5.5	B2/2500		
BH (60°-80°)	311.8	1.2	B1/500		G1/500
BVH (80°-90°)	2.4	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°	34°	35°	45°	55°	65°	75°	85°
0°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3295.6	3288.2	3310.3	3347.2	3384.0	3369.2	3439.2	3512.9	3564.4	3634.4	3719.1
5°	2879.5	2897.9	2920.0	2993.7	3041.5	3052.6	3181.5	3277.2	3435.5	3597.5	3748.5
7.5°	2500.2	2522.3	2566.5	2647.5	2746.9	2772.7	2901.6	3093.1	3299.3	3512.9	3759.6
10°	2224.1	2246.2	2294.0	2345.6	2478.1	2478.1	2654.9	2920.0	3188.8	3439.2	3763.2
12.5°	2165.2	2176.2	2172.5	2213.0	2297.7	2316.1	2489.2	2780.1	3093.1	3413.4	3822.2
15°	2235.1	2242.5	2205.7	2183.6	2257.2	2275.6	2437.6	2695.4	3030.5	3428.2	3917.9
17.5°	2375.0	2349.3	2275.6	2242.5	2305.1	2316.1	2467.1	2691.7	3023.1	3468.7	4028.4
20°	2456.1	2485.5	2356.6	2294.0	2382.4	2397.1	2559.2	2750.6	3059.9	3538.6	4183.0
22.5°	2599.7	2614.4	2441.3	2400.8	2485.5	2485.5	2669.6	2868.5	3148.3	3652.8	4367.1
25°	2802.2	2783.8	2581.2	2540.7	2621.8	2654.9	2839.0	3056.3	3284.6	3759.6	4536.5
27.5°	2960.5	2971.6	2805.9	2699.1	2835.3	2857.4	3056.3	3258.8	3387.7	3847.9	4742.7
30°	3196.2	3174.1	2997.3	2875.8	3045.2	3048.9	3240.4	3450.3	3586.5	4006.3	5052.0
32.5°	3476.0	3431.8	3229.3	3056.3	3192.5	3225.6	3420.8	3726.4	3895.8	4304.5	5530.7
35°	4068.9	3962.1	3630.7	3361.9	3372.9	3387.7	3689.6	4127.8	4322.9	4683.8	6171.4
37.5°	4934.2	4890.0	4514.4	4002.6	3807.4	3763.2	4102.0	4658.0	4901.1	5184.6	7003.6
40°	5792.2	5729.6	5379.7	4993.1	4639.6	4551.2	4720.6	5361.3	5582.3	5880.5	7857.9
42.5°	6745.9	6635.4	6223.0	5910.0	5689.1	5593.3	5527.0	6245.1	6495.5	6698.0	8693.8
45°	7710.6	7530.2	6933.7	6694.3	6576.5	6524.9	6517.6	7357.1	7508.1	7548.6	9621.7
47.5°	8557.5	8362.4	7821.1	7552.3	7463.9	7449.2	7861.6	8638.5	8520.7	8413.9	10656.4
50°	9209.3	9084.1	8693.8	8598.0	8531.7	8506.0	9470.7	9956.8	9411.8	9224.0	11565.9
52.5°	10218.2	9938.4	9496.5	9529.6	9761.6	9765.3	11101.9	11208.7	10151.9	9780.0	12423.9
55°	11024.6	10840.5	10479.6	10431.8	11043.0	11109.3	12563.8	12158.7	10564.3	10310.3	12740.5
57.5°	11974.6	11889.9	11628.5	11635.9	12276.6	12416.5	13863.6	12961.5	10906.8	10652.7	12788.4
60°	13348.1	13105.1	12968.8	13031.4	13786.3	13922.5	15122.9	13539.6	11072.5	10877.3	12670.6
62.5°	14865.2	14581.7	14434.4	14754.7	15855.7	15877.8	16080.3	14051.4	10969.4	10936.2	11912.0
65°	16691.6	16411.7	16293.9	16938.3	18245.5	18164.5	17424.3	14268.7	10641.7	10343.4	9919.9
67.5°	18510.6	18341.2	18098.2	19125.5	20753.1	20753.1	18819.9	14187.7	9783.7	8303.4	6488.1
70°	19372.2	19490.1	19876.7	21489.5	23216.5	23039.8	20197.1	13256.1	7283.5	4459.2	2551.8
72°	18797.8	18676.3	19674.2	22262.8	24733.6	24442.7	19965.1	10538.6	4208.8	1955.3	887.4
72.5°	17811.0	17925.1	19298.6	22156.0	24450.1	24689.4	19398.0	9721.1	3461.3	1557.6	670.2
75°	10921.5	11116.7	14404.9	18812.5	21305.4	21036.6	15005.1	4632.3	1329.3	662.8	239.3
77.5°	3987.9	4149.9	6988.9	11838.4	15152.4	14983.0	8682.7	1646.0	721.7	493.4	121.5
80°	1038.4	1123.1	2375.0	5460.8	8911.0	8922.1	3634.4	659.1	489.7	405.0	73.6
82.5°	206.2	228.3	729.1	2124.7	4164.6	4109.4	1148.9	353.5	368.2	331.4	51.6
85°	25.8	33.1	154.7	721.7	1347.7	1207.8	283.5	176.7	272.5	257.8	33.1
87.5°	3.7	3.7	36.8	165.7	283.5	276.2	58.9	55.2	121.5	158.3	18.4
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°	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3766.9	3781.7	3833.2	3877.4	3928.9	3943.7	3921.6	3958.4	3906.9	3936.3	3943.7
5°	3774.3	3859.0	3954.7	4017.3	4002.6	3965.8	3936.3	3836.9	3766.9	3741.2	3796.4
7.5°	3825.8	3921.6	4024.7	4024.7	3943.7	3752.2	3568.1	3391.3	3244.1	3170.4	3233.0
10°	3892.1	3991.5	4098.3	3958.4	3656.5	3306.6	3045.2	2713.8	2489.2	2371.4	2382.4
12.5°	3980.5	4120.4	4157.2	3833.2	3332.4	2813.2	2338.2	1877.9	1664.4	1495.0	1498.7
15°	4094.6	4230.9	4120.4	3560.7	2920.0	2154.1	1583.4	1145.2	975.8	887.4	887.4
17.5°	4245.6	4348.7	4109.4	3310.3	2364.0	1472.9	972.1	773.3	736.4	721.7	721.7
20°	4422.4	4499.7	4002.6	2920.0	1756.4	946.3	714.4	692.3	695.9	688.6	688.6
22.5°	4621.2	4647.0	3881.1	2467.1	1189.4	699.6	666.5	670.2	673.8	666.5	670.2
25°	4831.1	4761.1	3704.3	1936.9	791.7	637.0	644.4	651.8	655.4	659.1	659.1
27.5°	5066.8	4926.8	3457.6	1417.7	618.6	600.2	622.3	644.4	648.1	648.1	644.4
30°	5412.9	5180.9	3218.3	961.1	545.0	559.7	596.5	622.3	640.7	640.7	637.0
32.5°	5851.1	5446.0	2883.2	655.4	504.5	511.8	541.3	592.8	633.3	637.0	626.0
35°	6458.6	5766.4	2533.4	522.9	475.0	478.7	497.1	537.6	607.6	629.7	626.0
37.5°	7099.4	6130.9	2098.9	471.3	452.9	449.2	460.3	493.4	556.0	611.3	614.9
40°	7780.6	6513.9	1642.3	445.6	434.5	427.1	430.8	445.6	493.4	563.4	578.1
42.5°	8421.3	6860.0	1233.5	419.8	416.1	408.7	408.7	412.4	438.2	486.1	493.4
45°	9113.5	7143.5	939.0	401.4	390.3	394.0	379.3	371.9	390.3	394.0	390.3
47.5°	9761.6	7427.1	751.2	379.3	368.2	368.2	349.8	335.1	335.1	301.9	298.3
50°	10369.2	7581.7	600.2	349.8	346.1	342.4	316.7	290.9	268.8	228.3	220.9
52.5°	10873.6	7574.4	464.0	313.0	324.0	313.0	272.5	235.7	202.5	165.7	158.3
55°	11024.6	7220.9	349.8	257.8	276.2	261.4	217.3	184.1	147.3	117.8	114.1
57.5°	10895.7	6683.3	265.1	198.8	213.6	198.8	165.7	136.2	103.1	81.0	73.6
60°	10464.9	6053.6	206.2	154.7	162.0	151.0	125.2	103.1	73.6	51.6	44.2
62.5°	9647.5	5265.6	158.3	121.5	117.8	117.8	95.7	77.3	51.6	29.5	25.8
65°	7916.8	4105.7	121.5	84.7	84.7	84.7	73.6	55.2	33.1	14.7	7.4
67.5°	4971.0	2389.8	99.4	66.3	62.6	62.6	51.6	36.8	18.4	3.7	0.0
70°	1870.6	876.4	77.3	51.6	47.9	47.9	36.8	22.1	11.0	0.0	0.0
72°	644.4	335.1	62.6	36.8	36.8	33.1	25.8	18.4	7.4	0.0	0.0
72.5°	530.2	268.8	58.9	36.8	33.1	33.1	25.8	18.4	7.4	0.0	0.0
75°	191.5	110.5	40.5	25.8	22.1	22.1	18.4	11.0	3.7	0.0	0.0
77.5°	95.7	70.0	33.1	22.1	18.4	11.0	11.0	7.4	3.7	0.0	0.0
80°	58.9	44.2	18.4	14.7	11.0	7.4	3.7	3.7	0.0	0.0	0.0
82.5°	40.5	25.8	11.0	11.0	7.4	3.7	0.0	0.0	0.0	0.0	0.0
85°	25.8	11.0	7.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	7.4	3.7	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)