

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: P483137

Luminaire Tested: **IFLD-L-SA7D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483137  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

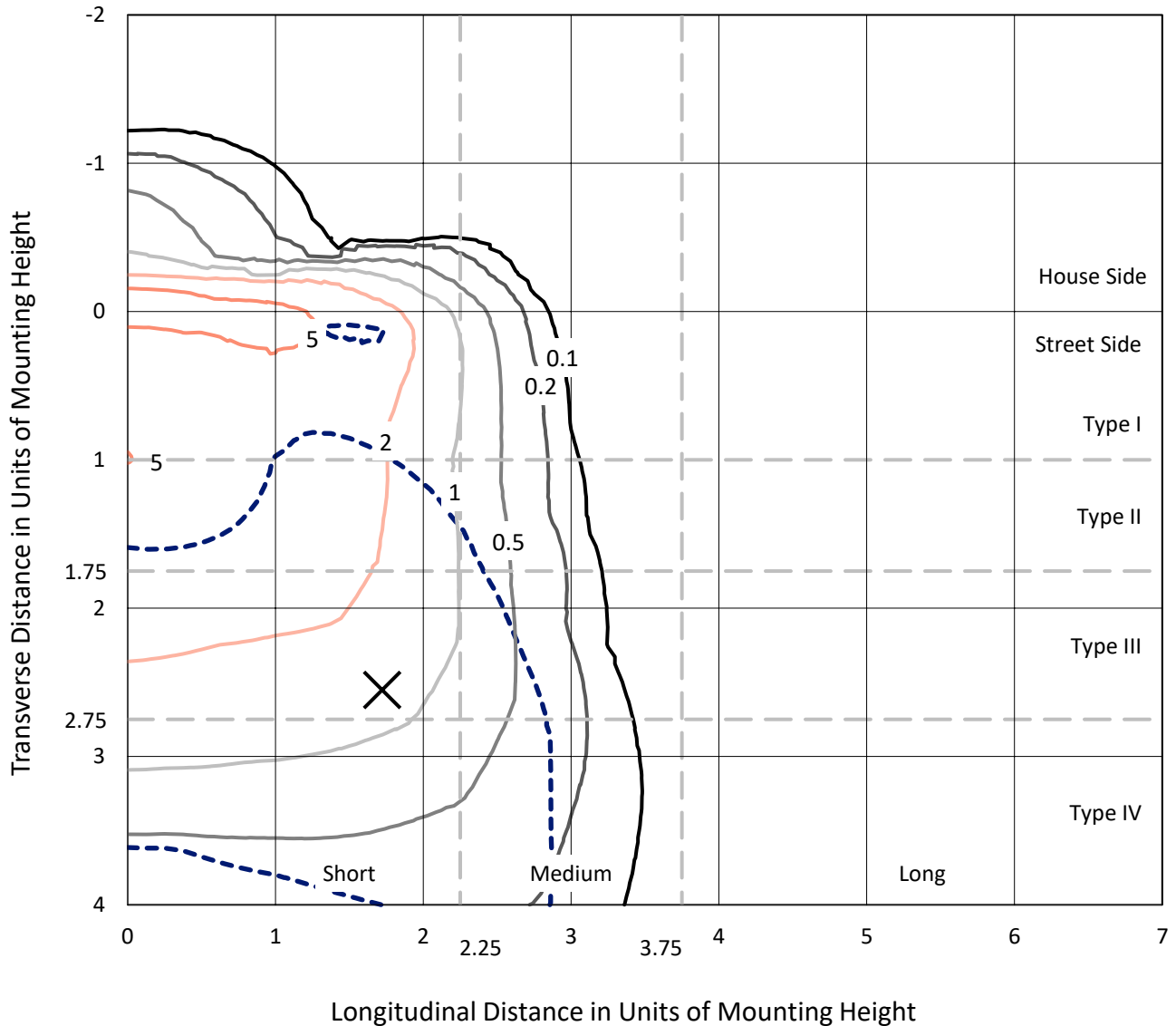
Lumens per Lamp: N/A  
Luminaire Lumens: 29497.6 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

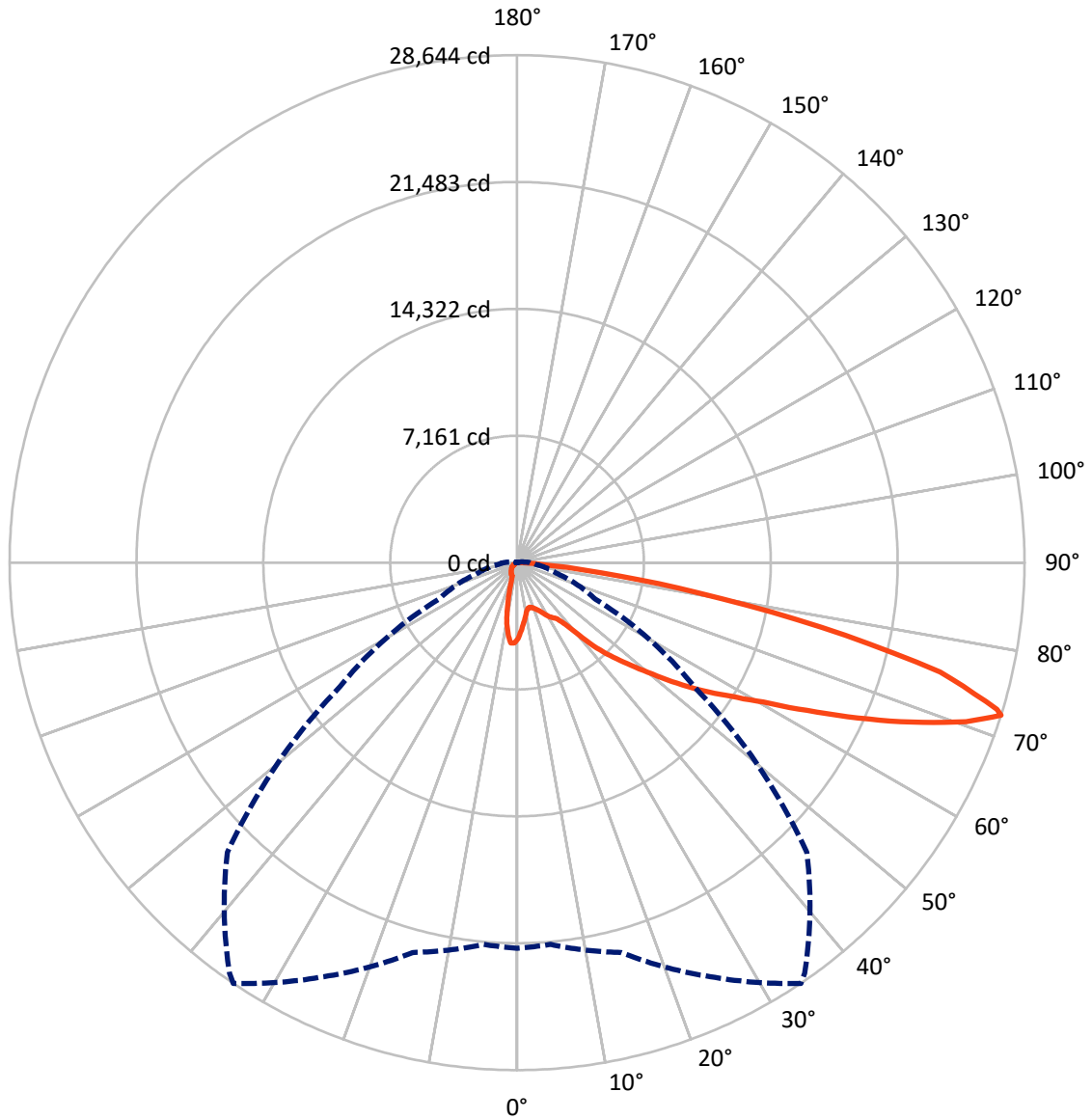
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3019.9	0.0	3019.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	26477.7	0.0	26477.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	29497.6	0.0	29497.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.6	1.3
10°-20°	848.1	2.9
20°-30°	1280.2	4.3
30°-40°	2077.5	7.0
40°-50°	3906.6	13.2
50°-60°	6387.4	21.7
60°-70°	8491.1	28.8
70°-80°	5686.4	19.3
80°-90°	445.6	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°	29497.6	100.0
0°-180°	29497.6	100.0

**Coefficient of Utilization**



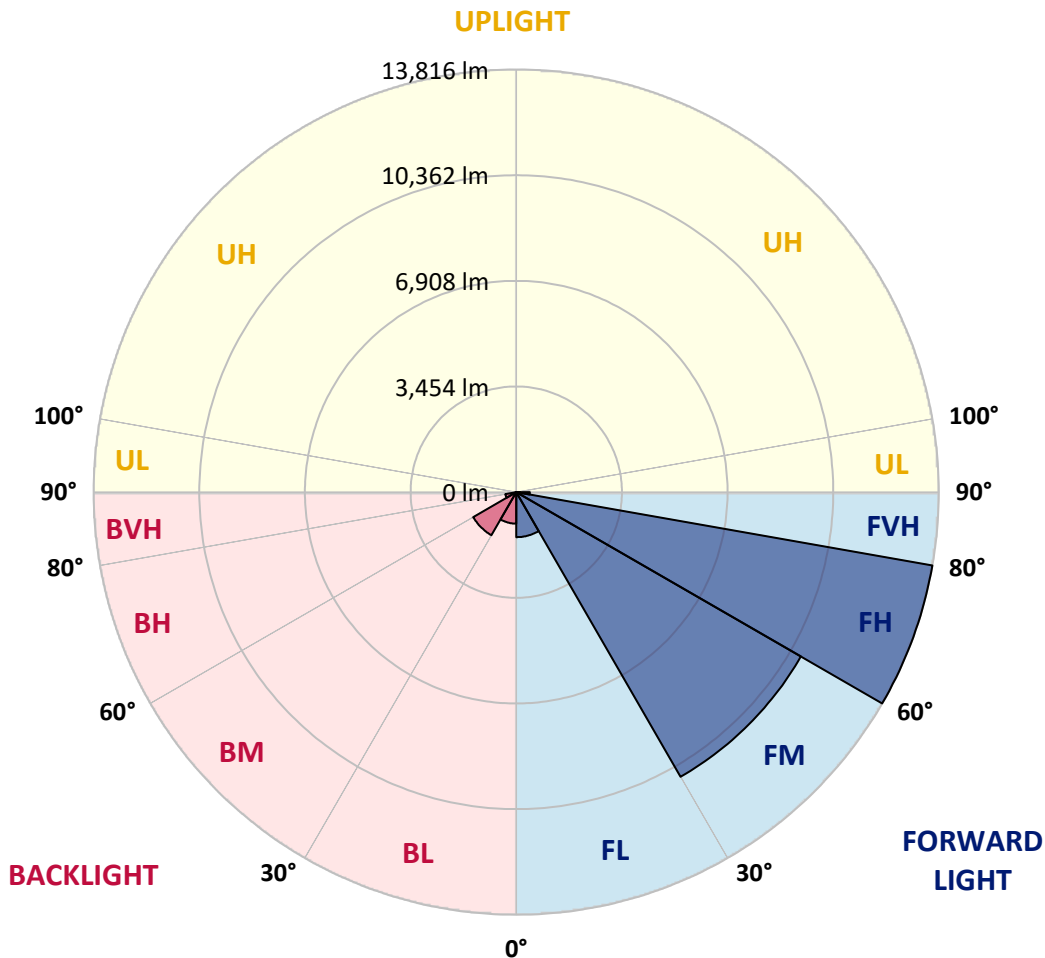
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1472.6	5.0			
FM (30°-60°)	10745.9	36.4			
FH (60°-80°)	13816.4	46.8			G5
FVH (80°-90°)	442.8	1.5			G3/500
BL (0°-30°)	1030.4	3.5	B3/2500		
BM (30°-60°)	1625.6	5.5	B2/2500		
BH (60°-80°)	361.1	1.2	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: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5
2.5°	3816.6	3808.1	3833.6	3876.3	3918.9	3901.9	3982.9	4068.2	4127.9	4208.9	4307.0
5°	3334.7	3356.0	3381.6	3466.9	3522.4	3535.1	3684.4	3795.3	3978.6	4166.3	4341.1
7.5°	2895.5	2921.1	2972.3	3066.1	3181.2	3211.1	3360.3	3582.1	3820.9	4068.2	4353.9
10°	2575.7	2601.3	2656.7	2716.4	2869.9	2869.9	3074.6	3381.6	3692.9	3982.9	4358.2
12.5°	2507.4	2520.2	2516.0	2562.9	2661.0	2682.3	2882.7	3219.6	3582.1	3953.1	4426.4
15°	2588.5	2597.0	2554.3	2528.8	2614.0	2635.4	2823.0	3121.5	3509.6	3970.1	4537.3
17.5°	2750.5	2720.7	2635.4	2597.0	2669.5	2682.3	2857.1	3117.2	3501.0	4017.0	4665.2
20°	2844.3	2878.4	2729.2	2656.7	2759.0	2776.1	2963.7	3185.5	3543.7	4098.0	4844.3
22.5°	3010.6	3027.7	2827.3	2780.4	2878.4	2878.4	3091.7	3321.9	3646.0	4230.2	5057.5
25°	3245.2	3223.8	2989.3	2942.4	3036.2	3074.6	3287.8	3539.4	3803.8	4353.9	5253.7
27.5°	3428.5	3441.3	3249.4	3125.8	3283.5	3309.1	3539.4	3773.9	3923.2	4456.2	5492.5
30°	3701.5	3675.9	3471.2	3330.5	3526.6	3530.9	3752.6	3995.7	4153.5	4639.6	5850.7
32.5°	4025.5	3974.4	3739.8	3539.4	3697.2	3735.6	3961.6	4315.5	4511.7	4985.0	6405.1
35°	4712.1	4588.4	4204.6	3893.4	3906.1	3923.2	4272.9	4780.3	5006.3	5424.3	7147.0
37.5°	5714.2	5663.1	5228.1	4635.3	4409.3	4358.2	4750.5	5394.4	5675.8	6004.2	8110.8
40°	6707.8	6635.3	6230.2	5782.5	5373.1	5270.7	5466.9	6208.9	6464.8	6810.2	9100.1
42.5°	7812.3	7684.4	7206.7	6844.3	6588.4	6477.5	6400.8	7232.3	7522.3	7756.9	10068.1
45°	8929.5	8720.6	8029.8	7752.6	7616.1	7556.4	7547.9	8520.2	8695.0	8741.9	11142.7
47.5°	9910.3	9684.3	9057.5	8746.2	8643.8	8626.8	9104.4	10004.2	9867.7	9744.0	12341.0
50°	10665.1	10520.1	10068.1	9957.3	9880.5	9850.6	10967.9	11530.8	10899.7	10682.2	13394.3
52.5°	11833.6	11509.5	10997.8	11036.1	11304.8	11309.1	12857.0	12980.7	11756.8	11326.1	14387.9
55°	12767.5	12554.2	12136.3	12080.9	12788.8	12865.5	14550.0	14080.9	12234.4	11940.2	14754.6
57.5°	13867.7	13769.6	13466.8	13475.3	14217.3	14379.4	16055.3	15010.5	12631.0	12336.8	14810.1
60°	15458.3	15176.8	15019.0	15091.5	15965.7	16123.5	17513.7	15680.0	12822.9	12596.9	14673.6
62.5°	17215.2	16886.8	16716.2	17087.2	18362.3	18387.9	18622.4	16272.8	12703.5	12665.1	13795.2
65°	19330.3	19006.2	18869.7	19616.0	21129.8	21036.0	20178.9	16524.4	12324.0	11978.6	11488.2
67.5°	21436.9	21240.7	20959.3	22149.0	24033.9	24033.9	21795.1	16430.5	11330.4	9616.1	7513.8
70°	22434.7	22571.2	23019.0	24886.7	26886.7	26682.0	23390.0	15351.7	8434.9	5164.1	2955.2
72°	21769.5	21628.8	22784.4	25782.3	28643.6	28306.7	23121.3	12204.6	4874.2	2264.4	1027.7
72.5°	20626.7	20758.8	22349.5	25658.6	28315.3	28592.5	22464.6	11257.9	4008.5	1803.8	776.1
75°	12648.1	12874.1	16682.1	21786.6	24673.5	24362.2	17377.2	5364.6	1539.4	767.6	277.2
77.5°	4618.3	4805.9	8093.7	13709.9	17547.8	17351.6	10055.3	1906.2	835.8	571.4	140.7
80°	1202.5	1300.6	2750.5	6324.0	10319.7	10332.5	4208.9	763.3	567.2	469.1	85.3
82.5°	238.8	264.4	844.3	2460.5	4823.0	4759.0	1330.5	409.4	426.4	383.8	59.7
85°	29.9	38.4	179.1	835.8	1560.8	1398.7	328.4	204.7	315.6	298.5	38.4
87.5°	4.3	4.3	42.6	191.9	328.4	319.8	68.2	64.0	140.7	183.4	21.3
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°	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5
2.5°	4362.4	4379.5	4439.2	4490.4	4550.1	4567.1	4541.5	4584.2	4524.5	4558.6	4567.1
5°	4371.0	4469.0	4579.9	4652.4	4635.3	4592.7	4558.6	4443.5	4362.4	4332.6	4396.5
7.5°	4430.7	4541.5	4660.9	4660.9	4567.1	4345.4	4132.2	3927.5	3756.9	3671.6	3744.1
10°	4507.4	4622.6	4746.2	4584.2	4234.5	3829.4	3526.6	3142.8	2882.7	2746.2	2759.0
12.5°	4609.8	4771.8	4814.4	4439.2	3859.2	3258.0	2707.9	2174.8	1927.5	1731.3	1735.6
15°	4742.0	4899.7	4771.8	4123.6	3381.6	2494.6	1833.7	1326.2	1130.1	1027.7	1027.7
17.5°	4916.8	5036.2	4759.0	3833.6	2737.7	1705.7	1125.8	895.5	852.9	835.8	835.8
20°	5121.5	5211.0	4635.3	3381.6	2034.1	1095.9	827.3	801.7	806.0	797.4	797.4
22.5°	5351.8	5381.6	4494.6	2857.1	1377.4	810.2	771.8	776.1	780.4	771.8	776.1
25°	5594.8	5513.8	4289.9	2243.0	916.8	737.7	746.3	754.8	759.1	763.3	763.3
27.5°	5867.7	5705.7	4004.2	1641.8	716.4	695.1	720.7	746.3	750.5	750.5	746.3
30°	6268.6	5999.9	3727.0	1113.0	631.1	648.2	690.8	720.7	742.0	742.0	737.7
32.5°	6776.1	6307.0	3339.0	759.1	584.2	592.7	626.9	686.6	733.5	737.7	724.9
35°	7479.7	6678.0	2933.9	605.5	550.1	554.4	575.7	622.6	703.6	729.2	724.9
37.5°	8221.7	7100.1	2430.7	545.8	524.5	520.3	533.0	571.4	643.9	707.9	712.1
40°	9010.6	7543.6	1901.9	516.0	503.2	494.7	498.9	516.0	571.4	652.4	669.5
42.5°	9752.6	7944.5	1428.6	486.1	481.9	473.3	473.3	477.6	507.5	562.9	571.4
45°	10554.3	8272.8	1087.4	464.8	452.0	456.3	439.2	430.7	452.0	456.3	452.0
47.5°	11304.8	8601.2	869.9	439.2	426.4	426.4	405.1	388.1	388.1	349.7	345.4
50°	12008.4	8780.3	695.1	405.1	400.8	396.6	366.7	336.9	311.3	264.4	255.9
52.5°	12592.6	8771.8	537.3	362.5	375.3	362.5	315.6	272.9	234.5	191.9	183.4
55°	12767.5	8362.4	405.1	298.5	319.8	302.8	251.6	213.2	170.6	136.5	132.2
57.5°	12618.2	7739.8	307.0	230.3	247.3	230.3	191.9	157.8	119.4	93.8	85.3
60°	12119.3	7010.6	238.8	179.1	187.6	174.8	145.0	119.4	85.3	59.7	51.2
62.5°	11172.6	6098.0	183.4	140.7	136.5	136.5	110.9	89.6	59.7	34.1	29.9
65°	9168.3	4754.7	140.7	98.1	98.1	98.1	85.3	64.0	38.4	17.1	8.5
67.5°	5756.9	2767.6	115.1	76.8	72.5	72.5	59.7	42.6	21.3	4.3	0.0
70°	2166.3	1014.9	89.6	59.7	55.4	55.4	42.6	25.6	12.8	0.0	0.0
72°	746.3	388.1	72.5	42.6	42.6	38.4	29.9	21.3	8.5	0.0	0.0
72.5°	614.1	311.3	68.2	42.6	38.4	38.4	29.9	21.3	8.5	0.0	0.0
75°	221.7	127.9	46.9	29.9	25.6	25.6	21.3	12.8	4.3	0.0	0.0
77.5°	110.9	81.0	38.4	25.6	21.3	12.8	12.8	8.5	4.3	0.0	0.0
80°	68.2	51.2	21.3	17.1	12.8	8.5	4.3	4.3	0.0	0.0	0.0
82.5°	46.9	29.9	12.8	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0
85°	29.9	12.8	8.5	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	8.5	4.3	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)