

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: P483608

Luminaire Tested: **IFLD-L-SA8B-735-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483608  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

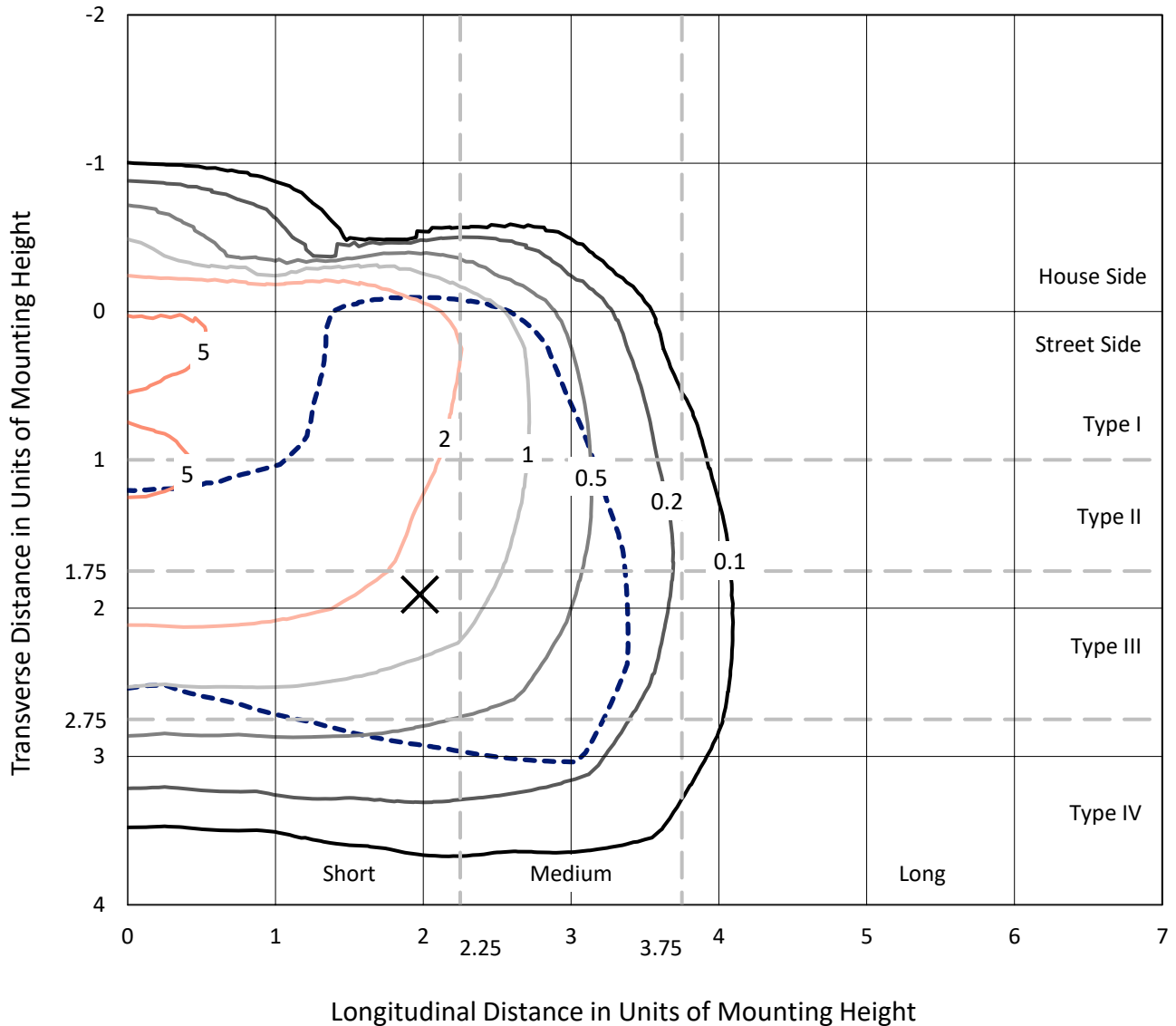
Lumens per Lamp: N/A  
Luminaire Lumens: 29617.6 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 320  
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

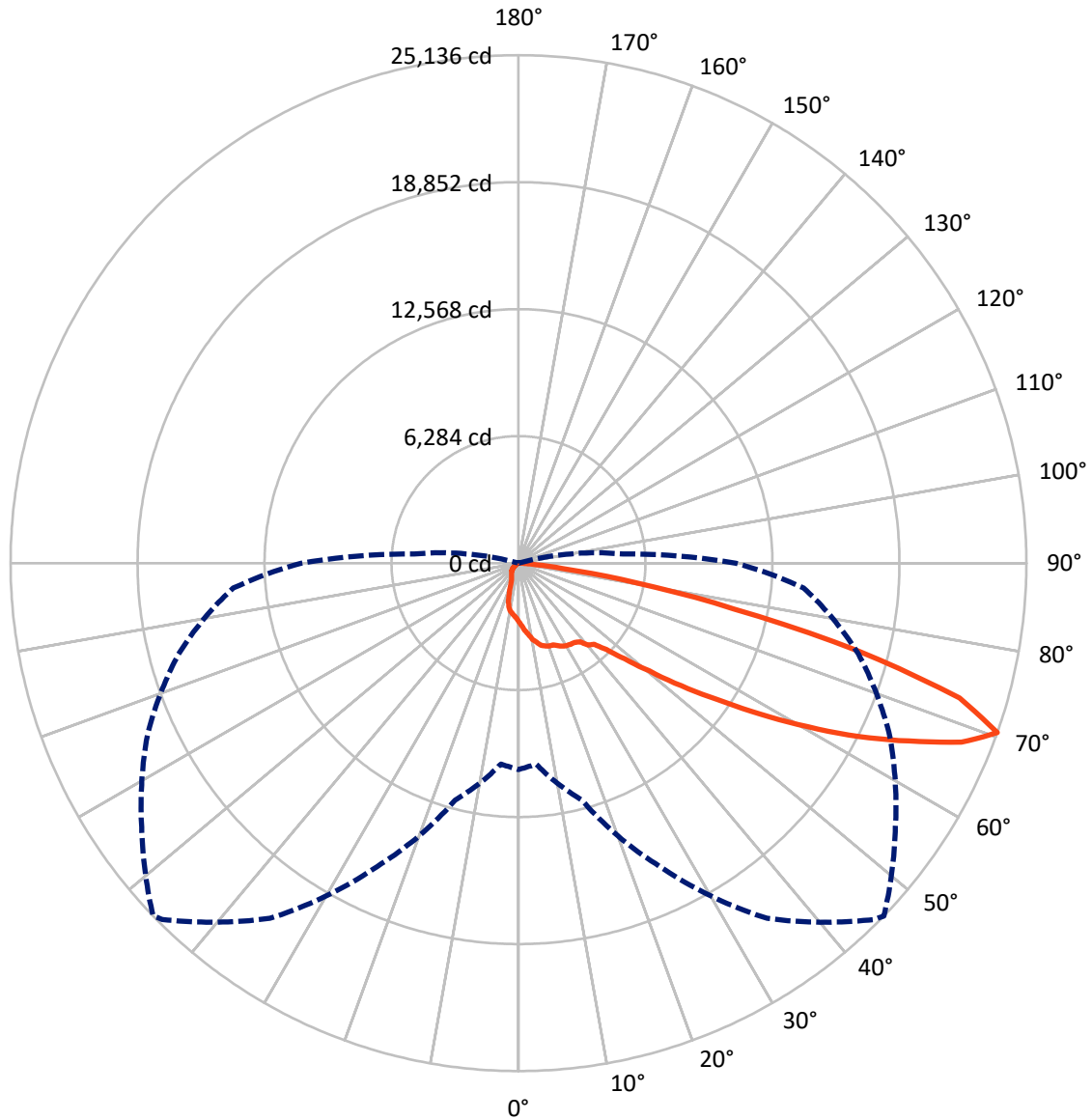
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2947.0	0.0	2947.0
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	26670.5	0.0	26670.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	29617.6	0.0	29617.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.9	1.0
10°-20°	875.5	3.0
20°-30°	1402.4	4.7
30°-40°	2001.7	6.8
40°-50°	3456.4	11.7
50°-60°	6617.6	22.3
60°-70°	9799.6	33.1
70°-80°	4853.7	16.4
80°-90°	320.7	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°	29617.6	100.0
0°-180°	29617.6	100.0

**Coefficient of Utilization**

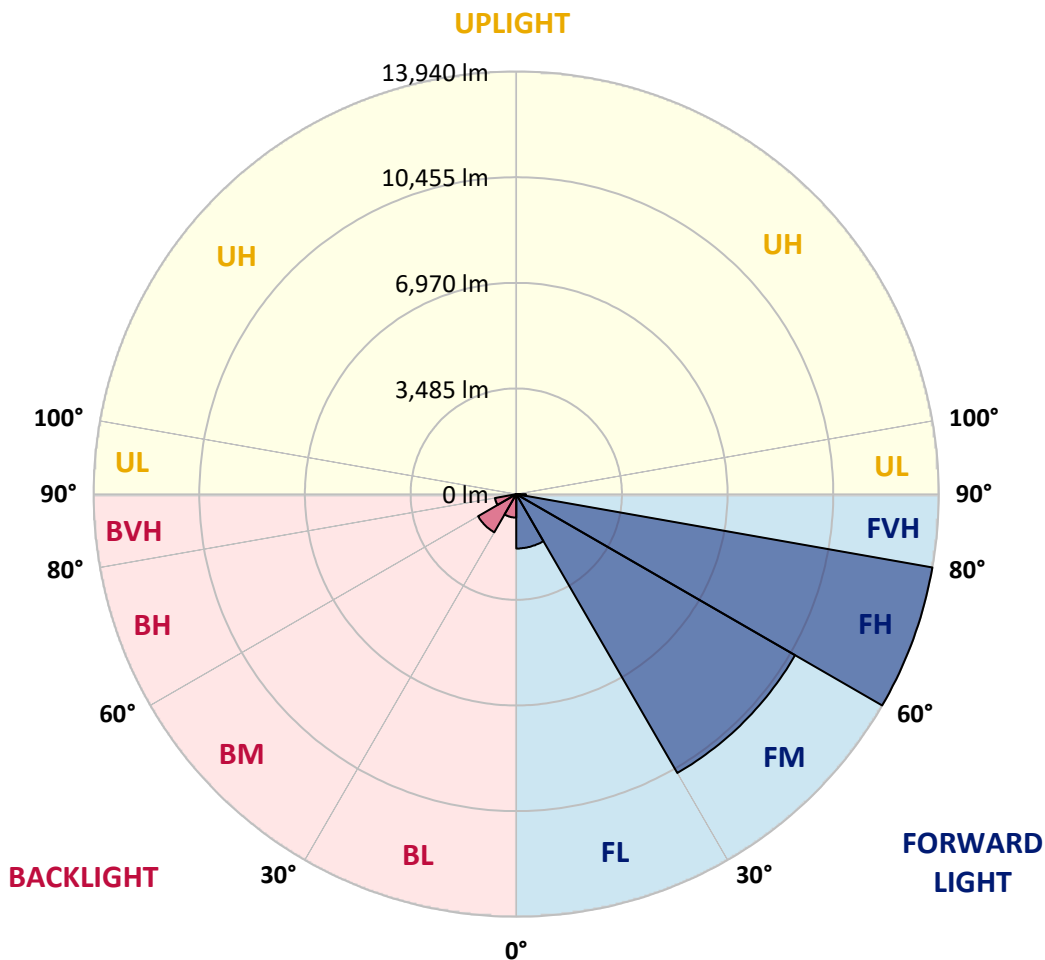


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.6	6.1			
FM (30°-60°)	10620.8	35.9			
FH (60°-80°)	13939.5	47.1			G5
FVH (80°-90°)	316.6	1.1			G3/500
BL (0°-30°)	774.2	2.6	B2/1000		
BM (30°-60°)	1455.0	4.9	B2/2500		
BH (60°-80°)	713.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.1	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5
2.5°	3244.3	3223.0	3188.9	3176.1	3142.0	3124.9	3099.4	3086.6	3039.7	2992.8	2962.9
5°	3640.8	3589.6	3606.7	3555.5	3444.7	3355.2	3350.9	3252.8	3146.3	3061.0	2945.9
7.5°	4041.5	3998.9	3935.0	3862.5	3738.8	3606.7	3568.3	3474.5	3325.3	3176.1	3022.6
10°	4344.2	4314.4	4259.0	4156.6	3986.1	3836.9	3841.2	3683.4	3525.7	3355.2	3146.3
12.5°	4531.8	4544.6	4463.6	4361.3	4212.1	4024.5	4020.2	3913.6	3734.6	3555.5	3308.3
15°	4719.4	4766.3	4642.7	4523.3	4331.4	4195.0	4220.6	4092.7	3917.9	3713.3	3440.4
17.5°	4749.2	4762.0	4736.4	4561.7	4421.0	4305.9	4310.1	4224.9	4092.7	3871.0	3636.5
20°	4698.1	4689.5	4659.7	4531.8	4438.0	4369.8	4374.1	4352.8	4280.3	4101.2	3781.5
22.5°	4548.9	4548.9	4510.5	4425.2	4382.6	4446.5	4395.4	4476.4	4399.6	4293.1	4028.7
25°	4429.5	4476.4	4455.1	4399.6	4416.7	4502.0	4527.5	4604.3	4591.5	4459.3	4199.3
27.5°	4557.4	4502.0	4514.8	4450.8	4514.8	4642.7	4655.4	4710.9	4706.6	4600.0	4352.8
30°	4642.7	4693.8	4595.8	4455.1	4523.3	4740.7	4732.2	4804.7	4838.8	4710.9	4497.7
32.5°	4915.5	4872.9	4791.9	4604.3	4612.8	4736.4	4774.8	4868.6	4889.9	4813.2	4638.4
35°	5474.0	5410.0	5056.2	4774.8	4732.2	4791.9	4817.4	5000.8	5039.1	4953.9	4787.6
37.5°	6335.2	6190.2	5763.9	5141.5	4949.6	4936.8	4936.8	5179.8	5324.8	5128.7	5009.3
40°	7567.2	7362.6	6902.2	5819.3	5235.2	5286.4	5337.6	5469.7	5452.7	5324.8	5299.2
42.5°	9136.1	8978.4	8479.6	6957.6	5780.9	5525.1	5482.5	5661.6	5930.1	5879.0	5861.9
45°	10444.9	10453.4	10133.7	8517.9	6723.1	6075.1	6104.9	6241.4	6693.3	6654.9	6650.6
47.5°	11399.9	11280.5	11233.6	10022.8	8095.9	7119.6	7077.0	7170.7	7759.1	8002.1	8112.9
50°	12269.6	12188.6	12077.7	11485.1	9745.7	8428.4	8385.8	8394.3	9293.8	9634.9	9907.7
52.5°	13348.2	13450.5	13083.8	12721.5	11881.6	10129.4	10082.5	9916.3	11033.2	11502.2	11826.2
55°	14678.3	14486.4	14072.9	14260.5	13923.7	11966.9	11881.6	11685.5	13015.6	13211.7	13552.8
57.5°	14972.5	14827.5	15253.8	15918.9	16242.9	14124.1	14090.0	13736.1	14682.6	14503.5	15467.0
60°	15705.7	15744.1	16336.7	17658.3	18221.0	16613.8	16447.5	15825.1	16298.3	16332.4	17359.9
62.5°	16460.3	16370.8	17696.7	18967.1	19832.5	18971.4	18915.9	17679.6	18216.8	17781.9	19141.9
65°	15906.1	16042.5	17939.7	20067.0	21921.5	21277.8	21230.9	19465.9	19760.1	19218.6	19866.6
67.5°	13936.5	13659.4	16315.4	19563.9	22995.8	23695.0	23643.9	21414.2	20629.8	19210.1	18361.7
70°	10214.7	9976.0	12141.7	16566.9	21456.8	24931.3	25136.0	22769.9	20275.9	17419.5	14166.7
72.5°	5005.0	5009.3	6804.1	11233.6	16976.2	22723.0	22825.3	20877.0	17419.5	12840.8	8023.4
75°	1479.3	1496.4	2519.6	5508.1	10973.5	17257.5	17372.6	15846.4	12073.5	6633.6	2737.0
77.5°	541.4	541.4	835.6	2067.7	5474.0	10892.5	10884.0	9728.7	6113.5	2246.7	639.5
80°	281.4	294.2	434.8	844.1	2370.4	5674.4	5887.5	4762.0	2323.5	946.4	187.6
82.5°	115.1	127.9	238.7	434.8	1138.3	1990.9	2178.5	1867.3	1010.4	660.8	85.3
85°	34.1	38.4	115.1	243.0	447.6	498.8	554.2	626.7	635.2	511.6	38.4
87.5°	4.3	4.3	46.9	81.0	98.1	106.6	123.6	123.6	324.0	358.1	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°	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5	2907.5
2.5°	2928.8	2907.5	2873.4	2796.7	2779.6	2724.2	2719.9	2668.8	2685.8	2651.7	2638.9
5°	2907.5	2860.6	2766.8	2707.1	2647.5	2609.1	2583.5	2562.2	2557.9	2540.9	2532.4
7.5°	2945.9	2881.9	2737.0	2643.2	2540.9	2506.8	2451.4	2447.1	2417.2	2387.4	2387.4
10°	3073.8	2958.7	2800.9	2643.2	2511.0	2400.2	2272.3	2178.5	2144.4	2067.7	2076.2
12.5°	3176.1	3073.8	2843.6	2681.6	2481.2	2229.7	1948.3	1730.9	1628.6	1530.5	1568.9
15°	3321.1	3171.8	2924.6	2690.1	2366.1	1931.2	1470.8	1227.8	1134.0	1112.7	1108.4
17.5°	3478.8	3321.1	3026.9	2668.8	2131.6	1492.1	1082.9	942.2	959.2	984.8	980.5
20°	3653.6	3461.7	3103.6	2596.3	1760.7	1082.9	886.8	882.5	908.1	946.4	955.0
22.5°	3836.9	3670.6	3197.4	2378.9	1313.1	869.7	852.6	852.6	869.7	916.6	908.1
25°	4041.5	3819.9	3244.3	2042.1	942.2	801.5	810.0	827.1	835.6	874.0	878.2
27.5°	4199.3	3986.1	3257.1	1637.1	767.4	741.8	763.1	784.4	797.2	827.1	839.9
30°	4344.2	4195.0	3188.9	1219.3	703.4	690.6	699.2	729.0	754.6	780.2	780.2
32.5°	4527.5	4314.4	3031.2	865.4	665.1	643.7	639.5	652.3	682.1	712.0	712.0
35°	4715.1	4514.8	2779.6	694.9	631.0	601.1	584.1	571.3	584.1	605.4	622.4
37.5°	4988.0	4817.4	2464.1	639.5	605.4	562.7	528.6	498.8	477.5	473.2	486.0
40°	5375.9	5158.5	2059.1	601.1	575.5	524.4	473.2	422.1	375.2	345.3	349.6
42.5°	5964.3	5661.6	1620.0	579.8	554.2	481.7	409.3	336.8	277.1	247.3	247.3
45°	6804.1	6326.6	1189.4	558.5	528.6	430.6	336.8	251.5	191.8	174.8	179.1
47.5°	8070.3	7128.1	852.6	524.4	494.5	375.2	264.3	179.1	140.7	132.2	136.4
50°	9724.4	8078.8	665.1	486.0	451.9	315.5	196.1	132.2	110.8	106.6	110.8
52.5°	11459.6	9038.0	584.1	451.9	388.0	251.5	144.9	106.6	93.8	89.5	93.8
55°	12943.2	9656.2	507.3	400.7	311.2	187.6	115.1	93.8	81.0	68.2	68.2
57.5°	14443.8	9967.4	400.7	332.5	230.2	140.7	98.1	81.0	68.2	55.4	51.2
60°	15663.1	10189.1	285.6	247.3	162.0	110.8	85.3	72.5	55.4	42.6	38.4
62.5°	16464.6	9553.9	208.9	187.6	119.4	93.8	72.5	59.7	42.6	29.8	29.8
65°	16068.1	8675.7	162.0	132.2	89.5	72.5	59.7	42.6	29.8	17.1	12.8
67.5°	14418.2	7068.4	132.2	98.1	68.2	55.4	46.9	34.1	17.1	4.3	4.3
70°	10756.1	5179.8	106.6	72.5	55.4	42.6	34.1	21.3	8.5	4.3	0.0
72.5°	5883.3	2835.0	85.3	59.7	42.6	34.1	25.6	17.1	8.5	0.0	0.0
75°	1944.0	754.6	63.9	42.6	25.6	21.3	17.1	12.8	4.3	0.0	0.0
77.5°	469.0	196.1	51.2	38.4	21.3	12.8	8.5	4.3	4.3	0.0	0.0
80°	144.9	81.0	38.4	25.6	17.1	12.8	4.3	0.0	0.0	0.0	0.0
82.5°	59.7	38.4	17.1	17.1	12.8	4.3	0.0	0.0	0.0	0.0	0.0
85°	29.8	21.3	12.8	8.5	8.5	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	8.5	4.3	4.3	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)