

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: P484773

Luminaire Tested: **IFLD-L-SA7B-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484773  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

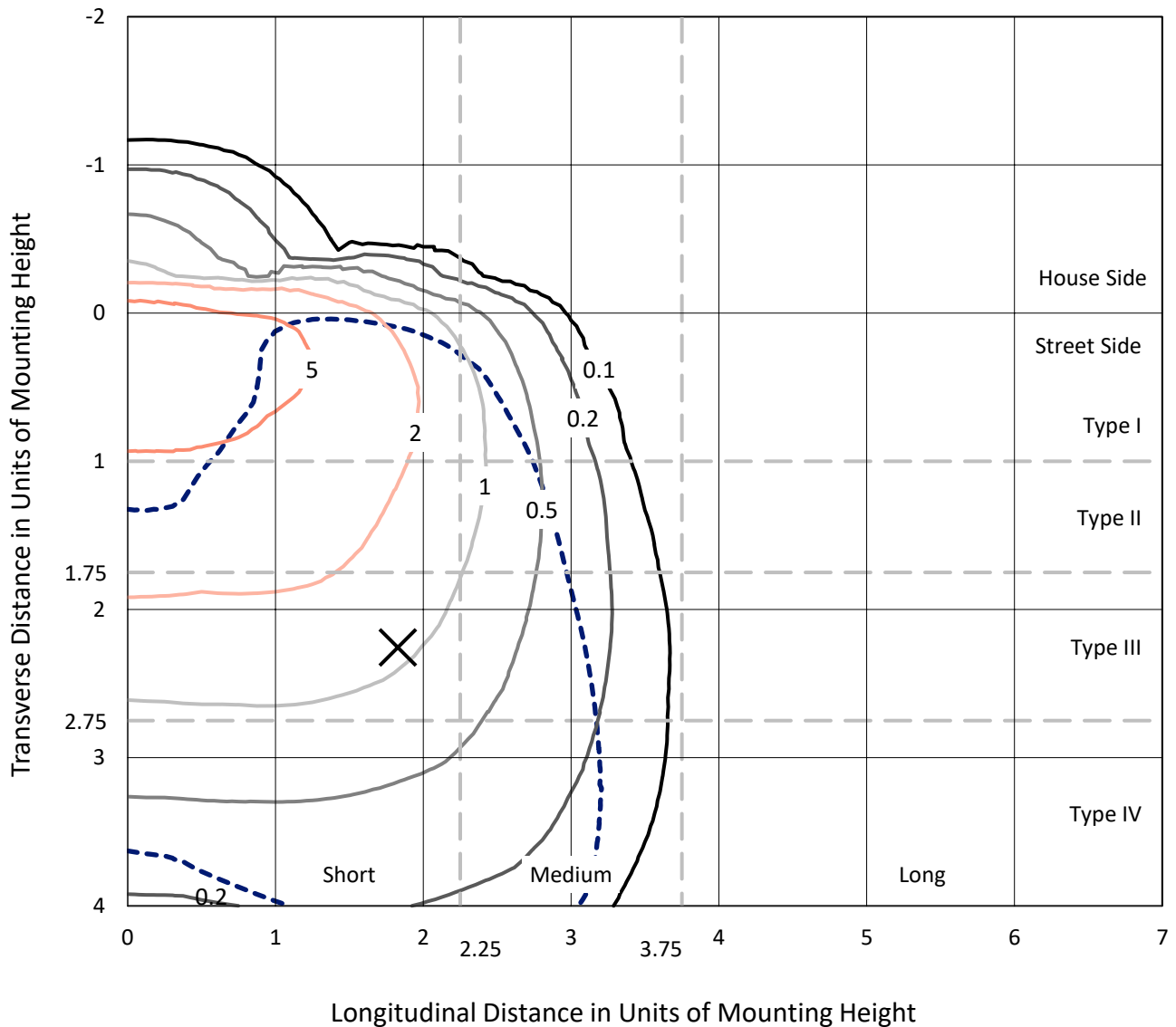
Lumens per Lamp: N/A  
Luminaire Lumens: 29016.7 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

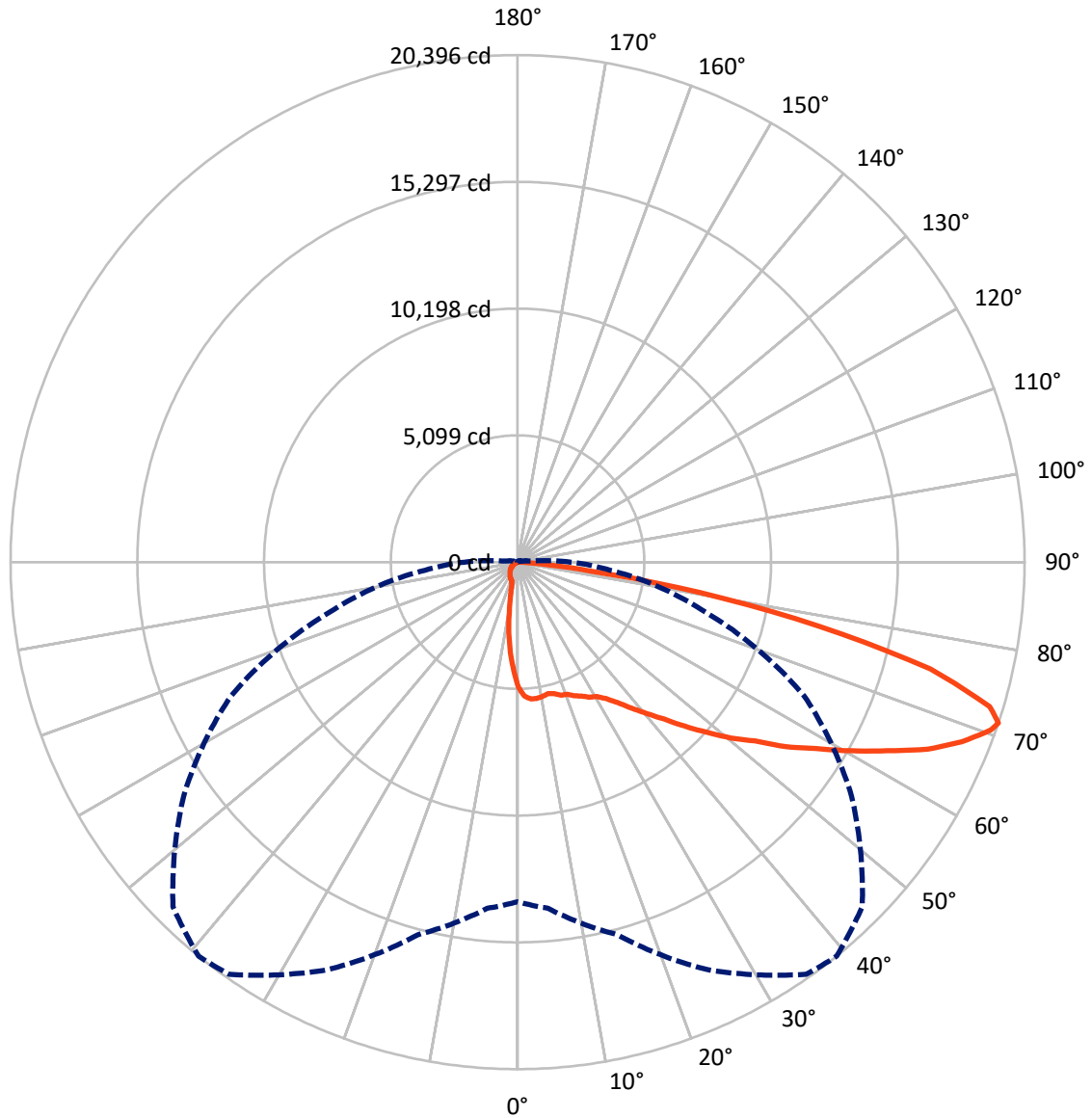
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2184.5	0.0	2184.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	26832.2	0.0	26832.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29016.7	0.0	29016.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.3	1.5
10°-20°	1039.3	3.6
20°-30°	1668.5	5.8
30°-40°	2554.0	8.8
40°-50°	4099.7	14.1
50°-60°	6021.7	20.8
60°-70°	7584.1	26.1
70°-80°	5061.5	17.4
80°-90°	565.6	1.9
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°	29016.7	100.0
0°-180°	29016.7	100.0

**Coefficient of Utilization**

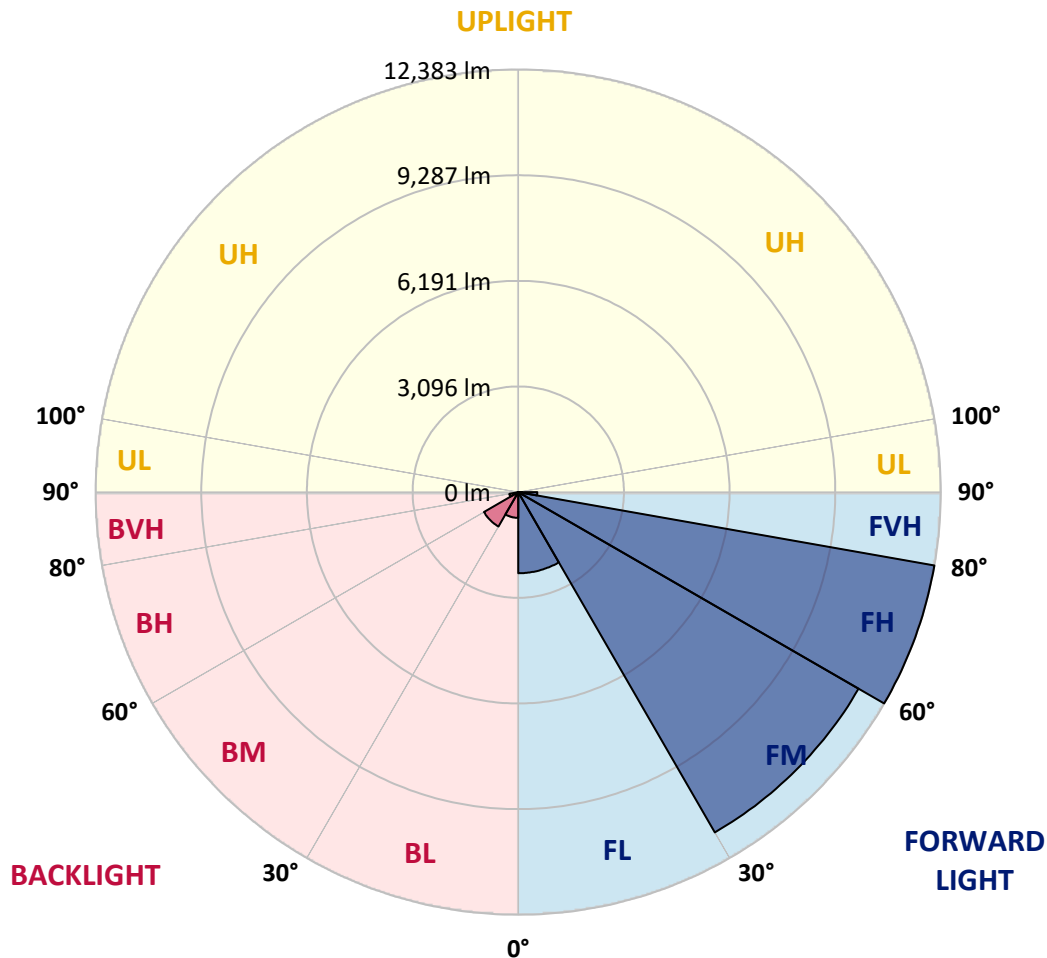


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.9	8.2			
FM (30°-60°)	11514.3	39.7			
FH (60°-80°)	12382.7	42.7			G5
FVH (80°-90°)	559.4	1.9			G4/750
BL (0°-30°)	754.2	2.6	B2/1000		
BM (30°-60°)	1161.2	4.0	B2/2500		
BH (60°-80°)	262.9	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	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°	39°	45°	55°	65°	75°	85°
0°	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5
2.5°	5442.6	5495.8	5442.6	5419.7	5396.9	5400.7	5339.8	5351.2	5278.9	5183.8	5107.6
5°	5613.8	5686.1	5629.1	5602.4	5598.6	5526.3	5495.8	5423.5	5336.0	5187.6	5096.2
7.5°	5598.6	5583.4	5610.0	5587.2	5537.7	5537.7	5503.5	5400.7	5313.2	5145.7	4989.6
10°	5484.4	5530.1	5507.3	5480.6	5492.0	5495.8	5431.1	5358.8	5332.2	5164.7	4909.7
12.5°	5473.0	5396.9	5480.6	5484.4	5434.9	5431.1	5423.5	5404.5	5320.8	5168.5	4928.8
15°	5434.9	5404.5	5488.2	5492.0	5503.5	5492.0	5503.5	5488.2	5404.5	5317.0	5012.5
17.5°	5465.4	5431.1	5549.1	5606.2	5579.6	5632.9	5613.8	5545.3	5473.0	5370.2	5092.4
20°	5473.0	5522.5	5651.9	5674.7	5758.5	5670.9	5667.1	5594.8	5549.1	5438.8	5141.9
22.5°	5613.8	5636.7	5796.5	5846.0	5849.8	5838.4	5743.2	5659.5	5640.5	5503.5	5153.3
25°	5827.0	5906.9	5979.2	6009.7	6021.1	5967.8	5868.8	5762.3	5716.6	5629.1	5271.3
27.5°	6203.8	6154.3	6219.0	6264.7	6135.2	6154.3	6028.7	5937.3	5872.6	5796.5	5408.3
30°	6538.7	6493.0	6496.8	6489.2	6378.8	6276.1	6241.8	6082.0	6002.0	6032.5	5621.4
32.5°	6839.4	6740.4	6824.1	6786.1	6580.6	6550.1	6523.5	6321.7	6337.0	6477.8	5941.1
35°	7117.2	7082.9	7151.4	7082.9	6945.9	6938.3	6911.7	6736.6	6820.3	7022.0	6489.2
37.5°	7372.2	7383.6	7467.3	7433.1	7444.5	7452.1	7436.9	7250.4	7490.2	7943.1	7128.6
40°	7608.2	7592.9	7798.5	7905.0	7927.9	8011.6	8011.6	7965.9	8335.1	8845.1	8015.4
42.5°	7859.4	7897.4	8163.8	8342.7	8559.7	8632.0	8730.9	8753.8	9324.7	9907.0	8921.2
45°	8270.4	8205.7	8544.4	8966.9	9157.2	9412.2	9564.4	9693.8	10382.7	11182.0	9827.1
47.5°	8791.8	8662.4	8959.3	9572.1	10013.5	10222.9	10496.9	10668.2	11341.8	12167.7	10683.4
50°	9370.3	9237.1	9381.8	10226.7	10740.5	11121.1	11471.2	11688.2	12502.7	13271.5	11307.6
52.5°	10025.0	9903.2	9926.0	10908.0	11665.3	11943.2	12403.7	12727.2	13537.9	13937.5	11528.3
55°	10721.5	10691.0	10618.7	11574.0	12476.0	13100.2	13378.0	13766.3	14599.8	14299.1	11768.1
57.5°	11421.8	11326.6	11429.4	12457.0	13777.7	14150.7	14535.1	14767.2	15189.7	14615.0	11676.8
60°	12080.2	12087.8	12232.4	13416.1	14885.2	15414.2	15760.6	15619.8	15794.8	14752.0	11467.4
62.5°	12635.9	12620.7	12986.0	14493.2	16350.5	16708.3	16967.1	16339.1	16076.5	14885.2	11102.1
65°	13134.5	13305.7	13880.4	15775.8	17728.3	18139.3	17983.3	17020.4	16350.5	14493.2	10074.4
67.5°	13511.3	13766.3	14763.4	16982.3	18991.9	19281.1	19064.2	17538.0	16027.0	12955.6	8205.7
70°	13732.0	13990.8	15395.2	17987.1	20000.5	20209.8	19699.8	17138.4	14139.2	9381.8	5119.1
71°	13663.5	13979.4	15517.0	18093.7	20240.2	20396.3	19604.6	16400.0	12715.8	7855.6	3733.7
72.5°	13043.1	13340.0	15010.8	18017.5	19951.0	19855.8	18862.5	14626.4	10009.7	5008.7	1929.6
75°	9583.5	9903.2	12883.3	15585.5	17808.2	17153.6	15265.8	10264.7	5221.8	1533.8	563.3
77.5°	4772.7	4826.0	7996.4	11315.2	13062.1	12411.3	10230.5	5724.2	1952.5	452.9	281.6
80°	2199.9	2215.1	2999.1	5861.2	7897.4	7433.1	5731.8	2824.0	883.0	239.8	220.7
82.5°	1499.6	1522.4	1807.8	2428.2	3429.2	2892.5	2321.7	1807.8	506.2	144.6	216.9
85°	274.0	251.2	1012.4	1286.4	1324.5	898.2	803.1	1564.3	190.3	83.7	190.3
87.5°	0.0	3.8	140.8	525.2	471.9	209.3	274.0	380.6	19.0	26.6	34.3
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°	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5	5050.5
2.5°	5042.9	5001.1	4860.2	4704.2	4563.4	4453.0	4312.2	4247.5	4144.7	4087.6	4083.8
5°	4970.6	4856.4	4612.9	4350.2	4057.2	3813.6	3543.4	3391.1	3216.1	3162.8	3151.4
7.5°	4848.8	4685.2	4327.4	3958.2	3509.1	3079.0	2747.9	2394.0	2177.0	2085.7	2051.4
10°	4772.7	4574.8	4087.6	3535.8	2907.8	2302.6	1838.3	1461.5	1263.6	1168.4	1145.6
12.5°	4772.7	4559.6	3893.5	3132.3	2298.8	1575.7	1138.0	921.0	856.3	833.5	833.5
15°	4761.3	4529.1	3707.0	2717.5	1701.3	1058.1	848.7	803.1	795.5	791.6	787.8
17.5°	4818.4	4475.8	3516.7	2272.2	1202.7	833.5	780.2	772.6	765.0	765.0	757.4
20°	4860.2	4445.4	3288.4	1800.2	898.2	772.6	749.8	738.4	734.6	730.7	738.4
22.5°	4826.0	4399.7	3006.7	1347.3	784.0	734.6	719.3	707.9	700.3	700.3	704.1
25°	4890.7	4357.9	2725.1	1016.2	734.6	700.3	685.1	677.5	673.7	669.9	662.2
27.5°	4978.2	4376.9	2390.2	818.3	692.7	666.0	650.8	643.2	639.4	631.8	639.4
30°	5084.8	4373.1	2021.0	715.5	654.6	628.0	612.8	609.0	601.3	597.5	601.3
32.5°	5267.5	4472.0	1640.4	662.2	612.8	589.9	574.7	570.9	567.1	563.3	559.5
35°	5659.5	4593.8	1282.6	620.4	574.7	548.1	536.6	529.0	525.2	521.4	517.6
37.5°	6142.9	4864.1	978.1	582.3	536.6	510.0	498.6	494.8	479.6	475.7	471.9
40°	6748.0	5153.3	753.6	540.5	502.4	475.7	464.3	452.9	433.9	426.3	418.7
42.5°	7501.6	5434.9	620.4	502.4	464.3	445.3	426.3	407.2	392.0	376.8	369.2
45°	8255.2	5762.3	544.3	468.1	433.9	411.0	395.8	369.2	342.5	319.7	315.9
47.5°	8883.2	5880.2	498.6	430.1	403.4	384.4	361.6	327.3	289.3	266.4	262.6
50°	9351.3	5811.7	452.9	392.0	369.2	350.2	319.7	277.8	239.8	216.9	209.3
52.5°	9442.7	5511.1	411.0	361.6	334.9	312.1	277.8	232.2	190.3	167.5	163.7
55°	9377.9	5012.5	376.8	334.9	304.5	270.2	232.2	186.5	148.4	125.6	121.8
57.5°	9244.7	4422.6	338.7	300.7	266.4	232.2	190.3	152.2	110.4	87.5	87.5
60°	8791.8	3619.5	300.7	262.6	228.4	197.9	156.0	110.4	76.1	57.1	53.3
62.5°	8160.0	2782.2	262.6	224.6	197.9	163.7	121.8	79.9	45.7	30.4	30.4
65°	7006.8	1948.7	220.7	186.5	163.7	133.2	91.3	49.5	26.6	11.4	11.4
67.5°	5324.6	1206.5	182.7	156.0	140.8	106.6	64.7	30.4	11.4	3.8	0.0
70°	3056.2	628.0	144.6	125.6	110.4	79.9	45.7	15.2	7.6	0.0	0.0
71°	2135.2	464.3	129.4	110.4	99.0	72.3	38.1	11.4	3.8	0.0	0.0
72.5°	1069.5	308.3	110.4	91.3	79.9	57.1	30.4	11.4	3.8	0.0	0.0
75°	380.6	197.9	76.1	60.9	57.1	41.9	19.0	7.6	3.8	0.0	0.0
77.5°	262.6	159.9	53.3	38.1	38.1	26.6	11.4	3.8	3.8	0.0	0.0
80°	239.8	87.5	34.3	22.8	19.0	15.2	7.6	3.8	0.0	0.0	0.0
82.5°	239.8	64.7	19.0	15.2	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	167.5	34.3	11.4	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	26.6	11.4	7.6	3.8	3.8	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)