

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: P481697

Luminaire Tested: **IFLD-L-SA8B-740-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481697  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

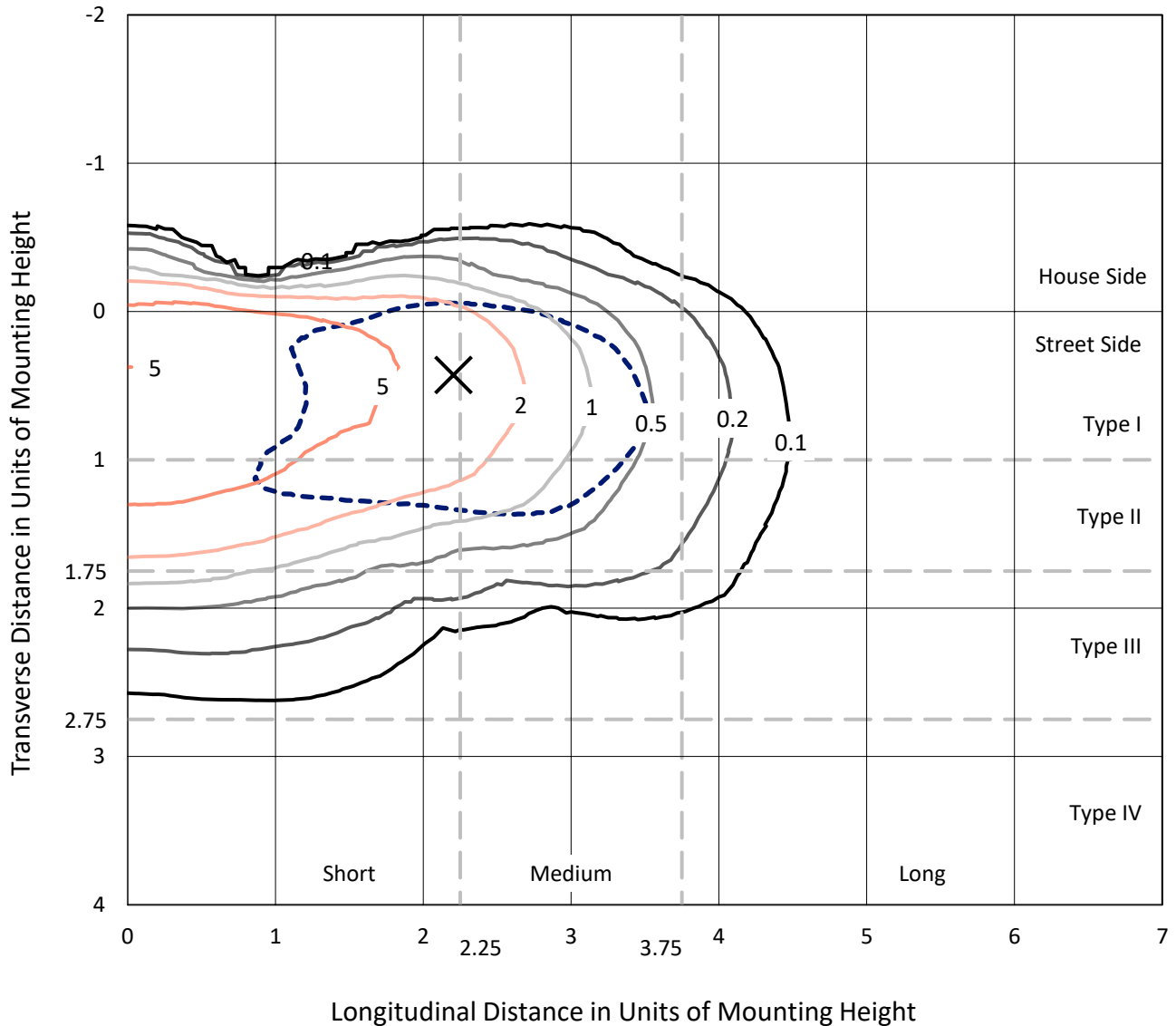
Lumens per Lamp: N/A  
Luminaire Lumens: 29308.7 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

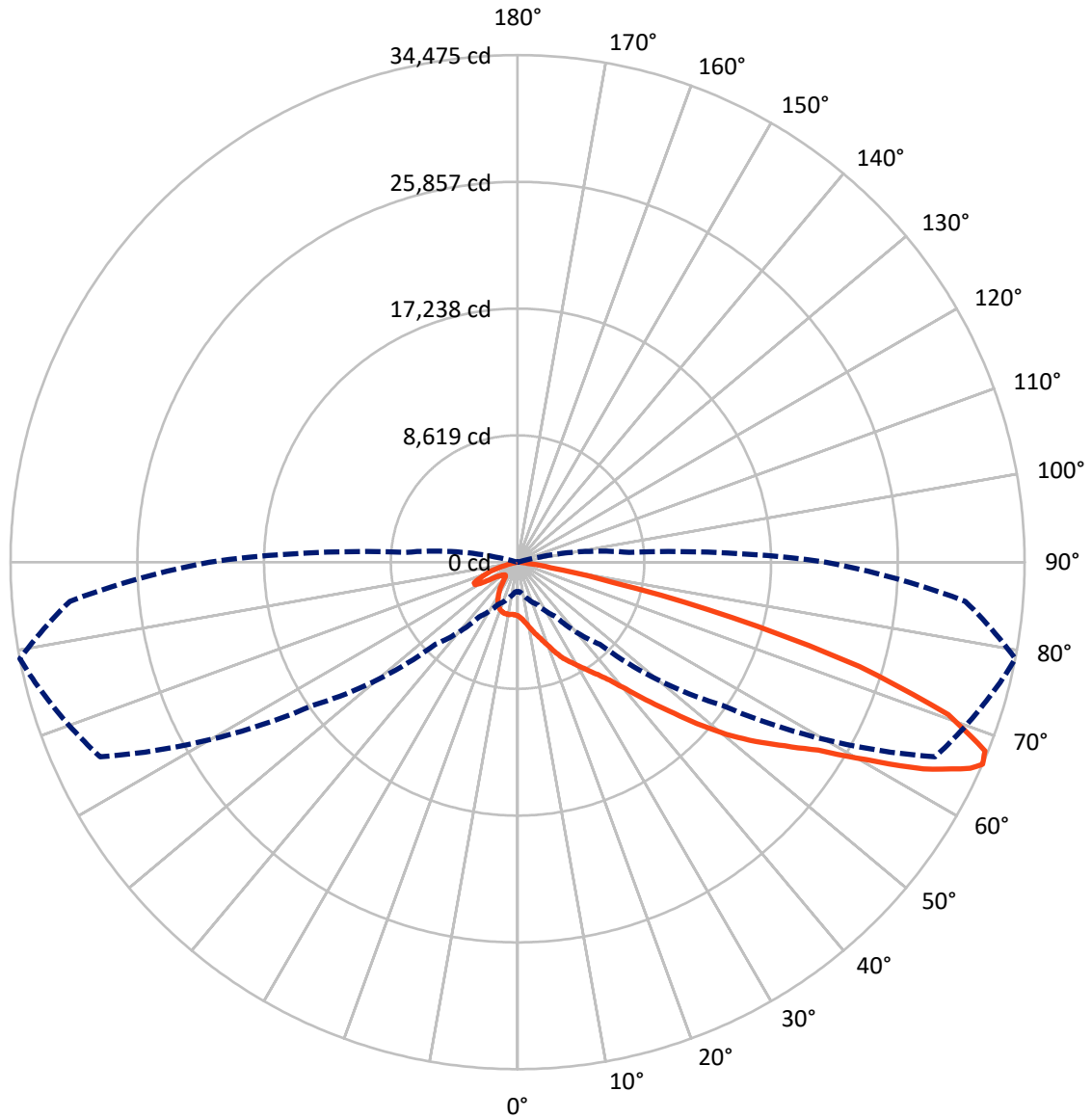
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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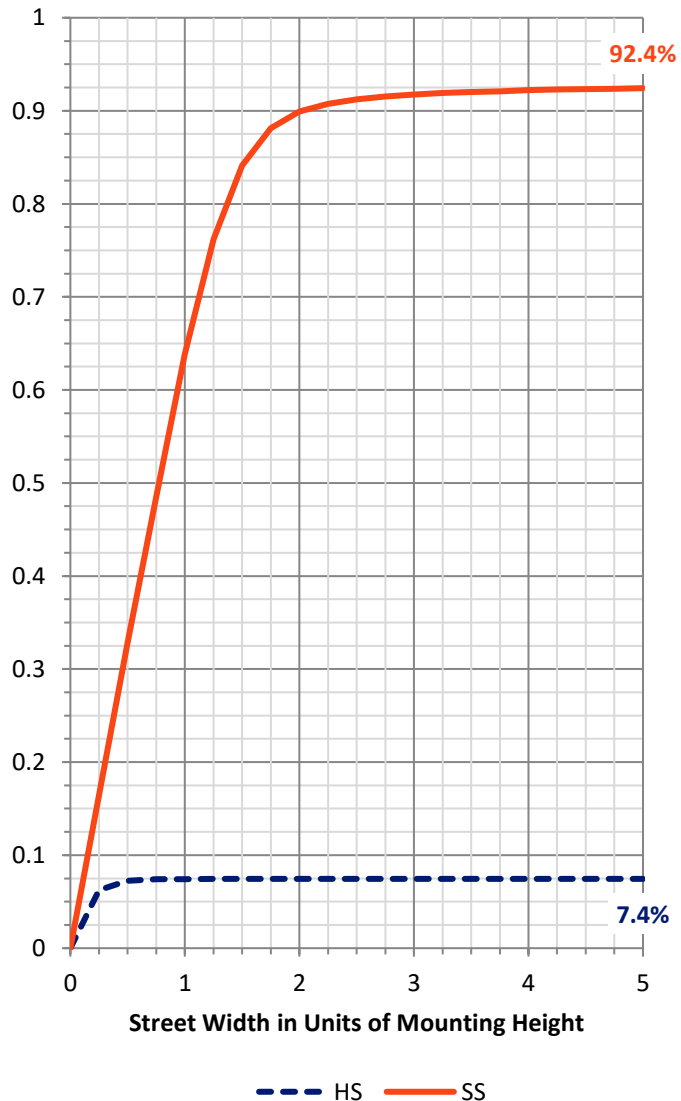
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2200.7	0.0	2200.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27108.0	0.0	27108.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29308.7	0.0	29308.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.8	1.2
10°-20°	949.1	3.2
20°-30°	1576.6	5.4
30°-40°	2708.0	9.2
40°-50°	4906.0	16.7
50°-60°	7754.9	26.5
60°-70°	7891.2	26.9
70°-80°	3009.3	10.3
80°-90°	168.7	0.6
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°	29308.7	100.0
0°-180°	29308.7	100.0

**Coefficient of Utilization**



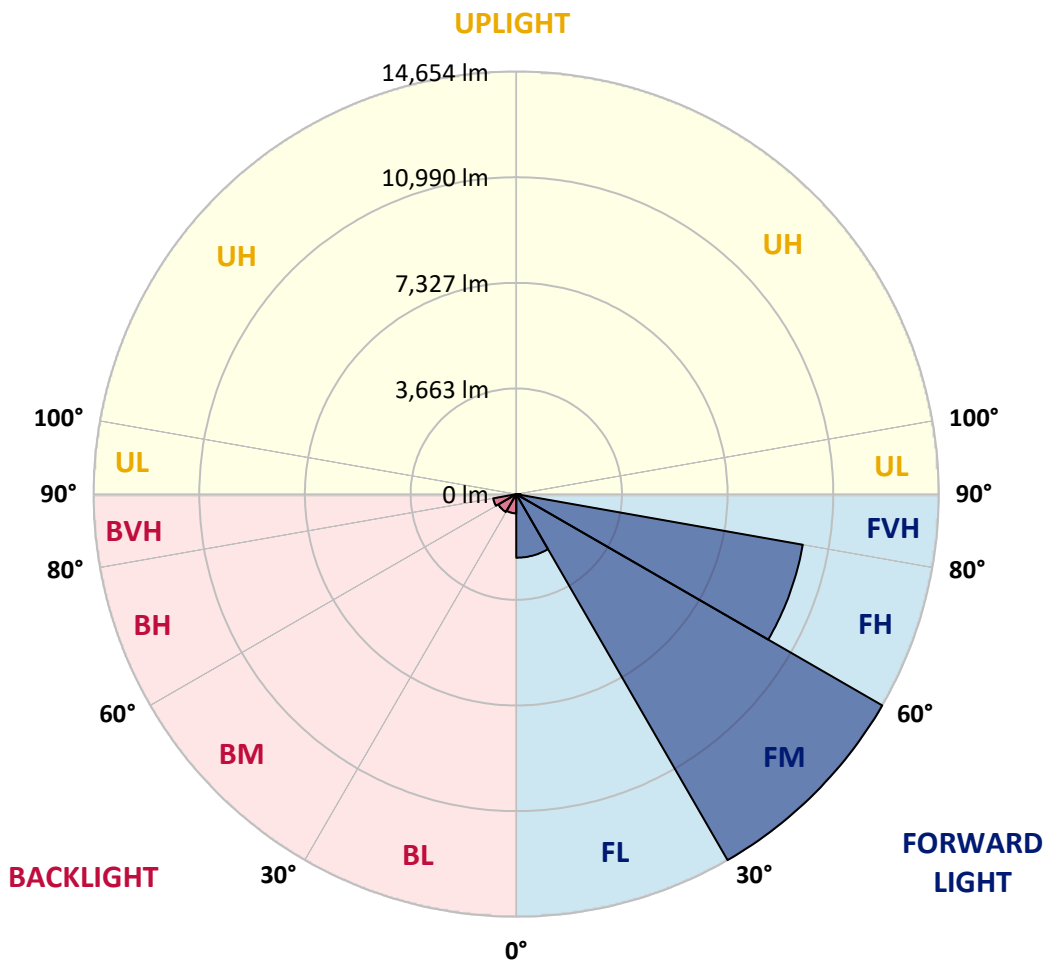
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.0	7.5			
FM (30°-60°)	14653.7	50.0			
FH (60°-80°)	10089.2	34.4			G4/12000
FVH (80°-90°)	160.1	0.5			G2/225
BL (0°-30°)	665.5	2.3	B2/1000		
BM (30°-60°)	715.3	2.4	B1/1000		
BH (60°-80°)	811.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4
2.5°	4129.8	4125.3	4107.2	4075.6	4034.9	4021.4	3962.6	3881.3	3836.1	3786.4	3763.8
5°	4414.5	4391.9	4446.1	4423.5	4432.6	4324.1	4251.8	4193.1	4021.4	3953.6	3845.2
7.5°	4477.7	4500.3	4495.8	4532.0	4568.1	4608.8	4559.1	4473.2	4301.5	4202.1	4084.6
10°	4477.7	4468.7	4504.8	4554.6	4658.5	4748.8	4884.4	4771.4	4640.4	4522.9	4310.6
12.5°	4396.4	4382.9	4419.0	4522.9	4708.2	4893.4	5042.5	5151.0	4965.7	4870.8	4595.2
15°	4147.9	4134.3	4283.4	4468.7	4712.7	5015.4	5327.2	5503.4	5376.9	5227.8	4920.5
17.5°	3840.6	3858.7	4016.9	4324.1	4712.7	5074.2	5471.8	5855.9	5837.8	5648.0	5327.2
20°	3736.7	3750.3	3908.4	4129.8	4572.6	5114.8	5697.7	6239.9	6348.4	6122.4	5702.2
22.5°	3935.5	3922.0	3935.5	4071.1	4477.7	5078.7	5846.8	6678.2	6872.5	6696.3	6194.7
25°	4613.3	4604.3	4491.3	4283.4	4423.5	4997.4	5923.6	6967.4	7414.7	7252.0	6592.4
27.5°	5607.3	5571.2	5395.0	4961.2	4676.5	5047.1	6050.1	7247.5	7889.1	7703.9	6949.3
30°	6673.7	6587.8	6357.4	5815.2	5331.7	5232.3	6122.4	7455.4	8417.8	8182.8	7261.1
32.5°	7410.2	7523.1	7450.8	6899.6	6158.6	5661.6	6239.9	7717.4	8905.8	8752.1	7794.2
35°	8548.8	8679.9	8377.1	7889.1	7143.6	6343.8	6488.4	7929.8	9655.8	9398.3	8291.3
37.5°	9985.7	10085.1	9868.2	8941.9	8155.7	7184.3	6999.0	8372.6	10302.0	10180.0	8928.4
40°	10708.6	11187.6	10880.3	10044.4	9199.5	8359.0	7843.9	8892.2	11427.0	11327.6	9809.5
42.5°	11707.2	11946.7	11788.5	11169.5	10288.4	9615.2	8887.7	9904.3	12791.6	12791.6	11002.3
45°	12764.5	12773.5	12764.5	12258.4	11476.7	11128.8	10297.4	11174.0	14260.1	14422.7	12430.1
47.5°	13632.0	13903.1	13880.5	13577.8	12972.3	12841.3	11707.2	12619.9	16103.6	16388.2	13821.8
50°	14079.3	14382.1	14472.4	14630.6	14603.5	14879.1	13248.0	14296.2	17694.1	18394.4	15611.1
52.5°	13957.3	13979.9	14535.7	15159.2	16153.3	16925.9	15105.0	16198.5	19555.6	20247.0	16993.7
55°	12958.8	12872.9	14016.1	14730.0	16785.9	18177.5	17676.0	18570.6	21006.1	22058.8	18421.5
57.5°	10767.4	10789.9	11847.3	13297.7	16316.0	18674.6	20423.2	21670.3	23039.3	24101.2	20427.7
60°	7432.8	7405.7	8589.5	10265.8	13555.2	17748.3	22004.6	25687.1	25759.4	27264.0	24028.9
62.5°	4179.5	4188.6	5087.7	6520.1	9484.1	14504.1	21927.8	29952.5	29645.2	30964.6	28122.5
65°	2367.6	2426.4	3045.4	3863.2	5679.6	9737.2	18859.8	31651.4	32640.9	33815.7	30607.7
66°	2001.7	2042.3	2571.0	3190.0	4532.0	7898.2	16975.6	31321.6	33580.8	34475.4	30558.0
67.5°	1549.8	1604.0	2046.8	2530.3	3325.5	5467.3	13663.7	29681.4	33752.5	34276.6	29694.9
70°	1061.8	1098.0	1436.9	1920.3	2272.8	2796.9	8169.3	24539.4	30625.7	31068.5	25809.1
72.5°	745.5	763.6	1007.6	1454.9	1748.6	1599.5	4053.0	17459.1	23437.0	24300.0	20075.3
75°	537.7	555.8	691.3	1043.8	1364.6	1048.3	1857.1	11151.4	14373.0	15050.8	12091.2
77.5°	388.6	411.2	469.9	673.2	989.5	736.5	912.7	5824.2	6777.6	6660.1	5200.7
80°	235.0	257.5	347.9	433.8	722.9	519.6	501.5	2430.9	2403.8	2281.8	1635.7
82.5°	108.4	126.5	185.3	293.7	506.1	361.5	239.5	867.5	759.1	695.8	460.9
85°	31.6	40.7	108.4	221.4	257.5	176.2	144.6	298.2	311.8	266.6	153.6
87.5°	0.0	4.5	49.7	54.2	76.8	58.7	54.2	76.8	144.6	117.5	49.7
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°	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4	3646.4
2.5°	3682.5	3650.9	3574.1	3456.6	3352.7	3298.4	3221.6	3153.8	3117.7	3113.2	3108.7
5°	3772.9	3687.0	3501.8	3289.4	3131.3	2959.6	2842.1	2756.2	2674.9	2598.1	2643.3
7.5°	3894.9	3759.3	3456.6	3181.0	2837.6	2616.2	2408.3	2286.3	2214.0	2146.2	2137.2
10°	4084.6	3912.9	3424.9	2927.9	2534.8	2209.5	1997.1	1820.9	1721.5	1604.0	1649.2
12.5°	4342.2	4034.9	3307.5	2697.5	2191.4	1848.0	1545.3	1260.6	1102.5	980.5	985.0
15°	4599.7	4197.6	3199.0	2417.3	1879.7	1427.8	985.0	790.7	745.5	718.4	727.5
17.5°	4852.8	4328.6	3031.8	2132.7	1522.7	908.2	718.4	677.8	655.2	628.1	628.1
20°	5160.0	4414.5	2824.0	1870.6	1048.3	673.2	614.5	587.4	551.2	515.1	519.6
22.5°	5458.2	4486.8	2584.5	1536.3	704.9	582.9	515.1	479.0	447.3	411.2	411.2
25°	5756.4	4509.4	2272.8	1102.5	569.3	465.4	402.1	352.4	320.8	289.2	293.7
27.5°	5959.8	4369.3	1979.1	704.9	456.4	352.4	280.1	239.5	212.4	180.7	180.7
30°	6077.3	4111.7	1662.8	497.0	343.4	239.5	167.2	126.5	99.4	76.8	72.3
32.5°	6194.7	3903.9	1305.8	379.5	225.9	126.5	63.3	22.6	0.0	0.0	0.0
35°	6429.7	3668.9	876.6	212.4	76.8	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6578.8	3343.6	402.1	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6953.8	3181.0	99.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7563.8	3068.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8232.5	3022.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9122.7	3144.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10062.5	3474.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11092.7	3786.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11991.8	4161.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13645.6	5047.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16614.2	6786.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19957.8	8078.9	49.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21182.3	8047.3	85.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	20965.4	7604.5	85.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19840.3	6755.0	76.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17038.9	5580.2	76.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12990.4	4346.7	72.3	18.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7839.4	2313.4	58.7	22.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3122.2	813.3	45.2	18.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	844.9	244.0	27.1	18.1	13.6	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	221.4	90.4	22.6	18.1	9.0	4.5	0.0	0.0	0.0	0.0	0.0
85°	85.8	36.1	18.1	13.6	13.6	9.0	4.5	0.0	0.0	0.0	0.0
87.5°	27.1	13.6	13.6	9.0	9.0	4.5	4.5	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)