

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: P483570

Luminaire Tested: **IFLD-L-SA8C-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483570  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34039.8 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

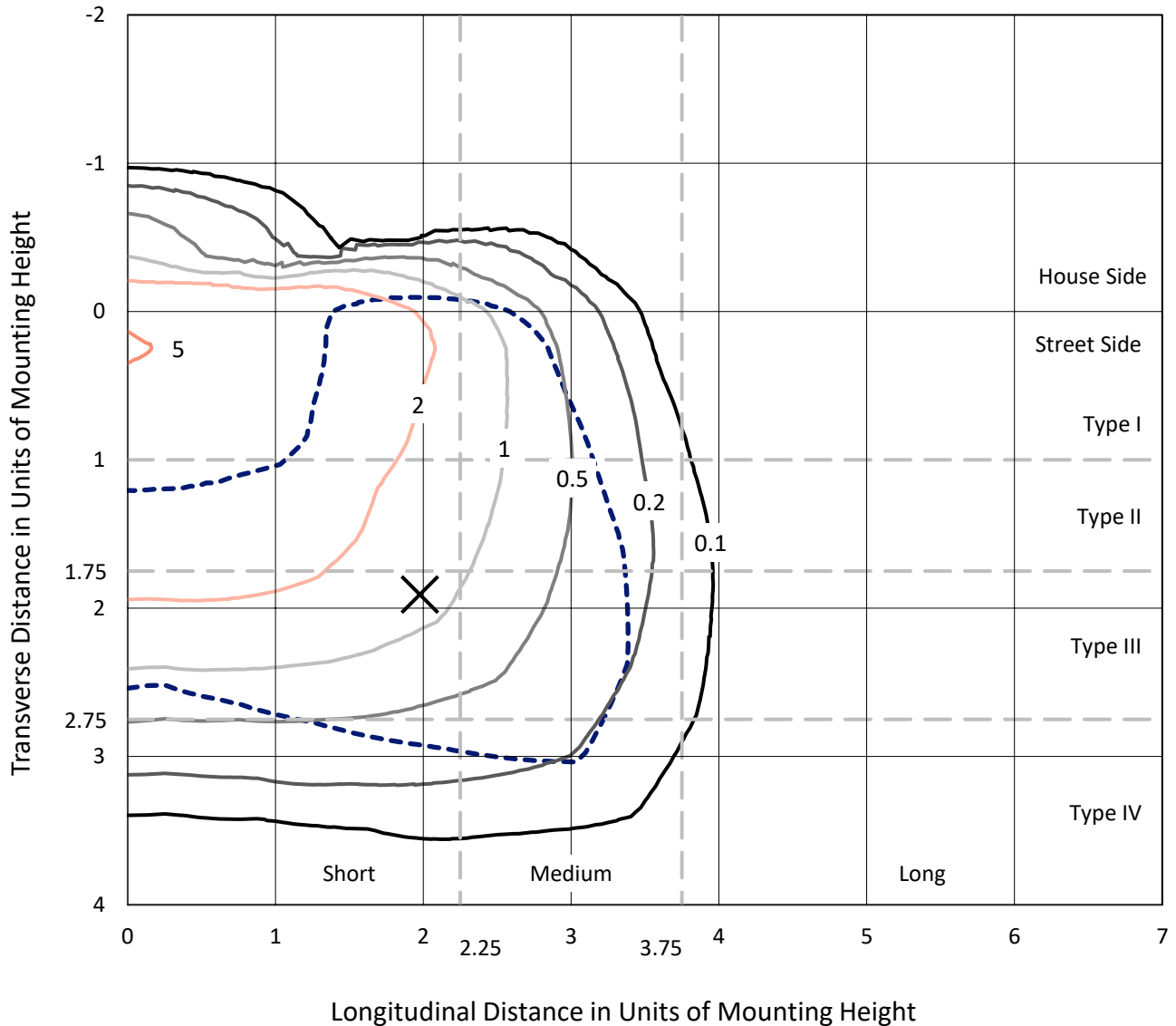
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

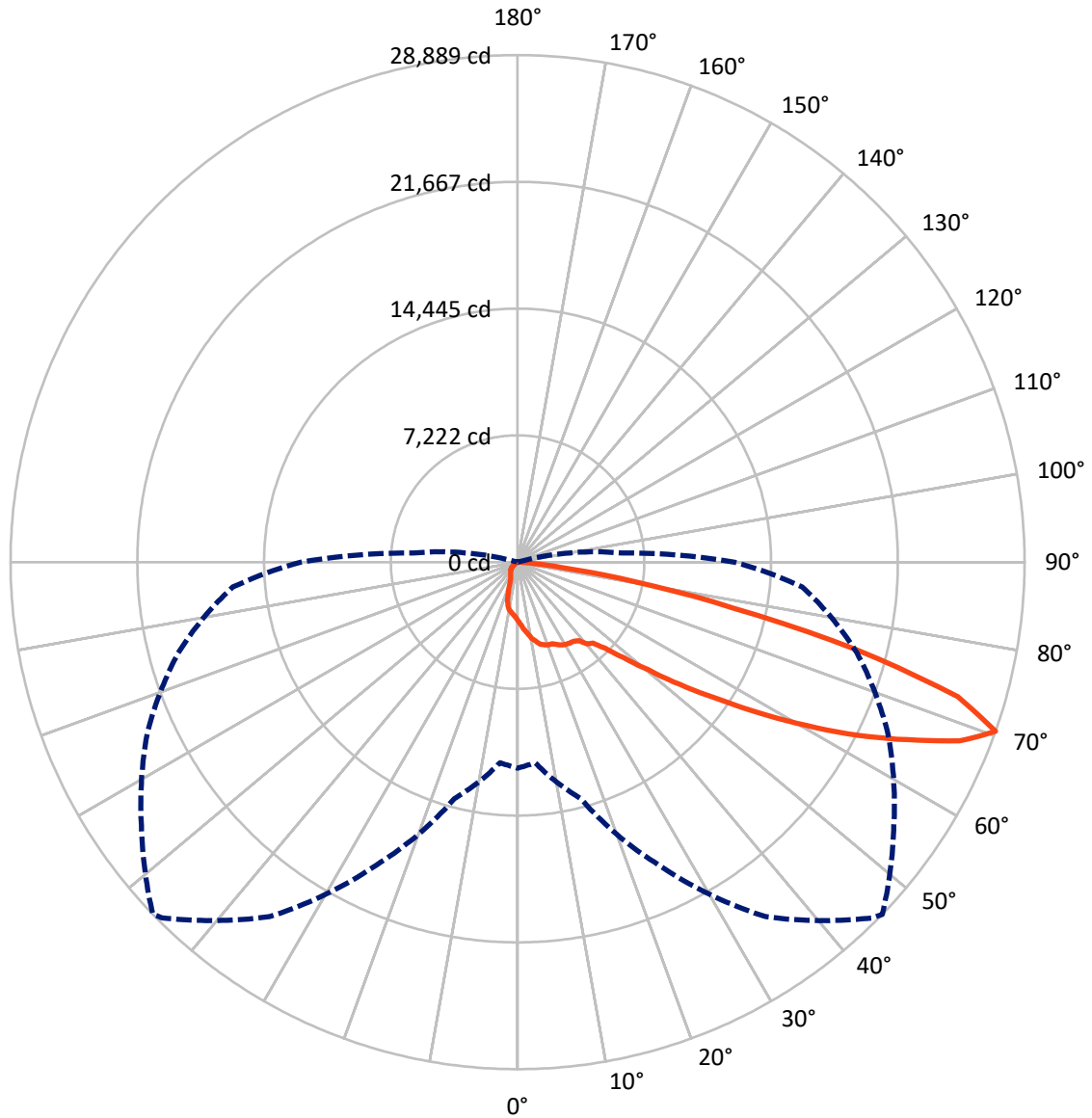
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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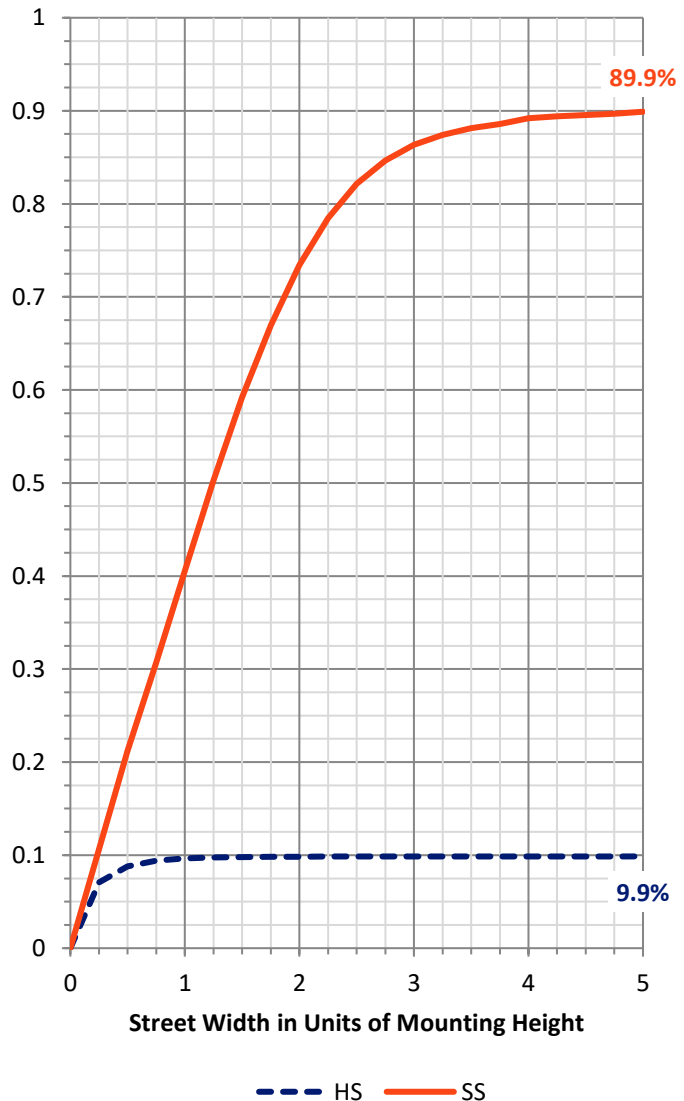
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3387.1	0.0	3387.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	30652.7	0.0	30652.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	34039.8	0.0	34039.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.2	1.0
10°-20°	1006.2	3.0
20°-30°	1611.8	4.7
30°-40°	2300.6	6.8
40°-50°	3972.5	11.7
50°-60°	7605.7	22.3
60°-70°	11262.8	33.1
70°-80°	5578.4	16.4
80°-90°	368.6	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°	34039.8	100.0
0°-180°	34039.8	100.0

**Coefficient of Utilization**

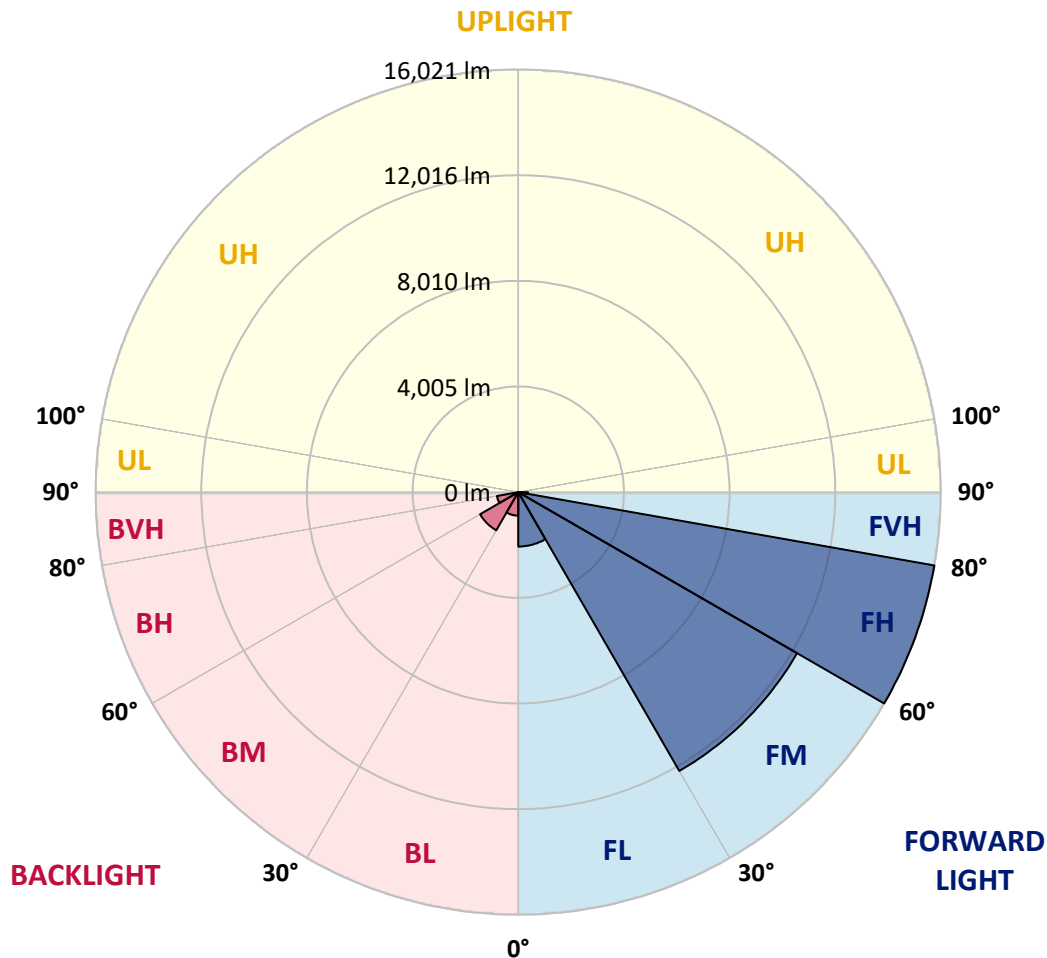


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.4	6.1			
FM (30°-60°)	12206.6	35.9			
FH (60°-80°)	16020.9	47.1			G5
FVH (80°-90°)	363.9	1.1			G3/500
BL (0°-30°)	889.8	2.6	B2/1000		
BM (30°-60°)	1672.2	4.9	B2/2500		
BH (60°-80°)	820.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.7	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°	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6
2.5°	3728.7	3704.2	3665.0	3650.3	3611.1	3591.5	3562.1	3547.4	3493.5	3439.6	3405.3
5°	4184.4	4125.6	4145.2	4086.4	3959.0	3856.1	3851.2	3738.5	3616.0	3518.0	3385.7
7.5°	4645.0	4596.0	4522.5	4439.2	4297.1	4145.2	4101.1	3993.3	3821.8	3650.3	3473.9
10°	4992.9	4958.6	4894.9	4777.3	4581.3	4409.8	4414.7	4233.4	4052.1	3856.1	3616.0
12.5°	5208.5	5223.2	5130.1	5012.5	4841.0	4625.4	4620.5	4498.0	4292.2	4086.4	3802.2
15°	5424.0	5477.9	5335.9	5198.7	4978.2	4821.4	4850.8	4703.8	4502.9	4267.7	3954.1
17.5°	5458.3	5473.0	5443.6	5242.8	5081.1	4948.8	4953.7	4855.7	4703.8	4449.0	4179.5
20°	5399.5	5389.7	5355.5	5208.5	5100.7	5022.3	5027.2	5002.7	4919.4	4713.6	4346.1
22.5°	5228.1	5228.1	5184.0	5086.0	5037.0	5110.5	5051.7	5144.8	5056.6	4934.1	4630.3
25°	5090.9	5144.8	5120.3	5056.6	5076.2	5174.2	5203.6	5291.8	5277.1	5125.2	4826.3
27.5°	5237.9	5174.2	5188.9	5115.4	5188.9	5335.9	5350.6	5414.2	5409.3	5286.9	5002.7
30°	5335.9	5394.6	5282.0	5120.3	5198.7	5448.5	5438.7	5522.0	5561.2	5414.2	5169.3
32.5°	5649.4	5600.4	5507.3	5291.8	5301.6	5443.6	5487.7	5595.5	5620.0	5531.8	5331.0
35°	6291.3	6217.8	5811.1	5487.7	5438.7	5507.3	5536.7	5747.4	5791.5	5693.5	5502.4
37.5°	7281.1	7114.5	6624.5	5909.1	5688.6	5673.9	5673.9	5953.2	6119.8	5894.4	5757.2
40°	8697.1	8461.9	7932.7	6688.2	6016.9	6075.7	6134.5	6286.4	6266.8	6119.8	6090.4
42.5°	10500.2	10318.9	9745.6	7996.4	6644.1	6350.1	6301.1	6506.9	6815.6	6756.8	6737.2
45°	12004.4	12014.2	11646.8	9789.7	7726.9	6982.2	7016.5	7173.3	7692.6	7648.5	7643.6
47.5°	13102.0	12964.8	12910.9	11519.4	9304.7	8182.6	8133.6	8241.4	8917.6	9196.9	9324.3
50°	14101.5	14008.4	13881.1	13200.0	11200.9	9686.9	9637.9	9647.7	10681.5	11073.5	11387.1
52.5°	15341.2	15458.8	15037.4	14620.9	13655.7	11641.9	11588.0	11396.9	12680.6	13219.6	13592.0
55°	16869.9	16649.4	16174.1	16389.7	16002.7	13753.7	13655.7	13430.3	14959.0	15184.4	15576.4
57.5°	17208.0	17041.4	17531.4	18295.8	18668.1	16232.9	16193.7	15787.1	16874.8	16669.0	17776.4
60°	18050.8	18094.9	18775.9	20294.9	20941.6	19094.4	18903.3	18188.0	18731.8	18771.0	19951.9
62.5°	18918.0	18815.1	20339.0	21799.1	22793.7	21804.0	21740.3	20319.4	20936.7	20437.0	22000.0
65°	18281.1	18437.8	20618.2	23063.2	25194.6	24454.8	24400.9	22372.4	22710.4	22088.2	22832.9
67.5°	16017.4	15698.9	18751.4	22485.1	26429.4	27232.9	27174.1	24611.6	23710.0	22078.4	21103.3
70°	11739.9	11465.5	13954.6	19040.5	24660.6	28653.9	28889.1	26169.7	23303.3	20020.5	16281.9
72.5°	5752.3	5757.2	7820.0	12910.9	19510.9	26115.8	26233.4	23994.2	20020.5	14758.1	9221.4
75°	1700.2	1719.8	2895.8	6330.5	12612.0	19834.3	19966.6	18212.5	13876.2	7624.0	3145.7
77.5°	622.3	622.3	960.4	2376.4	6291.3	12518.9	12509.1	11181.3	7026.3	2582.2	735.0
80°	323.4	338.1	499.8	970.2	2724.3	6521.6	6766.6	5473.0	2670.4	1087.7	215.6
82.5°	132.3	147.0	274.4	499.8	1308.2	2288.2	2503.8	2146.1	1161.2	759.5	98.0
85°	39.2	44.1	132.3	279.3	514.5	573.3	637.0	720.3	730.1	588.0	44.1
87.5°	4.9	4.9	53.9	93.1	112.7	122.5	142.1	142.1	372.4	411.6	24.5
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°	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6	3341.6
2.5°	3366.1	3341.6	3302.4	3214.3	3194.7	3131.0	3126.1	3067.3	3086.9	3047.7	3033.0
5°	3341.6	3287.7	3180.0	3111.4	3042.8	2998.7	2969.3	2944.8	2939.9	2920.3	2910.5
7.5°	3385.7	3312.2	3145.7	3037.9	2920.3	2881.1	2817.4	2812.5	2778.2	2743.9	2743.9
10°	3532.7	3400.4	3219.2	3037.9	2886.0	2758.6	2611.6	2503.8	2464.6	2376.4	2386.2
12.5°	3650.3	3532.7	3268.1	3082.0	2851.7	2562.6	2239.2	1989.3	1871.7	1759.0	1803.1
15°	3816.9	3645.4	3361.2	3091.8	2719.4	2219.6	1690.4	1411.1	1303.3	1278.8	1273.9
17.5°	3998.2	3816.9	3478.8	3067.3	2449.9	1714.9	1244.5	1082.8	1102.4	1131.8	1126.9
20°	4199.1	3978.6	3567.0	2984.0	2023.6	1244.5	1019.2	1014.3	1043.7	1087.7	1097.5
22.5°	4409.8	4218.7	3674.8	2734.1	1509.1	999.6	980.0	980.0	999.6	1053.5	1043.7
25°	4645.0	4390.2	3728.7	2347.0	1082.8	921.2	931.0	950.6	960.4	1004.5	1009.4
27.5°	4826.3	4581.3	3743.4	1881.5	882.0	852.6	877.1	901.6	916.3	950.6	965.3
30°	4992.9	4821.4	3665.0	1401.3	808.5	793.8	803.6	837.9	867.3	896.7	896.7
32.5°	5203.6	4958.6	3483.7	994.7	764.4	739.9	735.0	749.7	784.0	818.3	818.3
35°	5419.1	5188.9	3194.7	798.7	725.2	690.9	671.3	656.6	671.3	695.8	715.4
37.5°	5732.7	5536.7	2832.1	735.0	695.8	646.8	607.6	573.3	548.8	543.9	558.6
40°	6178.6	5928.7	2366.6	690.9	661.5	602.7	543.9	485.1	431.2	396.9	401.8
42.5°	6854.8	6506.9	1861.9	666.4	637.0	553.7	470.4	387.1	318.5	284.2	284.2
45°	7820.0	7271.3	1367.0	641.9	607.6	494.9	387.1	289.1	220.5	200.9	205.8
47.5°	9275.3	8192.4	980.0	602.7	568.4	431.2	303.8	205.8	161.7	151.9	156.8
50°	11176.4	9285.1	764.4	558.6	519.4	362.6	225.4	151.9	127.4	122.5	127.4
52.5°	13170.6	10387.5	671.3	519.4	445.9	289.1	166.6	122.5	107.8	102.9	107.8
55°	14875.7	11098.0	583.1	460.6	357.7	215.6	132.3	107.8	93.1	78.4	78.4
57.5°	16600.4	11455.7	460.6	382.2	264.6	161.7	112.7	93.1	78.4	63.7	58.8
60°	18001.8	11710.5	328.3	284.2	186.2	127.4	98.0	83.3	63.7	49.0	44.1
62.5°	18922.9	10980.4	240.1	215.6	137.2	107.8	83.3	68.6	49.0	34.3	34.3
65°	18467.2	9971.0	186.2	151.9	102.9	83.3	68.6	49.0	34.3	19.6	14.7
67.5°	16571.0	8123.8	151.9	112.7	78.4	63.7	53.9	39.2	19.6	4.9	4.9
70°	12362.1	5953.2	122.5	83.3	63.7	49.0	39.2	24.5	9.8	4.9	0.0
72.5°	6761.7	3258.3	98.0	68.6	49.0	39.2	29.4	19.6	9.8	0.0	0.0
75°	2234.3	867.3	73.5	49.0	29.4	24.5	19.6	14.7	4.9	0.0	0.0
77.5°	539.0	225.4	58.8	44.1	24.5	14.7	9.8	4.9	4.9	0.0	0.0
80°	166.6	93.1	44.1	29.4	19.6	14.7	4.9	0.0	0.0	0.0	0.0
82.5°	68.6	44.1	19.6	19.6	14.7	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.3	24.5	14.7	9.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	24.5	9.8	4.9	4.9	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)