

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: P483532

Luminaire Tested: **IFLD-L-SA8D-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483532  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

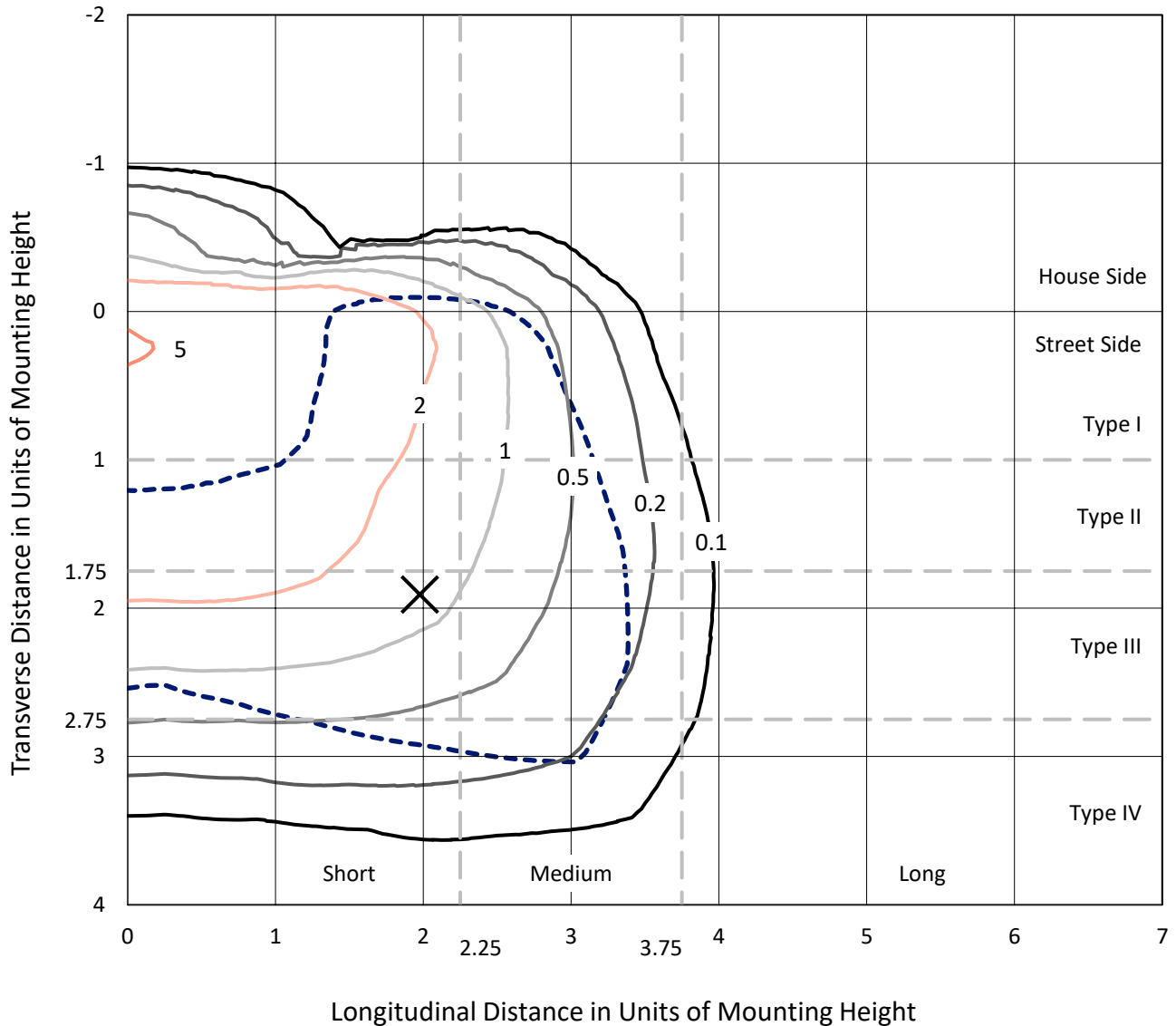
Lumens per Lamp: N/A  
Luminaire Lumens: 34399.2 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3  
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

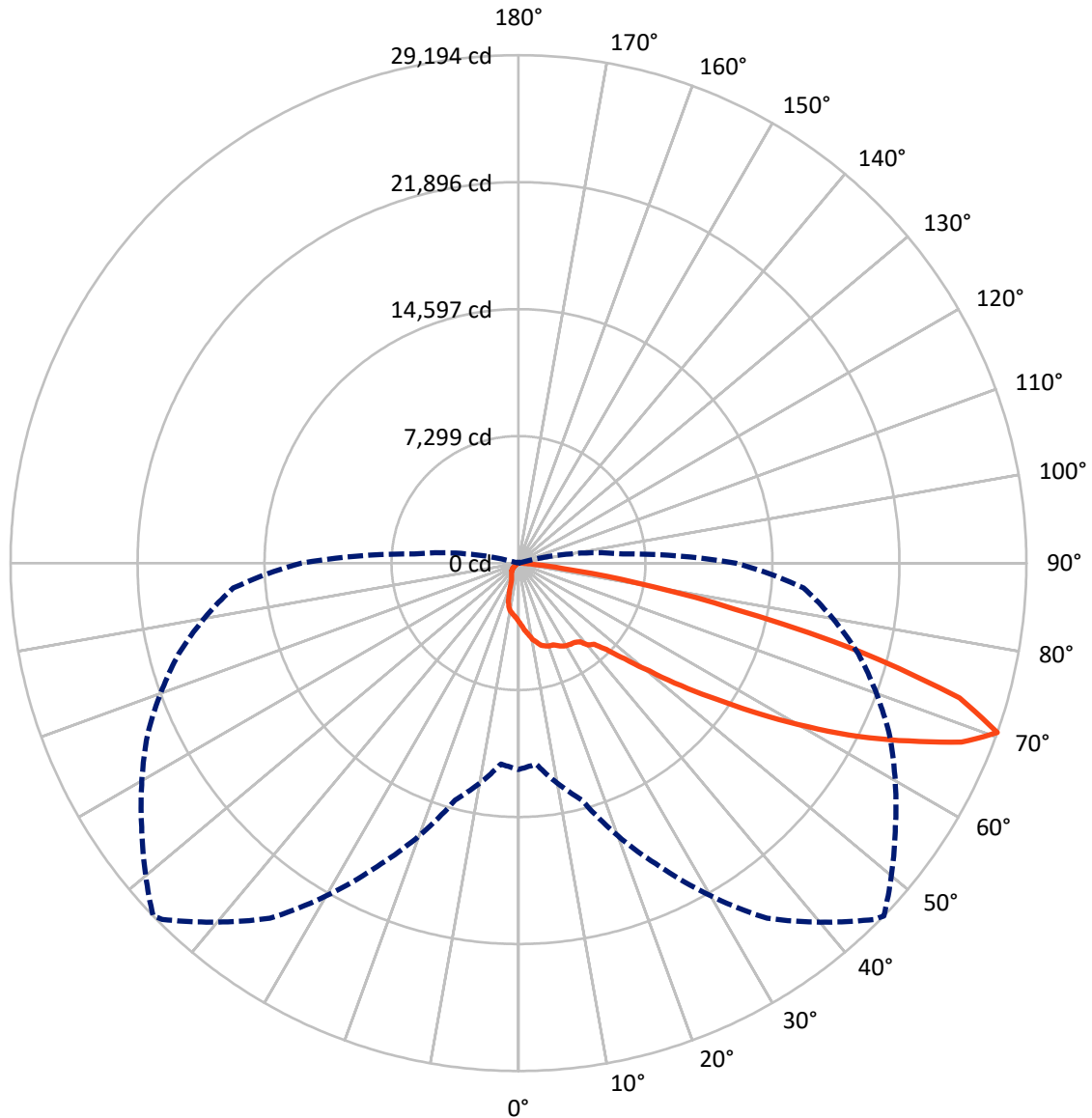
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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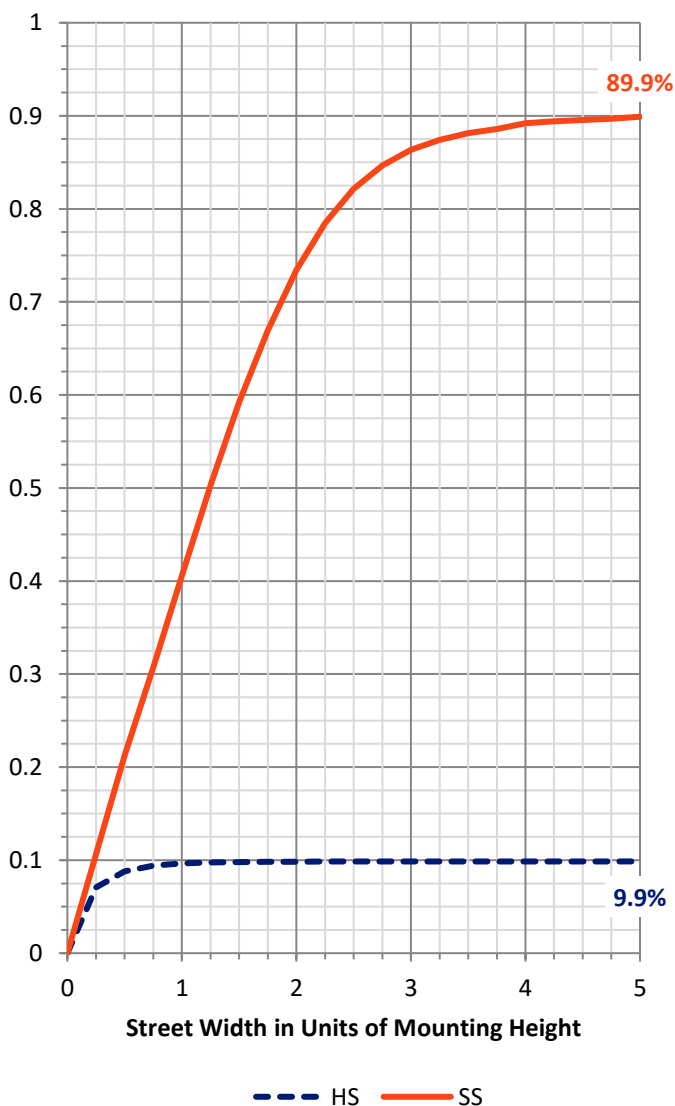
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3422.8	0.0	3422.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	30976.4	0.0	30976.4
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	34399.2	0.0	34399.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	1.0
10°-20°	1016.9	3.0
20°-30°	1628.8	4.7
30°-40°	2324.9	6.8
40°-50°	4014.4	11.7
50°-60°	7686.0	22.3
60°-70°	11381.8	33.1
70°-80°	5637.3	16.4
80°-90°	372.5	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°	34399.2	100.0
0°-180°	34399.2	100.0

**Coefficient of Utilization**

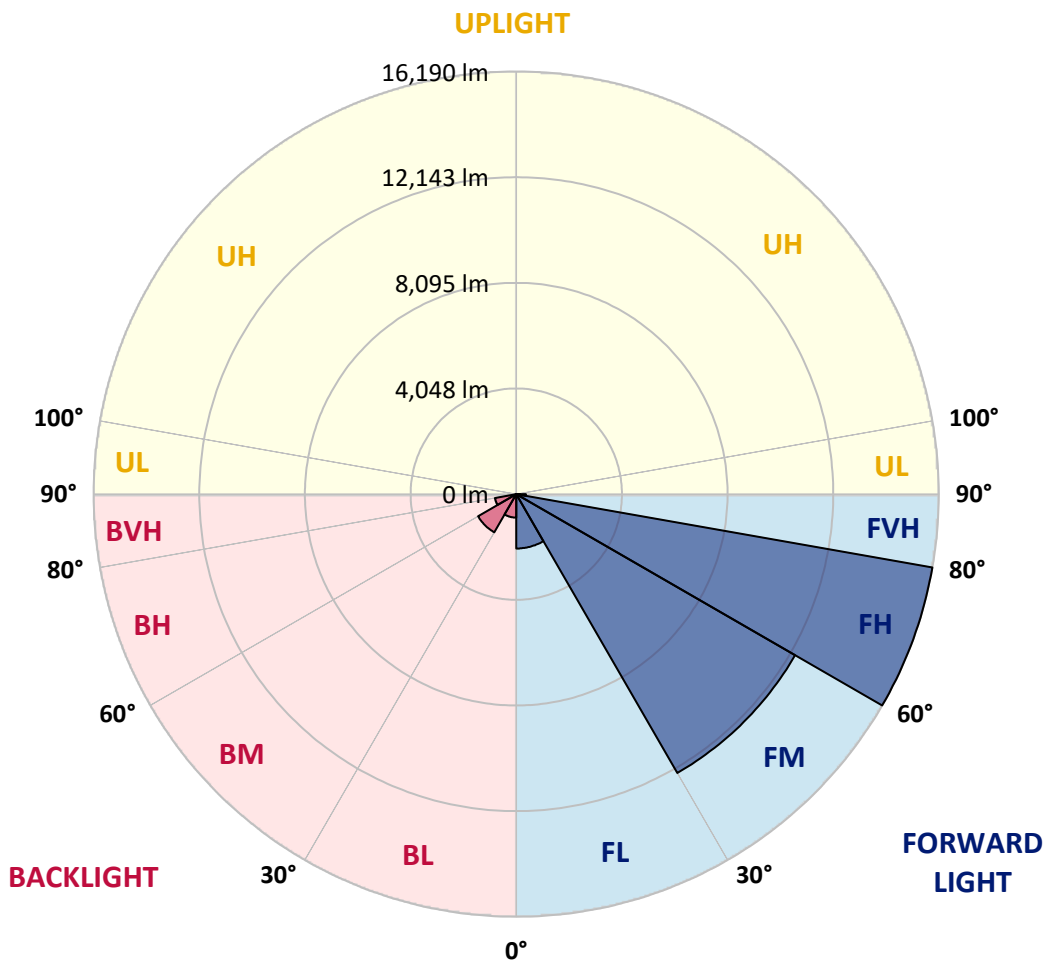


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.1	6.1			
FM (30°-60°)	12335.5	35.9			
FH (60°-80°)	16190.0	47.1			G5
FVH (80°-90°)	367.8	1.1			G3/500
BL (0°-30°)	899.2	2.6	B2/1000		
BM (30°-60°)	1689.9	4.9	B2/2500		
BH (60°-80°)	829.0	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°	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9
2.5°	3768.1	3743.3	3703.7	3688.9	3649.3	3629.5	3599.7	3584.9	3530.4	3476.0	3441.3
5°	4228.6	4169.2	4189.0	4129.6	4000.8	3896.8	3891.9	3778.0	3654.2	3555.2	3421.5
7.5°	4694.0	4644.5	4570.2	4486.1	4342.5	4189.0	4144.4	4035.5	3862.2	3688.9	3510.6
10°	5045.6	5010.9	4946.6	4827.7	4629.7	4456.4	4461.3	4278.1	4094.9	3896.8	3654.2
12.5°	5263.5	5278.3	5184.2	5065.4	4892.1	4674.2	4669.3	4545.5	4337.5	4129.6	3842.4
15°	5481.3	5535.8	5392.2	5253.6	5030.7	4872.3	4902.0	4753.4	4550.4	4312.8	3995.9
17.5°	5516.0	5530.8	5501.1	5298.1	5134.7	5001.0	5006.0	4906.9	4753.4	4496.0	4223.6
20°	5456.6	5446.7	5412.0	5263.5	5154.5	5075.3	5080.2	5055.5	4971.3	4763.4	4392.0
22.5°	5283.3	5283.3	5238.7	5139.7	5090.2	5164.4	5105.0	5199.1	5110.0	4986.2	4679.2
25°	5144.6	5199.1	5174.3	5110.0	5129.8	5228.8	5258.5	5347.6	5332.8	5179.3	4877.2
27.5°	5293.2	5228.8	5243.6	5169.4	5243.6	5392.2	5407.0	5471.4	5466.5	5342.7	5055.5
30°	5392.2	5451.6	5337.7	5174.3	5253.6	5506.1	5496.2	5580.4	5620.0	5471.4	5223.8
32.5°	5709.1	5659.6	5565.5	5347.6	5357.5	5501.1	5545.7	5654.6	5679.4	5590.3	5387.2
35°	6357.7	6283.5	5872.5	5545.7	5496.2	5565.5	5595.2	5808.1	5852.7	5753.7	5560.5
37.5°	7357.9	7189.6	6694.4	5971.5	5748.7	5733.8	5733.8	6016.1	6184.4	5956.7	5818.0
40°	8788.9	8551.3	8016.5	6758.8	6080.5	6139.9	6199.3	6352.8	6333.0	6184.4	6154.7
42.5°	10611.1	10427.9	9848.6	8080.9	6714.2	6417.2	6367.6	6575.6	6887.6	6828.1	6808.3
45°	12131.2	12141.1	11769.7	9893.1	7808.5	7055.9	7090.6	7249.0	7773.9	7729.3	7724.4
47.5°	13240.3	13101.7	13047.2	11641.0	9402.9	8269.0	8219.5	8328.4	9011.7	9294.0	9422.7
50°	14250.4	14156.4	14027.6	13339.4	11319.2	9789.1	9739.6	9749.5	10794.3	11190.4	11507.3
52.5°	15503.2	15622.0	15196.2	14775.3	13799.9	11764.8	11710.3	11517.2	12814.5	13359.2	13735.5
55°	17048.0	16825.2	16344.9	16562.8	16171.6	13898.9	13799.9	13572.1	15117.0	15344.7	15740.9
57.5°	17389.7	17221.4	17716.5	18488.9	18865.3	16404.4	16364.7	15953.8	17053.0	16845.0	17964.1
60°	18241.4	18285.9	18974.2	20509.2	21162.8	19296.0	19102.9	18380.0	18929.6	18969.2	20162.5
62.5°	19117.8	19013.8	20553.7	22029.3	23034.4	22034.2	21969.9	20533.9	21157.8	20652.7	22232.3
65°	18474.1	18632.5	20836.0	23306.8	25460.7	24713.0	24658.5	22608.6	22950.2	22321.4	23074.0
67.5°	16186.5	15864.6	18949.4	22722.5	26708.4	27520.5	27461.1	24871.4	23960.4	22311.5	21326.2
70°	11863.8	11586.5	14101.9	19241.6	24921.0	28956.4	29194.1	26446.0	23549.4	20231.9	16453.9
72.5°	5813.1	5818.0	7902.6	13047.2	19716.9	26391.5	26510.4	24247.5	20231.9	14913.9	9318.7
75°	1718.2	1738.0	2926.3	6397.4	12745.2	20043.7	20177.4	18404.8	14022.7	7704.5	3178.9
77.5°	628.8	628.8	970.5	2401.5	6357.7	12651.1	12641.2	11299.3	7100.5	2609.4	742.7
80°	326.8	341.7	505.1	980.4	2753.0	6590.5	6838.0	5530.8	2698.6	1099.2	217.9
82.5°	133.7	148.5	277.3	505.1	1322.1	2312.4	2530.2	2168.8	1173.5	767.5	99.0
85°	39.6	44.6	133.7	282.2	519.9	579.3	643.7	727.9	737.8	594.2	44.6
87.5°	5.0	5.0	54.5	94.1	113.9	123.8	143.6	143.6	376.3	415.9	24.8
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°	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9	3376.9
2.5°	3401.7	3376.9	3337.3	3248.2	3228.4	3164.0	3159.1	3099.6	3119.5	3079.8	3065.0
5°	3376.9	3322.5	3213.5	3144.2	3074.9	3030.3	3000.6	2975.9	2970.9	2951.1	2941.2
7.5°	3421.5	3347.2	3178.9	3069.9	2951.1	2911.5	2847.1	2842.2	2807.5	2772.8	2772.8
10°	3570.0	3436.3	3253.1	3069.9	2916.4	2787.7	2639.2	2530.2	2490.6	2401.5	2411.4
12.5°	3688.9	3570.0	3302.7	3114.5	2881.8	2589.6	2262.8	2010.3	1891.5	1777.6	1822.2
15°	3857.2	3683.9	3396.7	3124.4	2748.1	2243.0	1708.3	1426.0	1317.1	1292.3	1287.4
17.5°	4040.4	3857.2	3515.6	3099.6	2475.8	1733.0	1257.7	1094.3	1114.1	1143.8	1138.8
20°	4243.4	4020.6	3604.7	3015.5	2045.0	1257.7	1029.9	1025.0	1054.7	1099.2	1109.1
22.5°	4456.4	4263.3	3713.6	2762.9	1525.1	1010.1	990.3	990.3	1010.1	1064.6	1054.7
25°	4694.0	4436.6	3768.1	2371.8	1094.3	930.9	940.8	960.6	970.5	1015.1	1020.0
27.5°	4877.2	4629.7	3783.0	1901.4	891.3	861.6	886.3	911.1	925.9	960.6	975.4
30°	5045.6	4872.3	3703.7	1416.1	817.0	802.1	812.0	846.7	876.4	906.1	906.1
32.5°	5258.5	5010.9	3520.5	1005.2	772.4	747.7	742.7	757.6	792.2	826.9	826.9
35°	5476.4	5243.6	3228.4	807.1	732.8	698.2	678.4	663.5	678.4	703.1	722.9
37.5°	5793.3	5595.2	2862.0	742.7	703.1	653.6	614.0	579.3	554.6	549.6	564.5
40°	6243.9	5991.3	2391.6	698.2	668.5	609.0	549.6	490.2	435.7	401.1	406.0
42.5°	6927.2	6575.6	1881.6	673.4	643.7	559.5	475.3	391.2	321.8	287.2	287.2
45°	7902.6	7348.0	1381.5	648.6	614.0	500.1	391.2	292.1	222.8	203.0	208.0
47.5°	9373.2	8278.9	990.3	609.0	574.4	435.7	307.0	208.0	163.4	153.5	158.4
50°	11294.4	9383.1	772.4	564.5	524.9	366.4	227.8	153.5	128.7	123.8	128.7
52.5°	13309.7	10497.2	678.4	524.9	450.6	292.1	168.4	123.8	108.9	104.0	108.9
55°	15032.8	11215.2	589.2	465.4	361.5	217.9	133.7	108.9	94.1	79.2	79.2
57.5°	16775.7	11576.6	465.4	386.2	267.4	163.4	113.9	94.1	79.2	64.4	59.4
60°	18191.8	11834.1	331.8	287.2	188.2	128.7	99.0	84.2	64.4	49.5	44.6
62.5°	19122.7	11096.3	242.6	217.9	138.6	108.9	84.2	69.3	49.5	34.7	34.7
65°	18662.2	10076.3	188.2	153.5	104.0	84.2	69.3	49.5	34.7	19.8	14.9
67.5°	16746.0	8209.6	153.5	113.9	79.2	64.4	54.5	39.6	19.8	5.0	5.0
70°	12492.7	6016.1	123.8	84.2	64.4	49.5	39.6	24.8	9.9	5.0	0.0
72.5°	6833.1	3292.8	99.0	69.3	49.5	39.6	29.7	19.8	9.9	0.0	0.0
75°	2257.9	876.4	74.3	49.5	29.7	24.8	19.8	14.9	5.0	0.0	0.0
77.5°	544.7	227.8	59.4	44.6	24.8	14.9	9.9	5.0	5.0	0.0	0.0
80°	168.4	94.1	44.6	29.7	19.8	14.9	5.0	0.0	0.0	0.0	0.0
82.5°	69.3	44.6	19.8	19.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	24.8	14.9	9.9	9.9	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	9.9	5.0	5.0	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)