

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: P479016

Luminaire Tested: **IFLD-S-SA3C-760-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479016  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-760-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

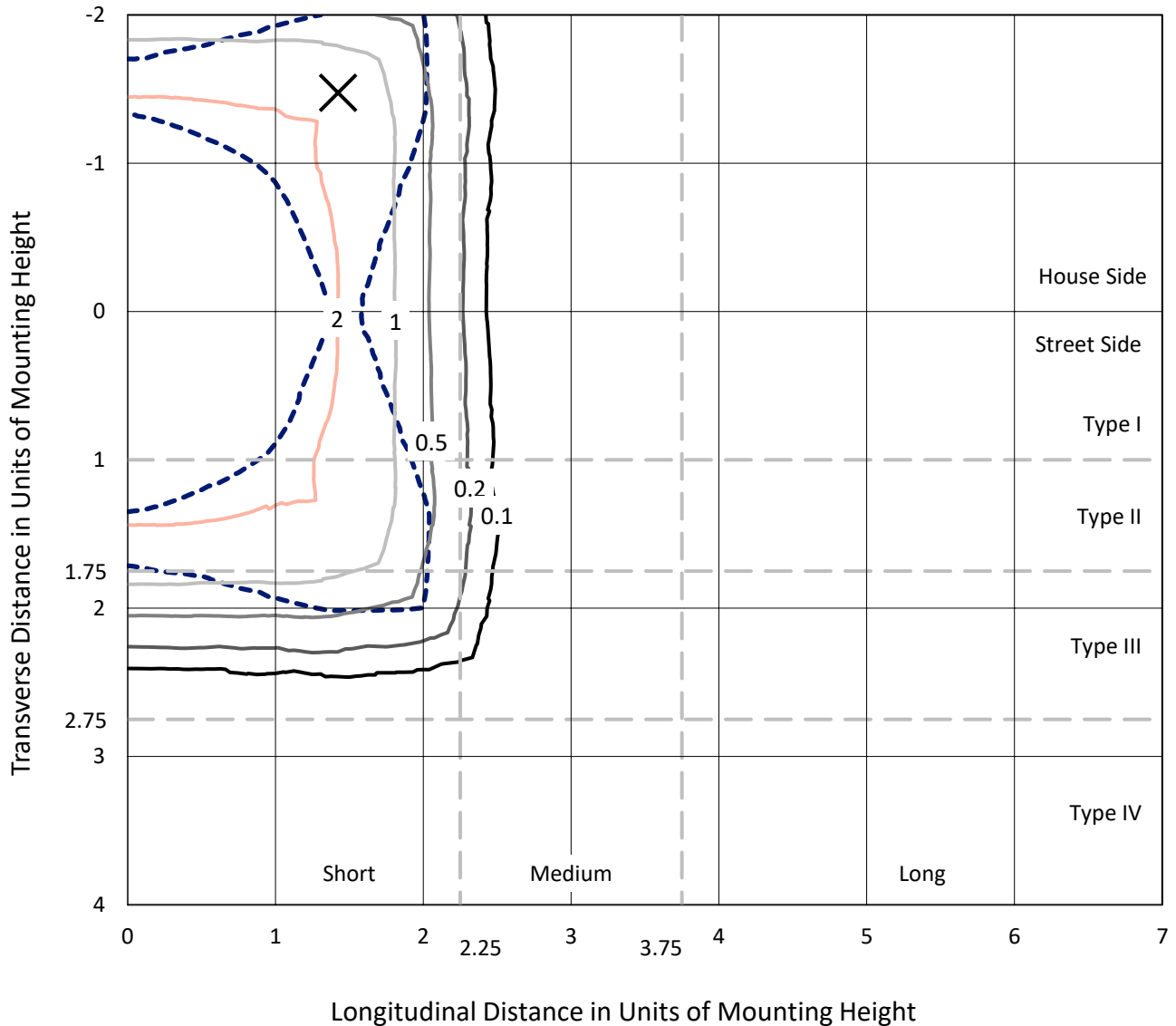
Lumens per Lamp: N/A  
Luminaire Lumens: 21610.1 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

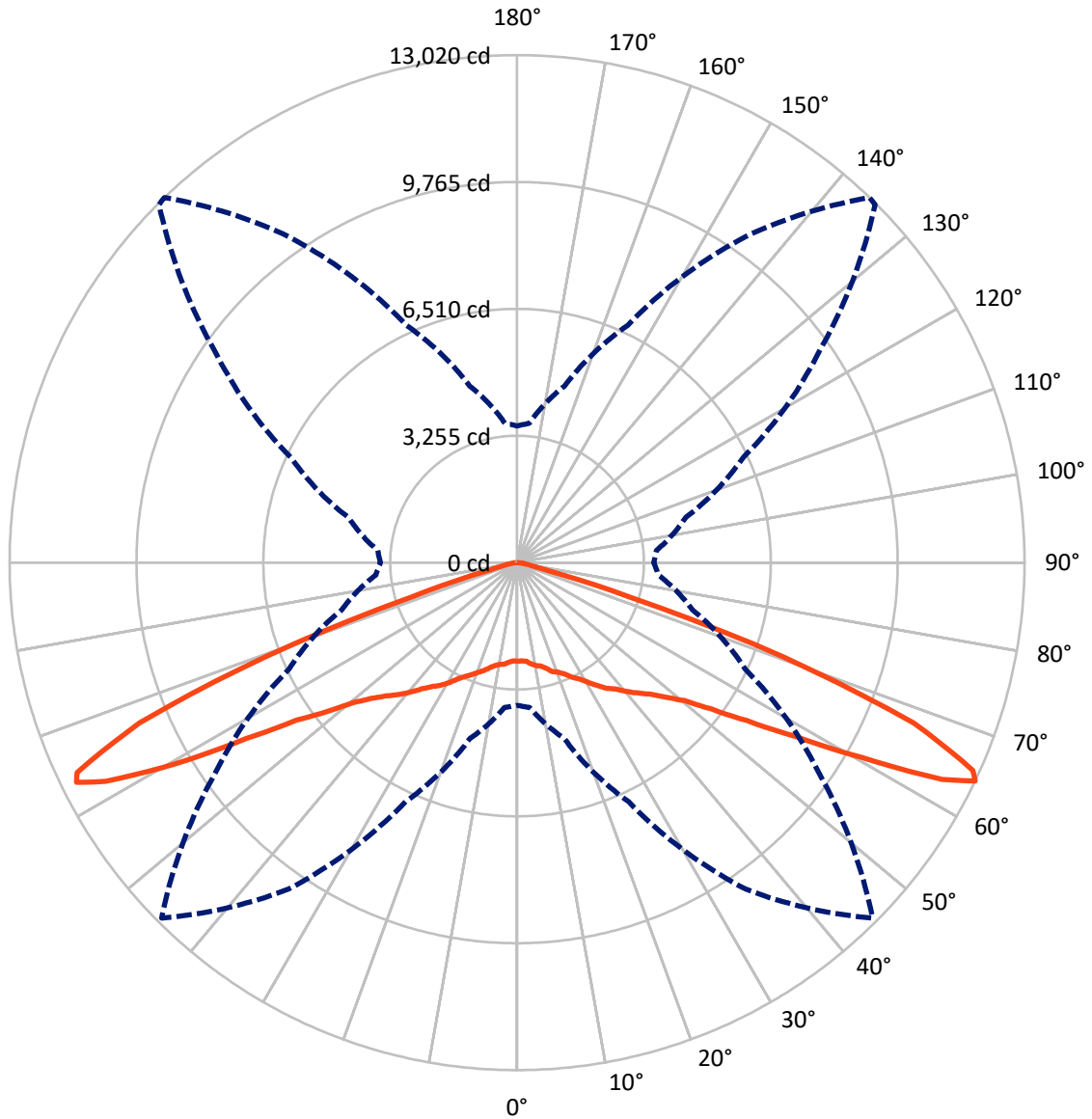
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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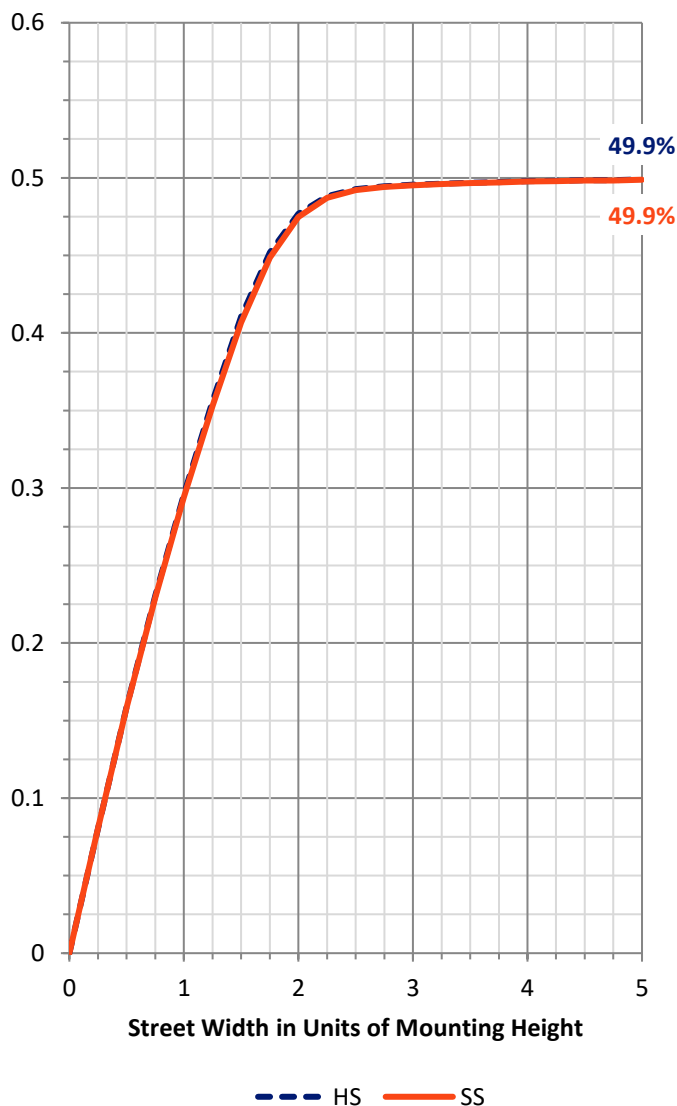
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10815.4	0.0	10815.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10794.8	0.0	10794.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21610.1	0.0	21610.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.6	1.2
10°-20°	801.2	3.7
20°-30°	1505.9	7.0
30°-40°	2483.4	11.5
40°-50°	3883.9	18.0
50°-60°	6275.5	29.0
60°-70°	5650.6	26.1
70°-80°	669.3	3.1
80°-90°	91.6	0.4
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°	21610.1	100.0
0°-180°	21610.1	100.0

**Coefficient of Utilization**



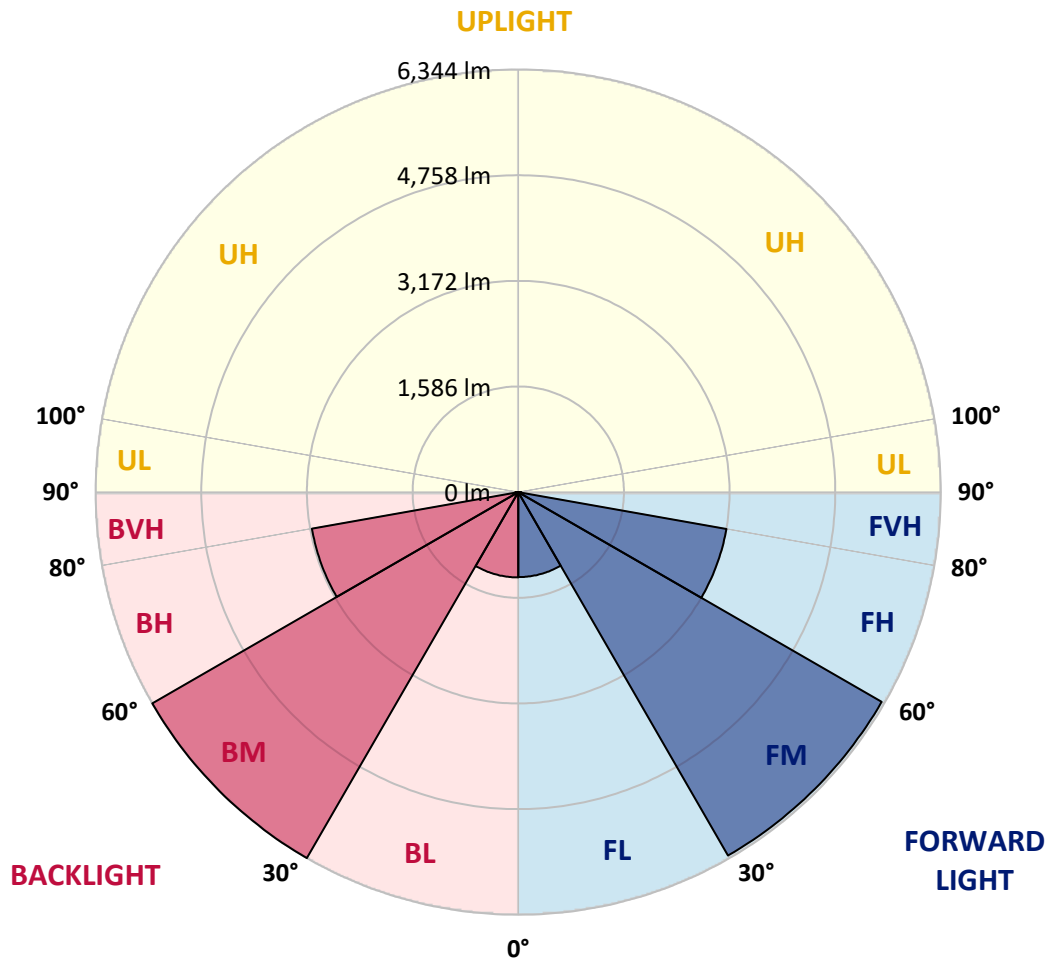
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.4	5.9			
FM (30°-60°)	6298.7	29.1			
FH (60°-80°)	3173.7	14.7			G2/5000
FVH (80°-90°)	47.0	0.2			G1/100
BL (0°-30°)	1280.3	5.9	B3/2500		
BM (30°-60°)	6344.1	29.4	B4/8500		
BH (60°-80°)	3146.3	14.6	B4/5000		G2/5000
BVH (80°-90°)	44.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2500.4	2505.3	2549.9	2532.6	2547.4	2520.2	2540.0	2582.1	2532.6	2569.8	2582.1
5°	2527.6	2535.1	2535.1	2552.4	2562.3	2557.4	2569.8	2552.4	2599.5	2579.7	2609.4
7.5°	2626.7	2614.4	2594.5	2609.4	2611.9	2624.3	2636.7	2659.0	2651.5	2634.2	2663.9
10°	2644.1	2634.2	2663.9	2666.4	2654.0	2644.1	2656.5	2656.5	2678.8	2683.7	2683.7
12.5°	2673.8	2683.7	2681.3	2701.1	2703.6	2696.1	2716.0	2753.1	2743.2	2750.7	2733.3
15°	2787.8	2775.4	2773.0	2792.8	2825.0	2777.9	2812.6	2810.1	2800.2	2815.1	2775.4
17.5°	2886.9	2847.3	2864.6	2896.9	2884.5	2894.4	2939.0	2899.3	2909.2	2891.9	2879.5
20°	2973.7	2941.5	2943.9	2956.3	2956.3	2986.1	3003.4	2988.5	2978.6	2976.2	2981.1
22.5°	3070.3	3033.1	3035.6	3087.7	3105.0	3095.1	3082.7	3107.5	3112.4	3092.6	3114.9
25°	3142.2	3181.8	3194.2	3219.0	3181.8	3209.1	3199.2	3246.3	3276.0	3236.4	3263.6
27.5°	3330.5	3313.2	3345.4	3342.9	3372.6	3345.4	3362.7	3377.6	3390.0	3392.5	3380.1
30°	3499.0	3506.5	3474.2	3561.0	3491.6	3536.2	3565.9	3573.4	3588.2	3588.2	3551.1
32.5°	3677.4	3662.6	3714.6	3694.8	3682.4	3717.1	3684.9	3786.5	3727.0	3761.7	3719.6
35°	3878.2	3878.2	3898.0	3952.5	3878.2	3855.9	3915.3	3957.5	3957.5	3895.5	3910.4
37.5°	4103.7	4083.8	4108.6	4178.0	4121.0	4046.7	4155.7	4173.1	4160.7	4143.3	4113.6
40°	4262.3	4257.3	4306.9	4398.6	4316.8	4301.9	4321.7	4368.8	4383.7	4401.0	4361.4
42.5°	4529.9	4552.2	4695.9	4673.6	4606.7	4554.7	4549.7	4725.7	4683.5	4638.9	4616.6
45°	4926.4	4906.6	4980.9	4983.4	4896.7	4782.7	4807.4	4968.5	5040.4	4941.3	4978.4
47.5°	5241.1	5251.0	5303.1	5409.6	5208.9	5089.9	5181.6	5441.8	5419.5	5382.4	5417.0
50°	5662.4	5707.0	5870.5	5833.4	5654.9	5508.7	5709.5	5954.8	5982.0	5845.8	5821.0
52.5°	6244.7	6314.1	6403.3	6433.1	6262.1	6210.0	6222.4	6527.2	6460.3	6329.0	6244.7
55°	6755.2	6787.4	6951.0	7196.3	7183.9	6933.6	7077.3	7191.3	6918.8	6648.6	6670.9
57.5°	6973.3	6988.1	7444.1	7934.8	8227.2	8284.2	8120.6	7736.5	7087.3	6566.9	6534.7
60°	6430.6	6571.8	7122.0	8229.6	9565.3	10224.5	9136.6	7798.5	6693.2	6061.3	6014.3
62.5°	5139.5	5146.9	5964.7	7644.8	10398.0	12125.2	9525.7	7216.1	5642.5	4926.4	4738.1
64°	3660.1	3729.5	4668.7	6767.6	10224.5	12898.3	9478.6	6455.4	4651.3	3635.3	3504.0
65°	2626.7	2723.4	3630.4	5875.5	9818.1	12806.6	9337.3	5801.1	3761.7	2775.4	2641.6
67.5°	966.4	1006.1	1424.9	2939.0	7050.1	10913.4	7399.5	3189.3	1652.9	1177.1	1058.1
70°	448.5	451.0	527.8	971.4	3082.7	7297.9	3531.2	1196.9	622.0	493.1	458.4
72.5°	329.6	337.0	369.2	448.5	907.0	3090.1	1159.7	490.7	364.3	322.1	314.7
75°	267.6	272.6	282.5	324.6	418.8	827.7	470.8	339.5	289.9	260.2	250.3
77.5°	205.7	205.7	228.0	247.8	277.5	386.6	312.2	270.1	235.4	205.7	198.2
80°	148.7	151.2	178.4	193.3	188.3	255.2	225.5	223.0	193.3	161.1	148.7
82.5°	86.7	94.2	128.9	138.8	133.8	151.2	163.6	173.5	151.2	111.5	101.6
85°	49.6	52.0	74.3	76.8	76.8	71.9	94.2	104.1	101.6	69.4	62.0
87.5°	14.9	14.9	19.8	19.8	22.3	24.8	37.2	44.6	49.6	34.7	32.2
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2569.8	2532.6	2535.1	2545.0	2512.8	2525.1	2562.3	2535.1	2527.6	2512.8	2505.3
5°	2557.4	2597.0	2582.1	2587.1	2579.7	2545.0	2540.0	2562.3	2574.7	2552.4	2597.0
7.5°	2644.1	2626.7	2606.9	2614.4	2597.0	2626.7	2646.6	2602.0	2624.3	2611.9	2587.1
10°	2693.7	2661.4	2676.3	2671.4	2659.0	2688.7	2668.9	2663.9	2644.1	2616.8	2656.5
12.5°	2711.0	2748.2	2773.0	2730.8	2738.3	2723.4	2711.0	2711.0	2688.7	2681.3	2688.7
15°	2787.8	2820.0	2810.1	2842.3	2800.2	2815.1	2829.9	2792.8	2812.6	2758.1	2800.2
17.5°	2929.1	2901.8	2936.5	2894.4	2909.2	2939.0	2891.9	2891.9	2906.8	2877.0	2839.9
20°	3018.3	3005.9	2993.5	2996.0	2971.2	2998.5	2983.6	2976.2	2953.9	2963.8	2983.6
22.5°	3102.5	3085.2	3090.1	3097.6	3114.9	3102.5	3095.1	3102.5	3048.0	3097.6	3028.2
25°	3206.6	3253.7	3238.8	3271.0	3221.5	3253.7	3251.2	3204.1	3233.9	3214.0	3199.2
27.5°	3380.1	3355.3	3377.6	3338.0	3372.6	3375.1	3345.4	3424.7	3390.0	3385.0	3375.1
30°	3603.1	3585.8	3570.9	3548.6	3575.8	3553.5	3578.3	3585.8	3553.5	3528.8	3481.7
32.5°	3729.5	3776.6	3793.9	3739.4	3741.9	3754.3	3732.0	3709.7	3729.5	3736.9	3729.5
35°	3907.9	3952.5	3962.4	3920.3	3898.0	3959.9	3915.3	3989.7	3925.3	3927.7	3860.8
37.5°	4116.1	4128.5	4212.7	4165.6	4145.8	4116.1	4197.8	4187.9	4202.8	4083.8	4143.3
40°	4351.5	4396.1	4443.2	4324.2	4321.7	4349.0	4344.0	4401.0	4373.8	4356.4	4314.3
42.5°	4609.2	4703.4	4710.8	4631.5	4581.9	4577.0	4601.8	4728.1	4730.6	4616.6	4567.1
45°	4951.2	5055.2	5028.0	4874.4	4819.8	4812.4	4933.8	4988.3	5035.4	4990.8	4948.7
47.5°	5377.4	5446.8	5427.0	5285.7	5109.8	5159.3	5278.3	5449.3	5399.7	5340.2	5290.7
50°	5833.4	5915.1	5873.0	5731.8	5563.3	5563.3	5709.5	5927.5	5912.7	5796.2	5751.6
52.5°	6338.9	6457.8	6554.5	6353.8	6212.5	6234.8	6465.3	6544.6	6507.4	6425.6	6388.4
55°	6715.6	6943.5	7141.8	7151.7	7159.1	7156.6	7216.1	7295.4	7030.3	6898.9	6765.1
57.5°	6623.9	7055.0	7734.0	8195.0	8331.2	8403.1	8383.3	8016.5	7389.6	6958.4	7003.0
60°	5969.7	6673.4	7768.7	9248.1	10239.4	10140.2	9778.4	8328.8	7191.3	6462.8	6371.1
62.5°	4762.8	5610.3	7186.4	9545.5	12276.3	12246.6	10353.3	7607.7	5992.0	5070.1	5013.1
64°	3588.2	4480.3	6410.7	9468.7	12990.0	13019.7	10207.1	6720.5	4688.5	3588.2	3501.5
65°	2745.7	3573.4	5650.0	9310.1	12836.4	12853.7	9800.7	5803.6	3563.5	2547.4	2453.3
67.5°	1092.8	1521.5	3065.4	7060.0	11022.4	10975.3	6993.1	2807.6	1362.9	887.1	869.8
70°	465.9	579.9	1075.5	3345.4	7379.7	7243.4	3010.8	911.9	505.5	423.7	421.3
72.5°	319.7	354.4	460.9	1033.4	3067.8	2996.0	857.4	423.7	344.5	317.2	317.2
75°	257.7	282.5	334.5	433.7	812.8	783.1	403.9	312.2	275.1	255.2	252.8
77.5°	200.7	225.5	262.7	299.8	371.7	369.2	270.1	235.4	213.1	198.2	193.3
80°	158.6	183.4	208.2	213.1	242.9	237.9	183.4	185.9	173.5	143.7	141.2
82.5°	109.0	148.7	166.0	151.2	143.7	143.7	131.3	131.3	121.4	89.2	81.8
85°	66.9	99.1	104.1	89.2	66.9	66.9	71.9	69.4	64.4	47.1	44.6
87.5°	34.7	47.1	42.1	34.7	22.3	22.3	19.8	14.9	14.9	12.4	12.4
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)