

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: P484768

Luminaire Tested: **IFLD-M-SA4B-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484768  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

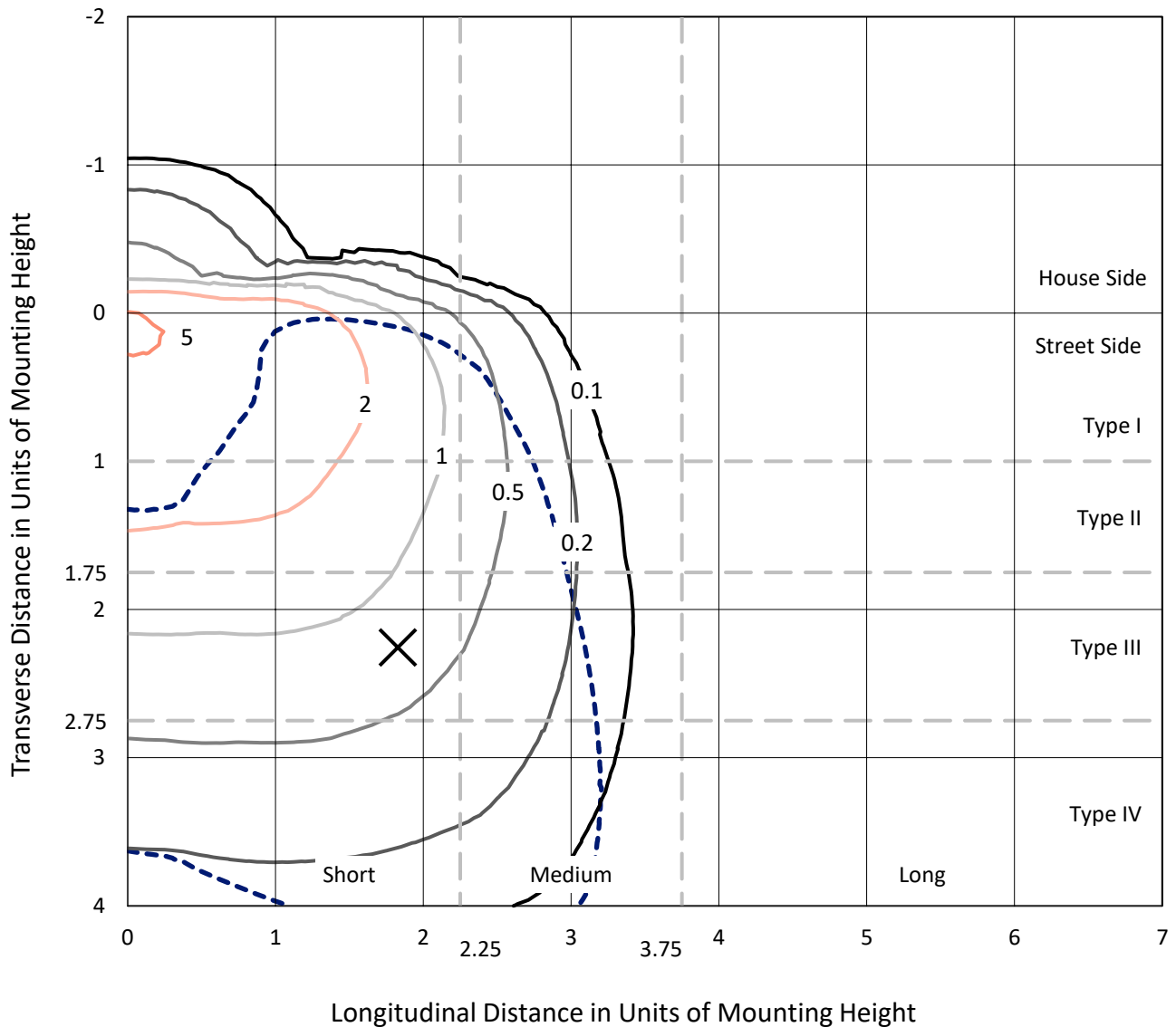
Lumens per Lamp: N/A  
Luminaire Lumens: 18609.6 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 166.1  
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

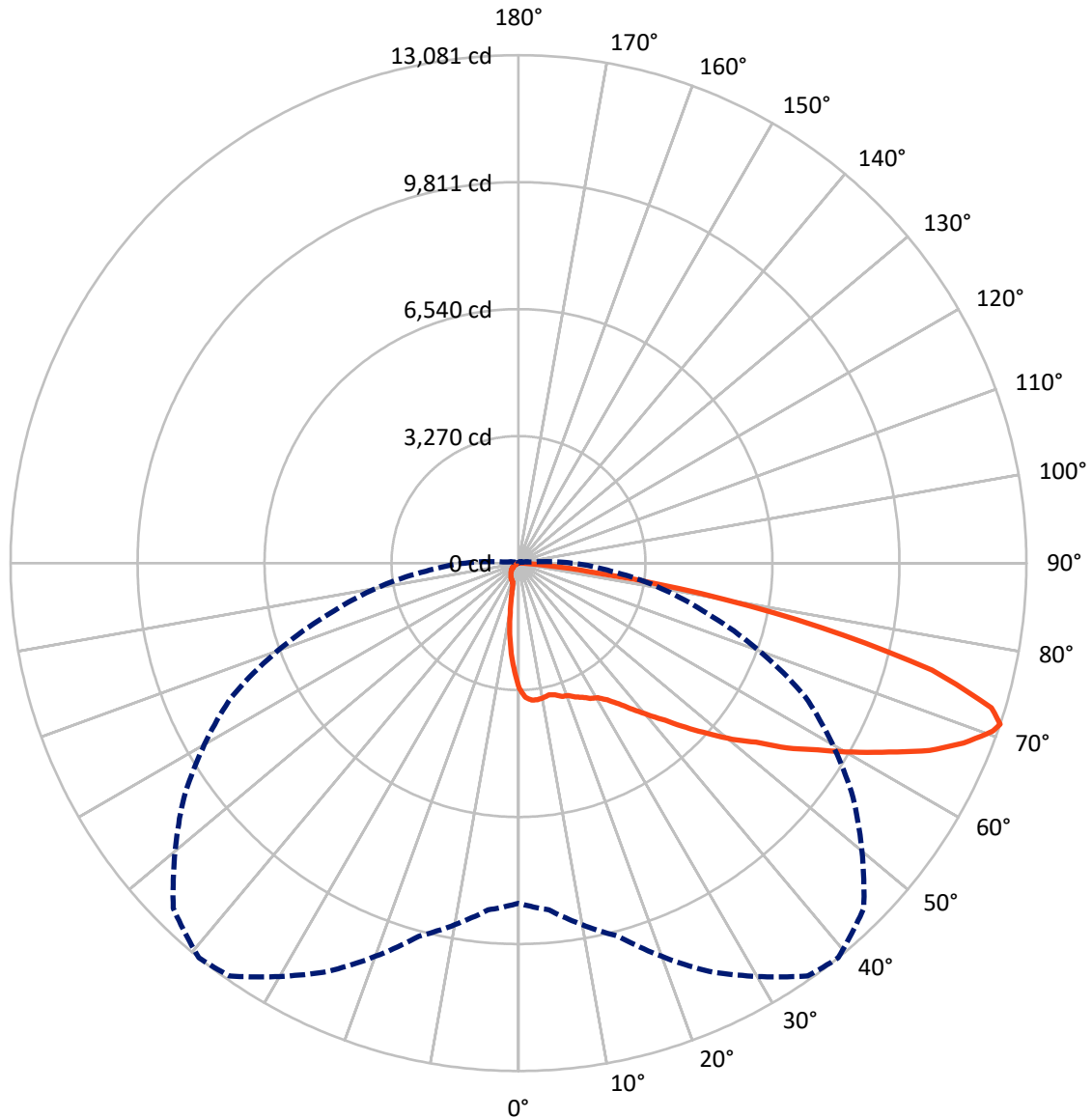
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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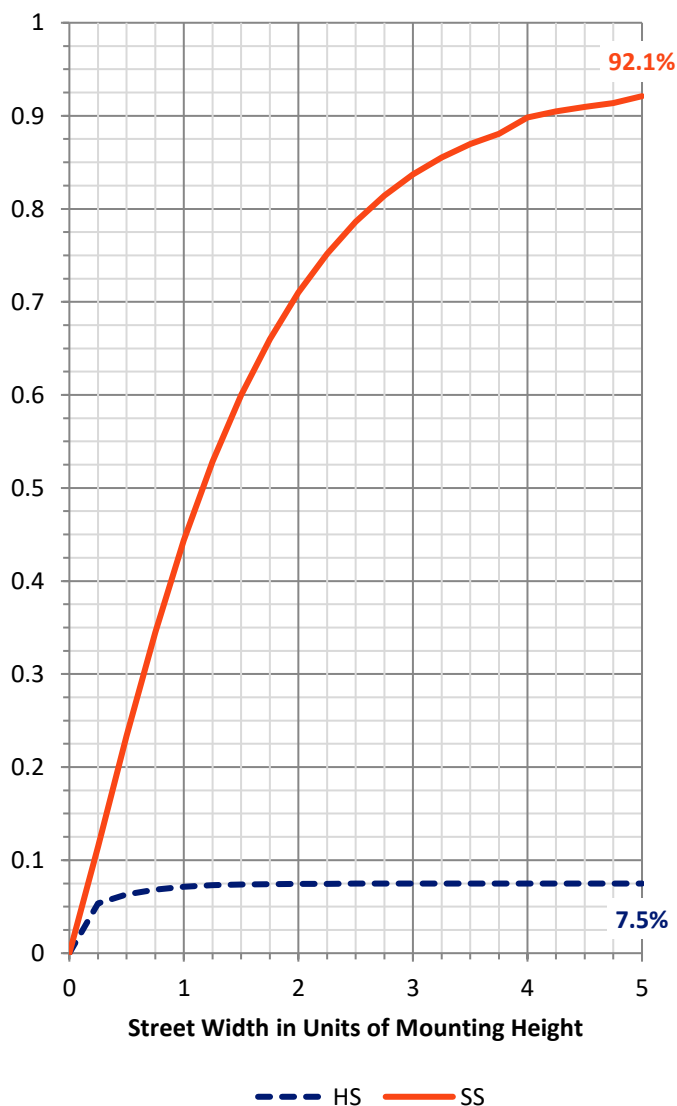
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1401.0	0.0	1401.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17208.6	0.0	17208.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	18609.6	0.0	18609.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.8	1.5
10°-20°	666.6	3.6
20°-30°	1070.1	5.8
30°-40°	1638.0	8.8
40°-50°	2629.3	14.1
50°-60°	3862.0	20.8
60°-70°	4864.0	26.1
70°-80°	3246.1	17.4
80°-90°	362.8	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°	18609.6	100.0
0°-180°	18609.6	100.0

**Coefficient of Utilization**



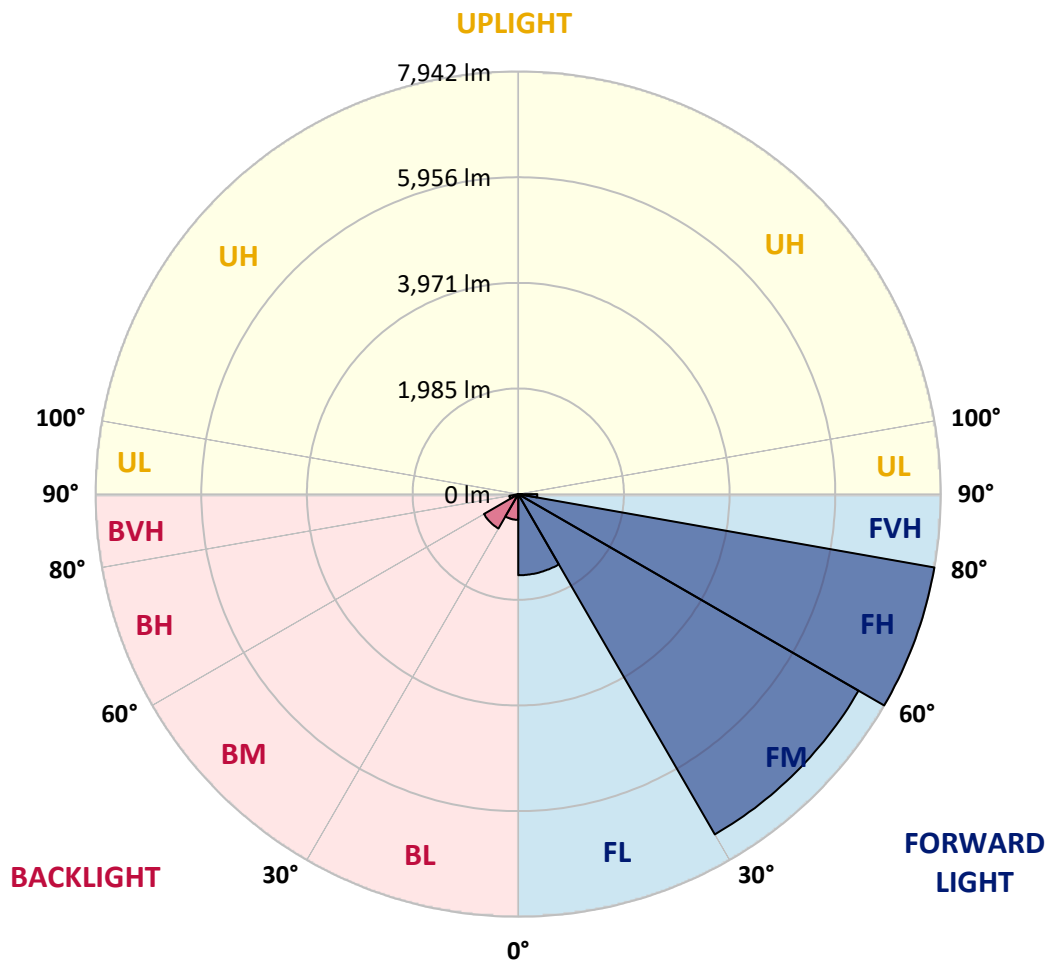
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.7	8.2			
FM (30°-60°)	7384.6	39.7			
FH (60°-80°)	7941.5	42.7			G4/12000
FVH (80°-90°)	358.8	1.9			G3/500
BL (0°-30°)	483.7	2.6	B1/500		
BM (30°-60°)	744.7	4.0	B1/1000		
BH (60°-80°)	168.6	0.9	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1
2.5°	3490.5	3524.7	3490.5	3475.9	3461.2	3463.7	3424.6	3431.9	3385.6	3324.5	3275.7
5°	3600.4	3646.8	3610.1	3593.0	3590.6	3544.2	3524.7	3478.3	3422.2	3327.0	3268.4
7.5°	3590.6	3580.8	3597.9	3583.3	3551.6	3551.6	3529.6	3463.7	3407.5	3300.1	3200.1
10°	3517.4	3546.7	3532.0	3514.9	3522.3	3524.7	3483.2	3436.8	3419.7	3312.3	3148.8
12.5°	3510.1	3461.2	3514.9	3517.4	3485.6	3483.2	3478.3	3466.1	3412.4	3314.8	3161.0
15°	3485.6	3466.1	3519.8	3522.3	3529.6	3522.3	3529.6	3519.8	3466.1	3410.0	3214.7
17.5°	3505.2	3483.2	3558.9	3595.5	3578.4	3612.6	3600.4	3556.4	3510.1	3444.2	3266.0
20°	3510.1	3541.8	3624.8	3639.4	3693.1	3637.0	3634.5	3588.2	3558.9	3488.1	3297.7
22.5°	3600.4	3615.0	3717.5	3749.3	3751.7	3744.4	3683.4	3629.7	3617.5	3529.6	3305.0
25°	3737.1	3788.3	3834.7	3854.2	3861.6	3827.4	3763.9	3695.6	3666.3	3610.1	3380.7
27.5°	3978.7	3947.0	3988.5	4017.8	3934.8	3947.0	3866.4	3807.9	3766.4	3717.5	3468.6
30°	4193.5	4164.2	4166.7	4161.8	4091.0	4025.1	4003.1	3900.6	3849.3	3868.9	3605.3
32.5°	4386.4	4322.9	4376.6	4352.2	4220.4	4200.8	4183.8	4054.4	4064.1	4154.5	3810.3
35°	4564.5	4542.6	4586.5	4542.6	4454.7	4449.8	4432.7	4320.4	4374.1	4503.5	4161.8
37.5°	4728.1	4735.4	4789.1	4767.1	4774.5	4779.3	4769.6	4650.0	4803.8	5094.2	4571.9
40°	4879.4	4869.7	5001.5	5069.8	5084.5	5138.2	5138.2	5108.9	5345.6	5672.7	5140.6
42.5°	5040.5	5064.9	5235.8	5350.5	5489.7	5536.0	5599.5	5614.1	5980.3	6353.7	5721.5
45°	5304.1	5262.6	5479.9	5750.8	5872.9	6036.4	6134.1	6217.0	6658.9	7171.5	6302.5
47.5°	5638.5	5555.6	5746.0	6138.9	6422.1	6556.3	6732.1	6841.9	7274.0	7803.7	6851.7
50°	6009.6	5924.1	6016.9	6558.8	6888.3	7132.4	7357.0	7496.1	8018.5	8511.5	7252.0
52.5°	6429.4	6351.3	6365.9	6995.7	7481.5	7659.6	7955.0	8162.5	8682.4	8938.7	7393.6
55°	6876.1	6856.6	6810.2	7422.9	8001.4	8401.7	8579.9	8828.8	9363.4	9170.6	7547.4
57.5°	7325.2	7264.2	7330.1	7989.2	8836.2	9075.4	9321.9	9470.8	9741.8	9373.2	7488.8
60°	7747.5	7752.4	7845.2	8604.3	9546.5	9885.8	10107.9	10017.6	10129.9	9461.0	7354.5
62.5°	8103.9	8094.1	8328.5	9295.1	10486.2	10715.7	10881.7	10478.9	10310.5	9546.5	7120.2
65°	8423.7	8533.5	8902.1	10117.7	11369.9	11633.5	11533.4	10915.8	10486.2	9295.1	6461.1
67.5°	8665.3	8828.8	9468.4	10891.4	12180.2	12365.8	12226.6	11247.8	10278.8	8308.9	5262.6
70°	8806.9	8972.9	9873.6	11535.8	12827.1	12961.3	12634.3	10991.5	9068.1	6016.9	3283.1
71°	8762.9	8965.5	9951.7	11604.2	12980.9	13080.9	12573.2	10518.0	8155.1	5038.1	2394.6
72.5°	8365.1	8555.5	9627.0	11555.4	12795.4	12734.3	12097.3	9380.5	6419.6	3212.3	1237.6
75°	6146.3	6351.3	8262.5	9995.6	11421.1	11001.3	9790.6	6583.2	3349.0	983.7	361.3
77.5°	3060.9	3095.1	5128.4	7256.9	8377.3	7959.9	6561.2	3671.2	1252.2	290.5	180.6
80°	1410.9	1420.6	1923.5	3759.0	5064.9	4767.1	3676.0	1811.2	566.3	153.8	141.6
82.5°	961.7	976.4	1159.4	1557.3	2199.3	1855.1	1489.0	1159.4	324.6	92.8	139.1
85°	175.7	161.1	649.3	825.0	849.4	576.1	515.0	1003.2	122.0	53.7	122.0
87.5°	0.0	2.4	90.3	336.8	302.7	134.3	175.7	244.1	12.2	17.1	22.0
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°	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1	3239.1
2.5°	3234.2	3207.4	3117.1	3017.0	2926.7	2855.9	2765.6	2724.1	2658.2	2621.6	2619.1
5°	3187.9	3114.6	2958.4	2790.0	2602.0	2445.8	2272.5	2174.9	2062.6	2028.4	2021.1
7.5°	3109.7	3004.8	2775.3	2538.6	2250.5	1974.7	1762.4	1535.3	1396.2	1337.6	1315.7
10°	3060.9	2934.0	2621.6	2267.6	1864.9	1476.8	1179.0	937.3	810.4	749.4	734.7
12.5°	3060.9	2924.2	2497.1	2008.9	1474.3	1010.5	729.8	590.7	549.2	534.6	534.6
15°	3053.6	2904.7	2377.5	1742.8	1091.1	678.6	544.3	515.0	510.2	507.7	505.3
17.5°	3090.2	2870.5	2255.4	1457.2	771.3	534.6	500.4	495.5	490.6	490.6	485.7
20°	3117.1	2851.0	2109.0	1154.6	576.1	495.5	480.9	473.5	471.1	468.7	473.5
22.5°	3095.1	2821.7	1928.3	864.1	502.8	471.1	461.3	454.0	449.1	449.1	451.6
25°	3136.6	2794.9	1747.7	651.7	471.1	449.1	439.4	434.5	432.0	429.6	424.7
27.5°	3192.7	2807.1	1532.9	524.8	444.2	427.2	417.4	412.5	410.1	405.2	410.1
30°	3261.1	2804.6	1296.1	458.9	419.8	402.8	393.0	390.5	385.7	383.2	385.7
32.5°	3378.2	2868.1	1052.0	424.7	393.0	378.3	368.6	366.1	363.7	361.3	358.8
35°	3629.7	2946.2	822.6	397.9	368.6	351.5	344.2	339.3	336.8	334.4	332.0
37.5°	3939.7	3119.5	627.3	373.5	344.2	327.1	319.8	317.3	307.6	305.1	302.7
40°	4327.8	3305.0	483.3	346.6	322.2	305.1	297.8	290.5	278.3	273.4	268.5
42.5°	4811.1	3485.6	397.9	322.2	297.8	285.6	273.4	261.2	251.4	241.7	236.8
45°	5294.4	3695.6	349.1	300.2	278.3	263.6	253.9	236.8	219.7	205.0	202.6
47.5°	5697.1	3771.2	319.8	275.8	258.7	246.5	231.9	209.9	185.5	170.9	168.4
50°	5997.4	3727.3	290.5	251.4	236.8	224.6	205.0	178.2	153.8	139.1	134.3
52.5°	6055.9	3534.5	263.6	231.9	214.8	200.2	178.2	148.9	122.0	107.4	105.0
55°	6014.5	3214.7	241.7	214.8	195.3	173.3	148.9	119.6	95.2	80.6	78.1
57.5°	5929.0	2836.4	217.2	192.8	170.9	148.9	122.0	97.6	70.8	56.1	56.1
60°	5638.5	2321.3	192.8	168.4	146.5	126.9	100.1	70.8	48.8	36.6	34.2
62.5°	5233.4	1784.3	168.4	144.0	126.9	105.0	78.1	51.3	29.3	19.5	19.5
65°	4493.8	1249.8	141.6	119.6	105.0	85.4	58.6	31.7	17.1	7.3	7.3
67.5°	3414.9	773.8	117.2	100.1	90.3	68.3	41.5	19.5	7.3	2.4	0.0
70°	1960.1	402.8	92.8	80.6	70.8	51.3	29.3	9.8	4.9	0.0	0.0
71°	1369.4	297.8	83.0	70.8	63.5	46.4	24.4	7.3	2.4	0.0	0.0
72.5°	685.9	197.7	70.8	58.6	51.3	36.6	19.5	7.3	2.4	0.0	0.0
75°	244.1	126.9	48.8	39.1	36.6	26.9	12.2	4.9	2.4	0.0	0.0
77.5°	168.4	102.5	34.2	24.4	24.4	17.1	7.3	2.4	2.4	0.0	0.0
80°	153.8	56.1	22.0	14.6	12.2	9.8	4.9	2.4	0.0	0.0	0.0
82.5°	153.8	41.5	12.2	9.8	7.3	4.9	2.4	0.0	0.0	0.0	0.0
85°	107.4	22.0	7.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	7.3	4.9	2.4	2.4	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)