

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: P479108

Luminaire Tested: **IFLD-S-SA6B-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479108  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

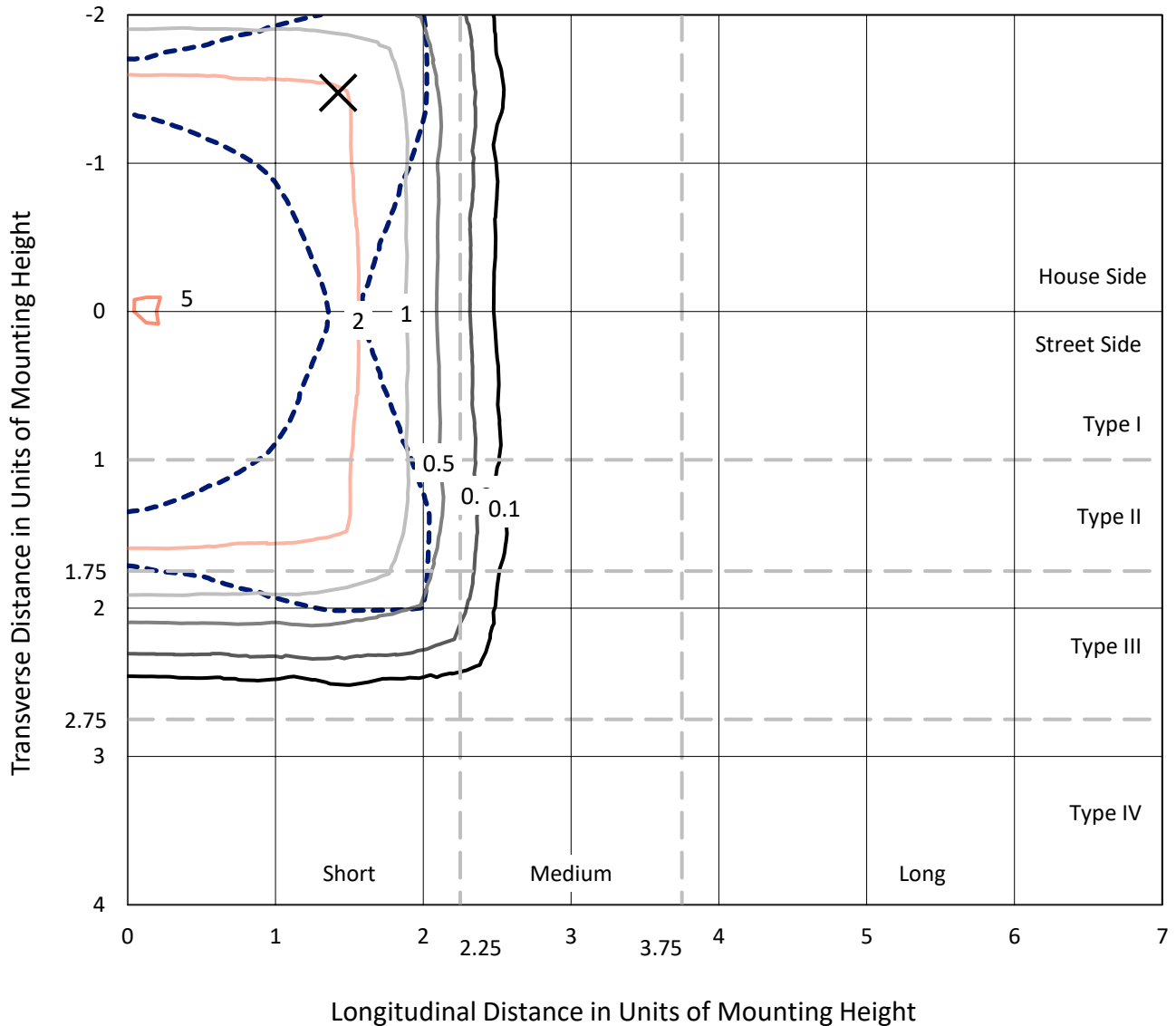
Lumens per Lamp: N/A  
Luminaire Lumens: 26453.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 244.9  
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

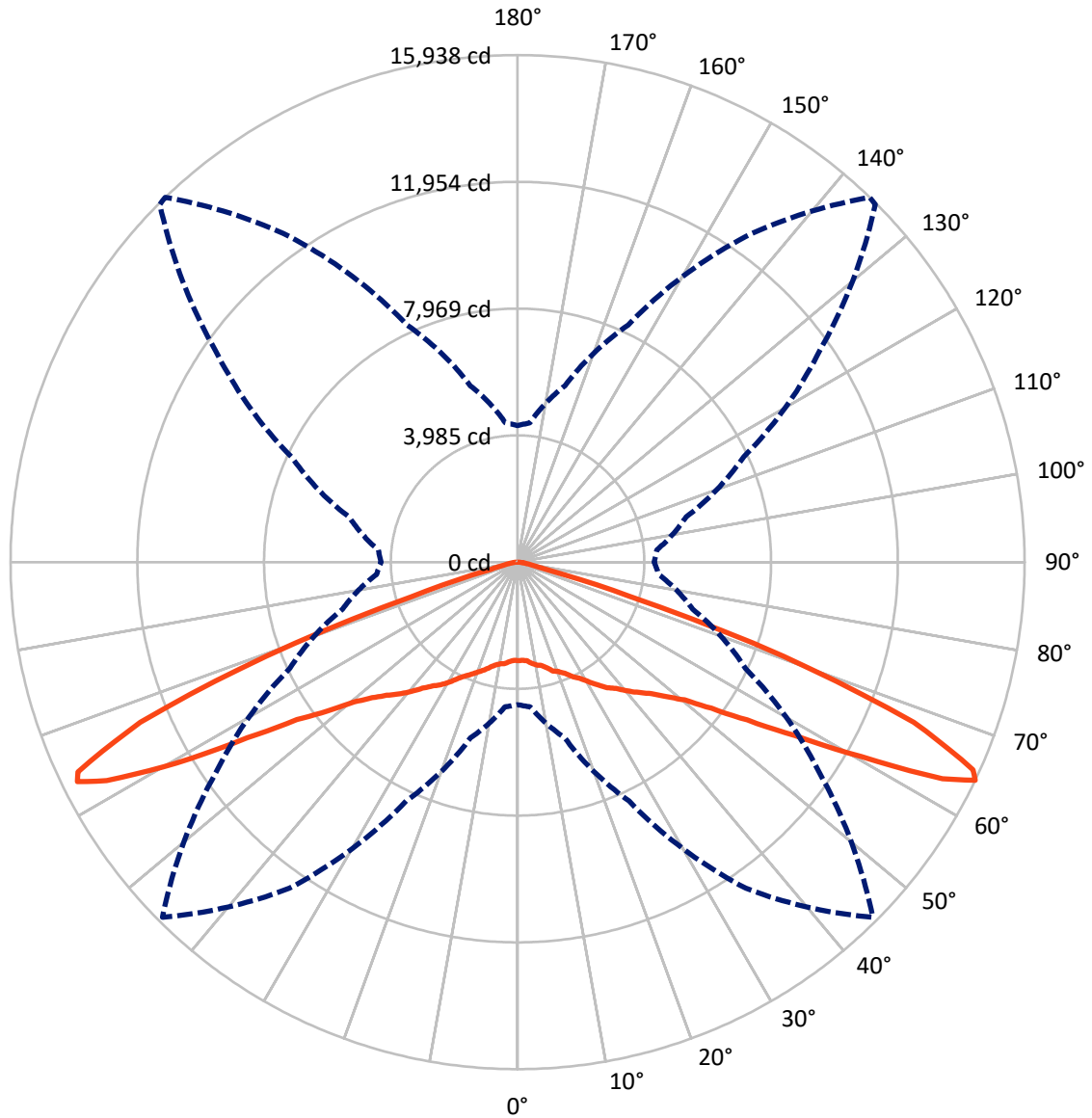
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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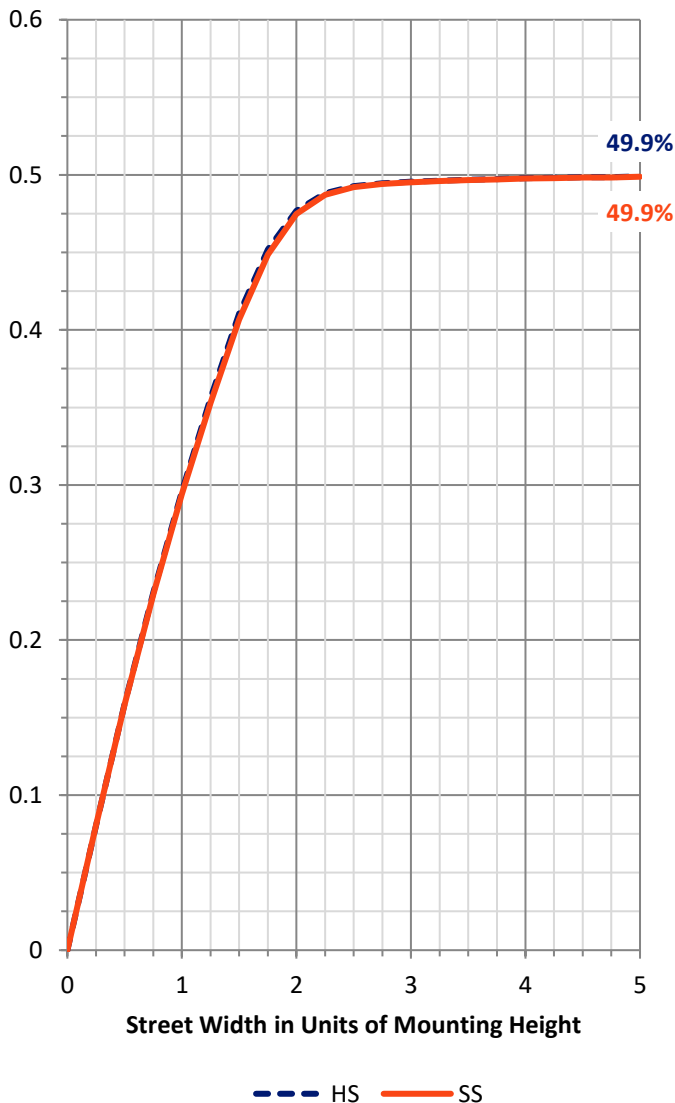
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13239.5	0.0	13239.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13214.3	0.0	13214.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26453.8	0.0	26453.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.3	1.2
10°-20°	980.8	3.7
20°-30°	1843.4	7.0
30°-40°	3040.1	11.5
40°-50°	4754.5	18.0
50°-60°	7682.1	29.0
60°-70°	6917.2	26.1
70°-80°	819.4	3.1
80°-90°	112.2	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°	26453.8	100.0
0°-180°	26453.8	100.0



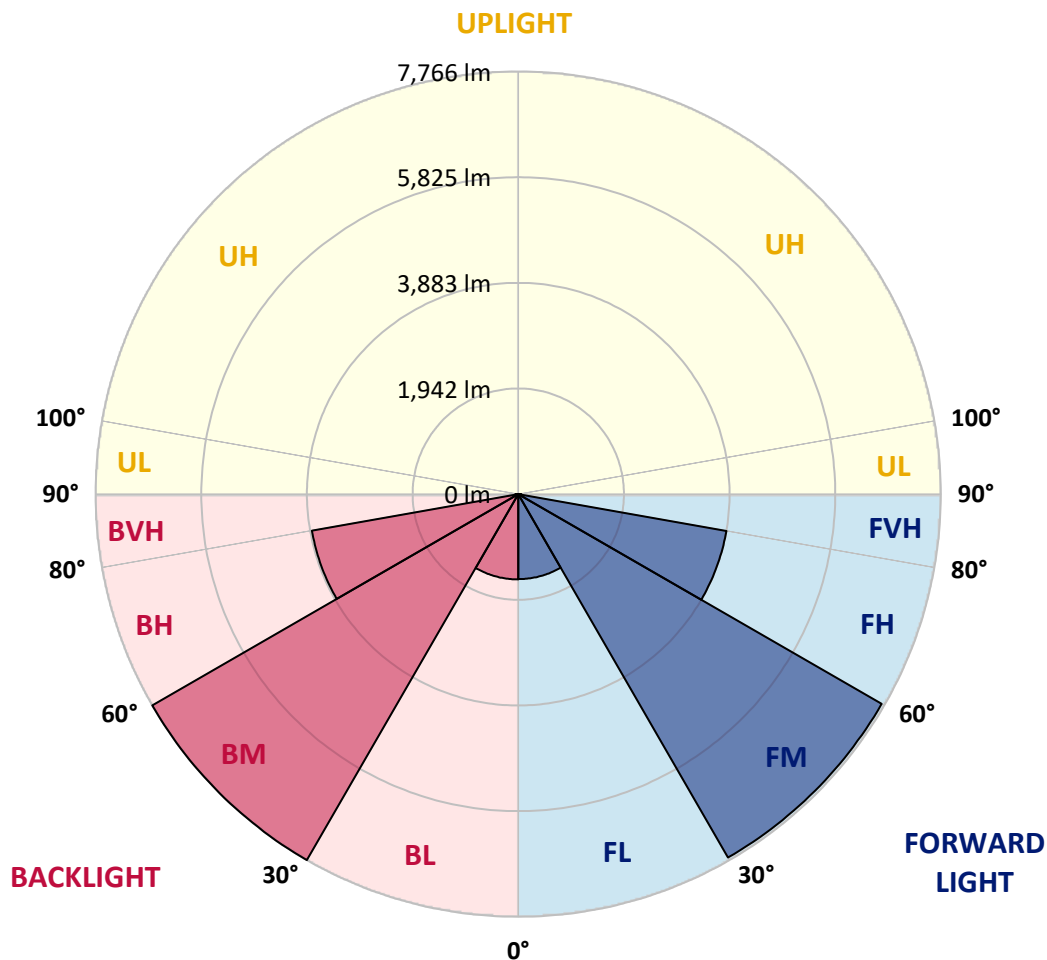
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.3	5.9			
FM (30°-60°)	7710.5	29.1			
FH (60°-80°)	3885.0	14.7			G2/5000
FVH (80°-90°)	57.5	0.2			G1/100
BL (0°-30°)	1567.3	5.9	B3/2500		
BM (30°-60°)	7766.1	29.4	B4/8500		
BH (60°-80°)	3851.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.6	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°	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2
2.5°	3060.8	3066.9	3121.5	3100.2	3118.4	3085.1	3109.3	3160.9	3100.2	3145.7	3160.9
5°	3094.2	3103.3	3103.3	3124.5	3136.6	3130.6	3145.7	3124.5	3182.1	3157.9	3194.3
7.5°	3215.5	3200.3	3176.1	3194.3	3197.3	3212.5	3227.6	3254.9	3245.8	3224.6	3261.0
10°	3236.7	3224.6	3261.0	3264.0	3248.9	3236.7	3251.9	3251.9	3279.2	3285.3	3285.3
12.5°	3273.1	3285.3	3282.2	3306.5	3309.5	3300.4	3324.7	3370.2	3358.1	3367.2	3345.9
15°	3412.7	3397.5	3394.5	3418.7	3458.2	3400.5	3443.0	3440.0	3427.8	3446.1	3397.5
17.5°	3534.0	3485.5	3506.7	3546.2	3531.0	3543.1	3597.7	3549.2	3561.3	3540.1	3524.9
20°	3640.2	3600.8	3603.8	3619.0	3619.0	3655.4	3676.6	3658.4	3646.3	3643.2	3649.3
22.5°	3758.5	3713.0	3716.0	3779.7	3801.0	3788.8	3773.7	3804.0	3810.1	3785.8	3813.1
25°	3846.5	3895.0	3910.2	3940.5	3895.0	3928.4	3916.2	3973.9	4010.3	3961.7	3995.1
27.5°	4077.0	4055.8	4095.2	4092.2	4128.6	4095.2	4116.5	4134.7	4149.8	4152.9	4137.7
30°	4283.3	4292.4	4253.0	4359.1	4274.2	4328.8	4365.2	4374.3	4392.5	4392.5	4347.0
32.5°	4501.7	4483.5	4547.2	4522.9	4507.8	4550.2	4510.8	4635.2	4562.4	4604.8	4553.3
35°	4747.4	4747.4	4771.7	4838.4	4747.4	4720.1	4792.9	4844.5	4844.5	4768.7	4786.9
37.5°	5023.5	4999.2	5029.5	5114.5	5044.7	4953.7	5087.2	5108.4	5093.2	5072.0	5035.6
40°	5217.6	5211.5	5272.2	5384.5	5284.3	5266.1	5290.4	5348.1	5366.3	5387.5	5339.0
42.5°	5545.2	5572.5	5748.5	5721.2	5639.3	5575.6	5569.5	5784.9	5733.3	5678.7	5651.4
45°	6030.6	6006.3	6097.3	6100.4	5994.2	5854.6	5885.0	6082.2	6170.1	6048.8	6094.3
47.5°	6415.8	6428.0	6491.7	6622.1	6376.4	6230.8	6343.0	6661.6	6634.3	6588.8	6631.2
50°	6931.5	6986.1	7186.4	7140.8	6922.4	6743.5	6989.2	7289.5	7322.9	7156.0	7125.7
52.5°	7644.4	7729.3	7838.6	7875.0	7665.6	7601.9	7617.1	7990.2	7908.3	7747.5	7644.4
55°	8269.3	8308.7	8509.0	8809.3	8794.1	8487.7	8663.7	8803.2	8469.5	8138.9	8166.2
57.5°	8536.3	8554.5	9112.6	9713.3	10071.2	10141.0	9940.8	9470.6	8675.8	8038.8	7999.3
60°	7871.9	8044.8	8718.3	10074.2	11709.3	12516.2	11184.5	9546.4	8193.5	7419.9	7362.3
62.5°	6291.5	6300.6	7301.6	9358.3	12728.5	14842.9	11660.8	8833.5	6907.3	6030.6	5800.0
64°	4480.5	4565.4	5715.1	8284.5	12516.2	15789.3	11603.1	7902.3	5693.9	4450.1	4289.4
65°	3215.5	3333.8	4444.1	7192.4	12018.7	15677.1	11430.2	7101.4	4604.8	3397.5	3233.7
67.5°	1183.1	1231.6	1744.3	3597.7	8630.3	13359.5	9058.0	3904.1	2023.3	1440.9	1295.3
70°	549.1	552.1	646.1	1189.1	3773.7	8933.6	4322.7	1465.2	761.4	603.7	561.2
72.5°	403.5	412.6	452.0	549.1	1110.3	3782.8	1419.7	600.6	445.9	394.4	385.3
75°	327.6	333.7	345.8	397.4	512.7	1013.2	576.4	415.6	354.9	318.5	306.4
77.5°	251.8	251.8	279.1	303.3	339.8	473.2	382.2	330.7	288.2	251.8	242.7
80°	182.0	185.0	218.4	236.6	230.5	312.5	276.0	273.0	236.6	197.2	182.0
82.5°	106.2	115.3	157.7	169.9	163.8	185.0	200.2	212.3	185.0	136.5	124.4
85°	60.7	63.7	91.0	94.0	94.0	88.0	115.3	127.4	124.4	84.9	75.8
87.5°	18.2	18.2	24.3	24.3	27.3	30.3	45.5	54.6	60.7	42.5	39.4
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°	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2	3097.2
2.5°	3145.7	3100.2	3103.3	3115.4	3076.0	3091.1	3136.6	3103.3	3094.2	3076.0	3066.9
5°	3130.6	3179.1	3160.9	3167.0	3157.9	3115.4	3109.3	3136.6	3151.8	3124.5	3179.1
7.5°	3236.7	3215.5	3191.2	3200.3	3179.1	3215.5	3239.8	3185.2	3212.5	3197.3	3167.0
10°	3297.4	3258.0	3276.2	3270.1	3254.9	3291.3	3267.1	3261.0	3236.7	3203.4	3251.9
12.5°	3318.6	3364.1	3394.5	3342.9	3352.0	3333.8	3318.6	3318.6	3291.3	3282.2	3291.3
15°	3412.7	3452.1	3440.0	3479.4	3427.8	3446.1	3464.3	3418.7	3443.0	3376.3	3427.8
17.5°	3585.6	3552.2	3594.7	3543.1	3561.3	3597.7	3540.1	3540.1	3558.3	3521.9	3476.4
20°	3694.8	3679.6	3664.5	3667.5	3637.2	3670.5	3652.3	3643.2	3615.9	3628.1	3652.3
22.5°	3797.9	3776.7	3782.8	3791.9	3813.1	3797.9	3788.8	3797.9	3731.2	3791.9	3706.9
25°	3925.3	3983.0	3964.8	4004.2	3943.5	3983.0	3979.9	3922.3	3958.7	3934.4	3916.2
27.5°	4137.7	4107.4	4134.7	4086.1	4128.6	4131.6	4095.2	4192.3	4149.8	4143.8	4131.6
30°	4410.7	4389.5	4371.3	4344.0	4377.3	4350.0	4380.4	4389.5	4350.0	4319.7	4262.1
32.5°	4565.4	4623.0	4644.3	4577.5	4580.6	4595.7	4568.4	4541.1	4565.4	4574.5	4565.4
35°	4783.8	4838.4	4850.6	4799.0	4771.7	4847.5	4792.9	4883.9	4805.1	4808.1	4726.2
37.5°	5038.6	5053.8	5156.9	5099.3	5075.0	5038.6	5138.7	5126.6	5144.8	4999.2	5072.0
40°	5326.8	5381.4	5439.1	5293.4	5290.4	5323.8	5317.7	5387.5	5354.1	5332.9	5281.3
42.5°	5642.3	5757.6	5766.7	5669.6	5608.9	5602.9	5633.2	5787.9	5790.9	5651.4	5590.7
45°	6060.9	6188.3	6155.0	5966.9	5900.1	5891.0	6039.7	6106.4	6164.1	6109.5	6057.9
47.5°	6582.7	6667.6	6643.4	6470.4	6255.1	6315.7	6461.3	6670.7	6610.0	6537.2	6476.5
50°	7140.8	7241.0	7189.4	7016.5	6810.2	6810.2	6989.2	7256.1	7237.9	7095.3	7040.7
52.5°	7759.7	7905.3	8023.6	7777.9	7605.0	7632.3	7914.4	8011.5	7966.0	7865.9	7820.4
55°	8220.8	8499.9	8742.5	8754.7	8763.8	8760.7	8833.5	8930.6	8606.0	8445.3	8281.4
57.5°	8108.5	8636.4	9467.5	10031.8	10198.6	10286.6	10262.3	9813.4	9045.9	8518.1	8572.7
60°	7307.7	8169.2	9510.0	11321.0	12534.4	12413.1	11970.2	10195.6	8803.2	7911.4	7799.1
62.5°	5830.4	6867.8	8797.1	11685.0	15027.9	14991.5	12673.9	9312.8	7335.0	6206.5	6136.8
64°	4392.5	5484.6	7847.7	11591.0	15901.6	15938.0	12495.0	8226.8	5739.4	4392.5	4286.3
65°	3361.1	4374.3	6916.4	11396.8	15713.5	15734.7	11997.5	7104.4	4362.2	3118.4	3003.2
67.5°	1337.8	1862.6	3752.4	8642.4	13493.0	13435.4	8560.5	3437.0	1668.4	1086.0	1064.8
70°	570.3	709.8	1316.5	4095.2	9033.7	8866.9	3685.7	1116.3	618.8	518.7	515.7
72.5°	391.3	433.8	564.2	1265.0	3755.5	3667.5	1049.6	518.7	421.7	388.3	388.3
75°	315.5	345.8	409.5	530.9	995.0	958.6	494.5	382.2	336.7	312.5	309.4
77.5°	245.7	276.0	321.6	367.1	455.0	452.0	330.7	288.2	260.9	242.7	236.6
80°	194.1	224.5	254.8	260.9	297.3	291.2	224.5	227.5	212.3	175.9	172.9
82.5°	133.5	182.0	203.2	185.0	175.9	175.9	160.8	160.8	148.6	109.2	100.1
85°	81.9	121.3	127.4	109.2	81.9	81.9	88.0	84.9	78.9	57.6	54.6
87.5°	42.5	57.6	51.6	42.5	27.3	27.3	24.3	18.2	18.2	15.2	15.2
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)