

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: P479264

Luminaire Tested: **IFLD-S-SA6B-730-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479264  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

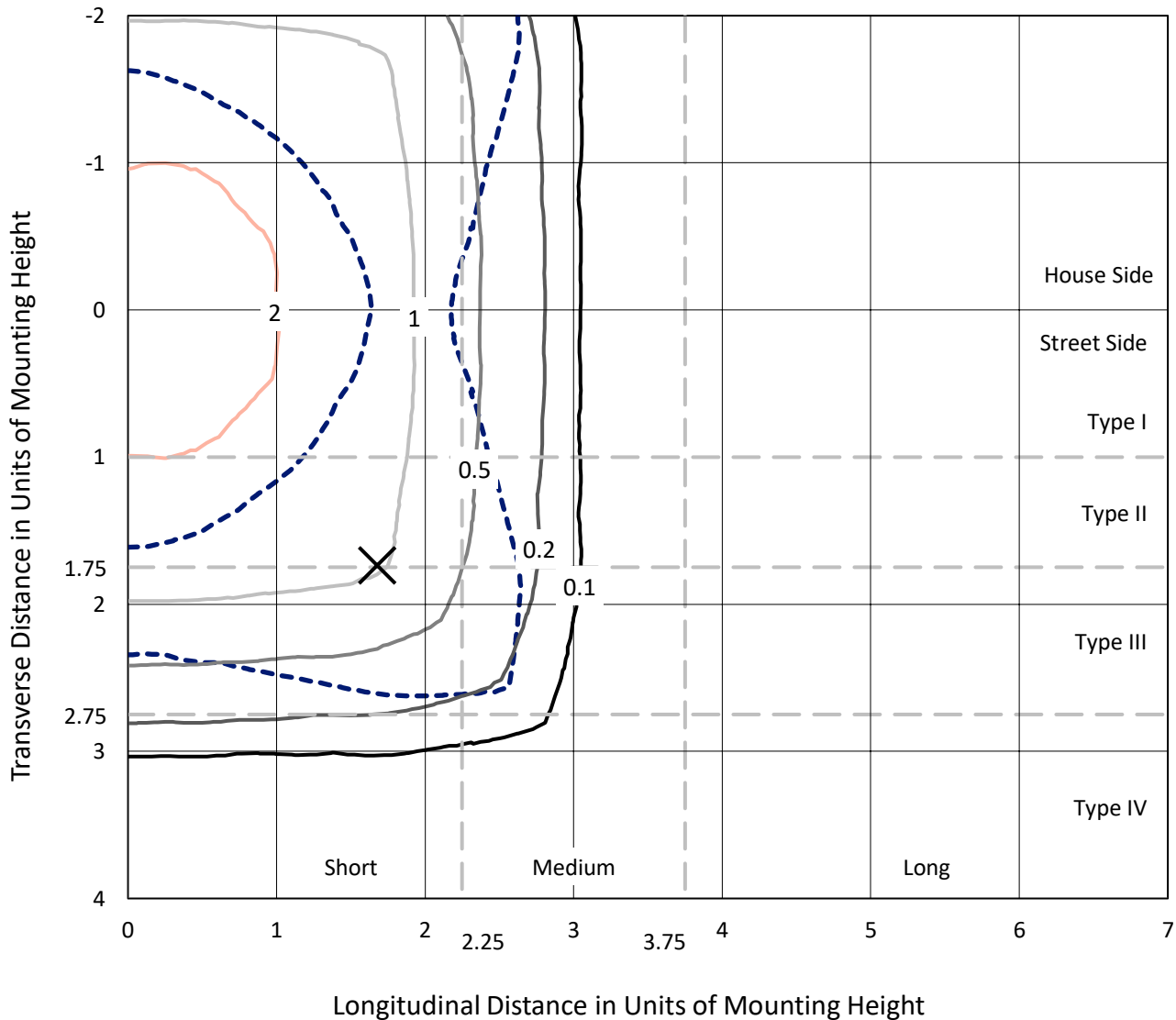
Lumens per Lamp: N/A  
Luminaire Lumens: 30681.5 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

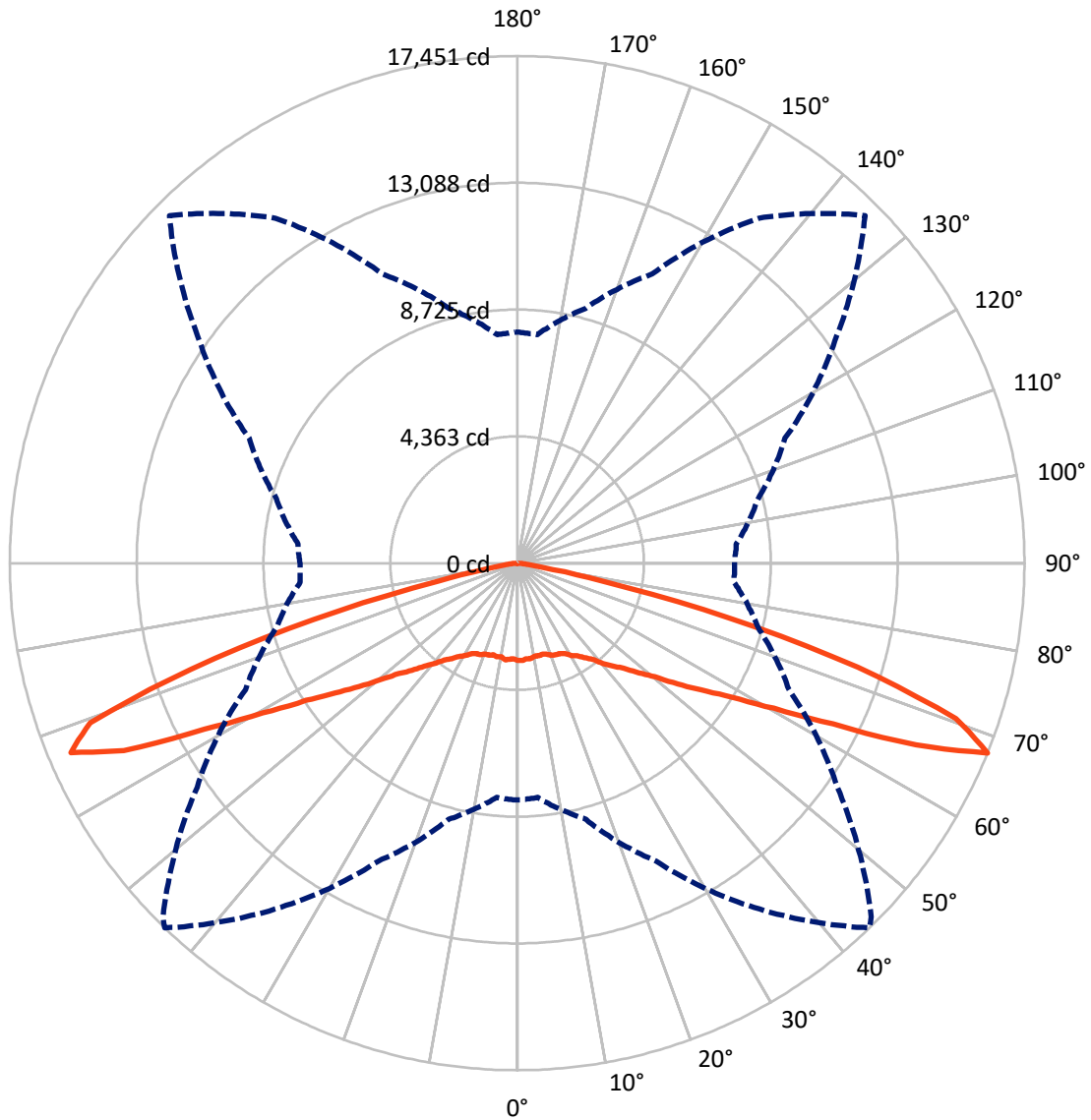
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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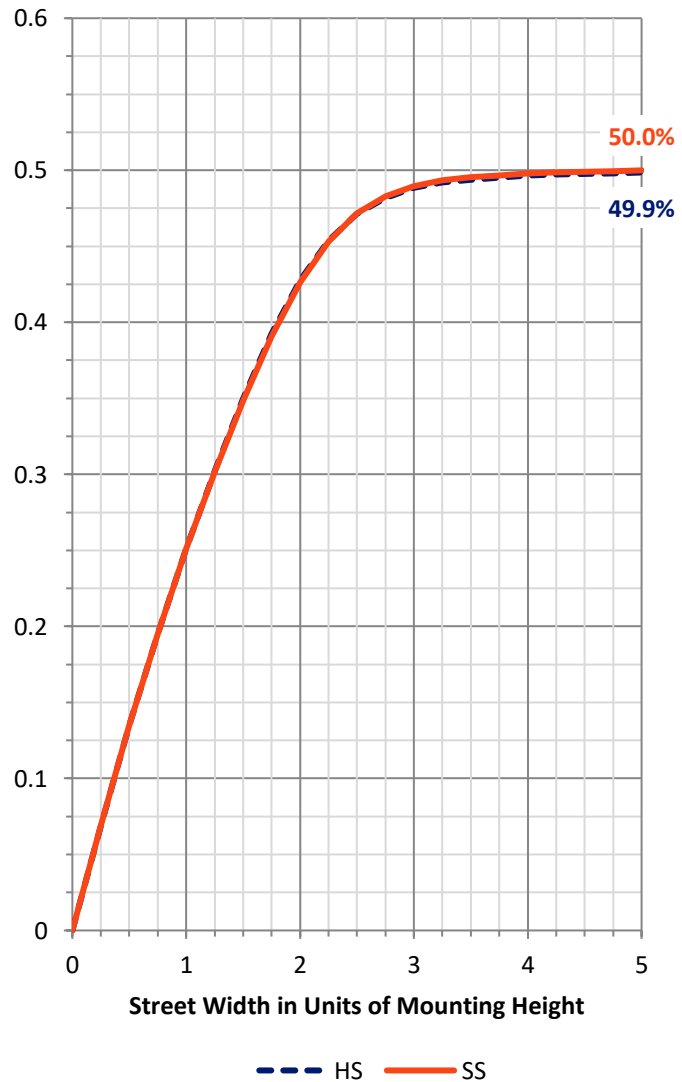
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15301.5	0.0	15301.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15380.0	0.0	15380.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	30681.5	0.0	30681.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	1.0
10°-20°	926.5	3.0
20°-30°	1575.6	5.1
30°-40°	2498.2	8.1
40°-50°	4073.5	13.3
50°-60°	6957.1	22.7
60°-70°	10581.6	34.5
70°-80°	3566.7	11.6
80°-90°	185.2	0.6
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°	30681.5	100.0
0°-180°	30681.5	100.0

**Coefficient of Utilization**



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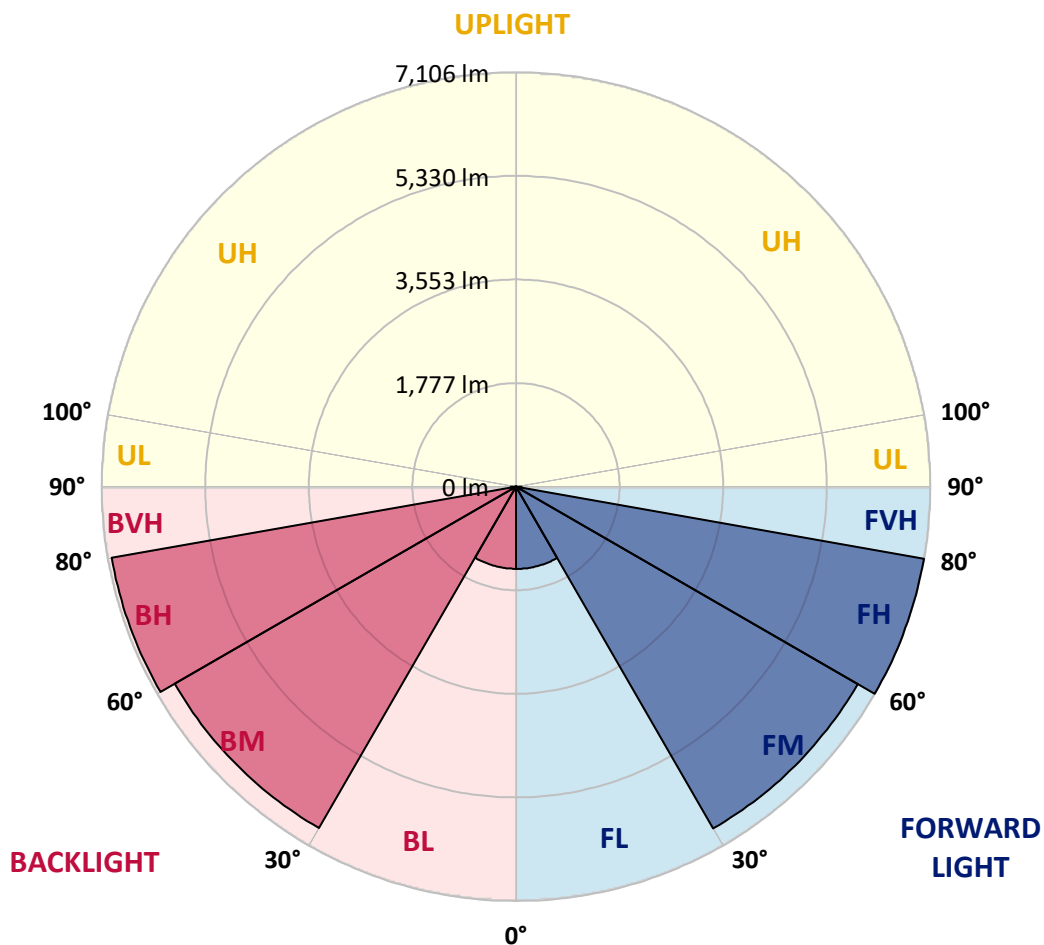
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.1	4.6			
FM (30°-60°)	6768.0	22.1			
FH (60°-80°)	7106.2	23.2			G3/7500
FVH (80°-90°)	94.7	0.3			G1/100
BL (0°-30°)	1408.2	4.6	B3/2500		
BM (30°-60°)	6760.8	22.0	B4/8500		
BH (60°-80°)	7042.1	23.0	B5		G3/7500
BVH (80°-90°)	90.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4
2.5°	3274.4	3312.9	3340.9	3337.4	3347.9	3358.4	3344.4	3365.4	3351.4	3375.9	3389.9
5°	3337.4	3326.9	3330.4	3309.4	3358.4	3302.4	3302.4	3330.4	3365.4	3323.4	3347.9
7.5°	3298.9	3291.9	3274.4	3305.9	3316.4	3316.4	3344.4	3291.9	3351.4	3365.4	3368.9
10°	3256.9	3218.3	3270.9	3302.4	3309.4	3253.4	3277.9	3291.9	3274.4	3291.9	3302.4
12.5°	3221.9	3242.9	3242.9	3242.9	3232.4	3270.9	3295.4	3291.9	3256.9	3288.4	3232.4
15°	3218.3	3207.8	3239.4	3267.4	3249.9	3256.9	3267.4	3298.9	3232.4	3246.4	3246.4
17.5°	3214.8	3228.9	3239.4	3235.9	3295.4	3295.4	3284.9	3263.9	3316.4	3288.4	3249.9
20°	3228.9	3218.3	3246.4	3256.9	3298.9	3382.9	3351.4	3333.9	3305.9	3270.9	3270.9
22.5°	3246.4	3239.4	3277.9	3323.4	3404.0	3425.0	3421.5	3400.5	3351.4	3309.4	3302.4
25°	3309.4	3246.4	3288.4	3375.9	3404.0	3446.0	3474.0	3446.0	3379.4	3389.9	3326.9
27.5°	3404.0	3393.5	3449.5	3509.0	3484.5	3523.0	3498.5	3519.5	3523.0	3470.5	3407.5
30°	3516.0	3484.5	3519.5	3635.1	3645.6	3687.6	3645.6	3589.6	3607.1	3561.5	3530.0
32.5°	3677.1	3666.6	3733.1	3810.2	3824.2	3803.2	3782.2	3813.7	3740.1	3705.1	3649.1
35°	3782.2	3827.7	3908.2	3967.8	4013.3	3992.3	4002.8	3971.3	3988.8	3915.3	3890.7
37.5°	4093.9	4076.3	4093.9	4195.4	4205.9	4195.4	4205.9	4240.9	4216.4	4153.4	4090.4
40°	4388.0	4360.0	4402.0	4517.6	4510.6	4545.6	4475.6	4514.1	4514.1	4395.0	4370.5
42.5°	4608.6	4703.2	4752.2	4846.8	4881.8	4850.3	4836.3	4843.3	4920.3	4780.2	4727.7
45°	5063.9	5060.4	5207.5	5260.0	5162.0	5155.0	5126.9	5211.0	5263.5	5183.0	5162.0
47.5°	5557.7	5582.2	5666.3	5687.3	5746.8	5638.2	5638.2	5648.7	5834.4	5645.2	5547.2
50°	6002.5	6034.0	6202.1	6366.7	6254.6	6139.0	6184.6	6240.6	6342.1	6163.5	6079.5
52.5°	6541.8	6713.4	6825.4	6913.0	6993.5	6913.0	6807.9	6870.9	7070.6	6832.4	6727.4
55°	7319.2	7455.8	7560.8	7721.9	7788.5	7679.9	7669.4	7662.4	7774.5	7522.3	7378.7
57.5°	8187.7	8131.7	8299.8	8548.4	8790.1	8685.0	8653.5	8660.5	8688.5	8331.3	8222.7
60°	9266.3	9329.4	9529.0	9746.1	10001.7	10148.8	9942.2	9823.1	9847.7	9360.9	9192.8
62.5°	9882.7	10022.8	10474.5	11220.4	11735.2	12194.0	12225.5	11451.6	10933.3	9987.7	9273.3
65°	9585.0	9564.0	10415.0	11794.8	13745.4	15079.7	14880.1	13003.0	11192.4	9690.1	8730.5
67.5°	8152.7	8096.7	9126.2	11315.0	14536.9	17450.5	17222.9	13440.7	10316.9	8572.9	7487.3
70°	5253.0	5239.0	6356.2	8625.5	12978.5	16021.7	16105.8	12208.0	8397.8	6279.1	5204.0
72.5°	1908.6	2024.2	2672.0	4636.7	8814.6	12257.0	12309.6	9038.7	4829.3	2903.2	2139.7
75°	703.9	724.9	844.0	1505.9	4016.8	7525.8	7721.9	4384.5	1716.0	945.5	770.4
77.5°	406.2	409.7	451.8	560.3	1190.7	2938.2	3057.3	1330.8	665.4	504.3	465.8
80°	276.7	273.2	318.7	364.2	476.3	833.5	886.0	556.8	420.2	350.2	294.2
82.5°	161.1	171.6	234.6	259.1	290.7	367.7	374.7	346.7	315.2	259.1	192.6
85°	98.1	80.5	129.6	143.6	168.1	164.6	164.6	189.1	203.1	182.1	108.6
87.5°	24.5	24.5	31.5	35.0	45.5	35.0	38.5	73.5	98.1	91.1	56.0
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°	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4	3351.4
2.5°	3358.4	3347.9	3354.9	3393.5	3368.9	3295.4	3312.9	3351.4	3319.9	3302.4	3298.9
5°	3344.4	3365.4	3340.9	3347.9	3372.4	3312.9	3323.4	3372.4	3351.4	3358.4	3319.9
7.5°	3347.9	3358.4	3337.4	3305.9	3305.9	3354.9	3326.9	3333.9	3302.4	3354.9	3284.9
10°	3326.9	3298.9	3274.4	3291.9	3284.9	3270.9	3260.4	3281.4	3249.9	3295.4	3246.4
12.5°	3263.9	3270.9	3263.9	3256.9	3270.9	3305.9	3249.9	3256.9	3207.8	3214.8	3239.4
15°	3239.4	3260.4	3253.4	3291.9	3309.4	3256.9	3298.9	3256.9	3218.3	3197.3	3235.9
17.5°	3249.9	3281.4	3270.9	3298.9	3267.4	3305.9	3312.9	3295.4	3249.9	3232.4	3249.9
20°	3260.4	3249.9	3263.9	3312.9	3358.4	3319.9	3319.9	3309.4	3267.4	3242.9	3242.9
22.5°	3284.9	3267.4	3288.4	3326.9	3340.9	3400.5	3347.9	3323.4	3253.4	3190.3	3249.9
25°	3333.9	3344.4	3358.4	3344.4	3421.5	3414.5	3407.5	3389.9	3281.4	3284.9	3274.4
27.5°	3428.5	3368.9	3386.4	3470.5	3481.0	3509.0	3474.0	3505.5	3389.9	3393.5	3323.4
30°	3544.0	3481.0	3537.0	3610.6	3607.1	3659.6	3642.1	3649.1	3568.6	3523.0	3428.5
32.5°	3670.1	3663.1	3698.1	3743.7	3761.2	3789.2	3785.7	3785.7	3736.6	3617.6	3635.1
35°	3810.2	3859.2	3901.2	3950.3	3957.3	3992.3	3943.3	3950.3	3901.2	3813.7	3841.7
37.5°	4086.8	4083.3	4128.9	4188.4	4195.4	4167.4	4205.9	4188.4	4121.9	4062.3	4016.8
40°	4409.0	4339.0	4381.0	4521.1	4531.6	4482.6	4479.1	4475.6	4426.5	4297.0	4269.0
42.5°	4689.2	4780.2	4773.2	4818.8	4787.3	4762.7	4850.3	4801.3	4762.7	4626.2	4601.6
45°	5049.9	5077.9	5169.0	5316.1	5165.5	5165.5	5225.0	5186.5	5165.5	5063.9	4969.4
47.5°	5498.2	5522.7	5704.8	5715.3	5617.2	5550.7	5736.3	5743.3	5655.8	5578.7	5463.1
50°	6023.5	6034.0	6198.6	6366.7	6258.1	6132.0	6321.1	6394.7	6198.6	6093.5	5949.9
52.5°	6601.3	6569.8	6706.4	7021.5	6916.5	6878.0	7081.1	7098.6	6832.4	6667.8	6706.4
55°	7266.7	7224.7	7595.9	7809.5	7743.0	7672.9	7764.0	7806.0	7592.4	7322.7	7417.3
57.5°	8128.2	8149.2	8334.8	8544.9	8653.5	8671.0	8713.0	8671.0	8453.9	8180.7	8093.2
60°	8989.7	9052.7	9413.4	9809.1	9844.2	10152.3	10096.3	9886.2	9578.0	9189.3	9206.8
62.5°	9308.4	9255.8	9837.2	10803.7	11626.7	12190.5	11941.9	11195.9	10481.5	9774.1	9826.6
65°	8667.5	8797.1	9588.5	11101.4	12887.4	15118.2	13794.4	11731.7	10288.9	9374.9	9273.3
67.5°	7469.8	7567.9	8572.9	10169.8	13339.2	16918.2	14494.8	10975.3	9073.7	7890.0	7953.1
70°	5204.0	5253.0	6237.1	8331.3	12096.0	15965.7	13076.5	8429.3	6265.1	4993.9	5063.9
72.5°	2094.2	2213.3	2861.1	5018.4	8930.1	12131.0	8804.1	4423.0	2598.5	1933.1	1754.5
75°	773.9	777.4	914.0	1726.5	4240.9	7623.9	3971.3	1421.8	830.0	679.4	647.9
77.5°	448.3	444.8	476.3	623.4	1229.2	2976.7	1127.6	556.8	451.8	406.2	388.7
80°	280.2	276.7	325.7	413.2	539.3	816.0	476.3	346.7	304.7	262.7	262.7
82.5°	178.6	182.1	255.6	304.7	329.2	360.7	276.7	245.1	227.6	150.6	147.1
85°	115.6	105.1	178.6	203.1	182.1	161.1	154.1	129.6	119.1	73.5	80.5
87.5°	52.5	56.0	91.1	101.6	66.5	38.5	38.5	28.0	28.0	17.5	17.5
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)