

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: P479461

Luminaire Tested: **IFLD-S-SA6D-827-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

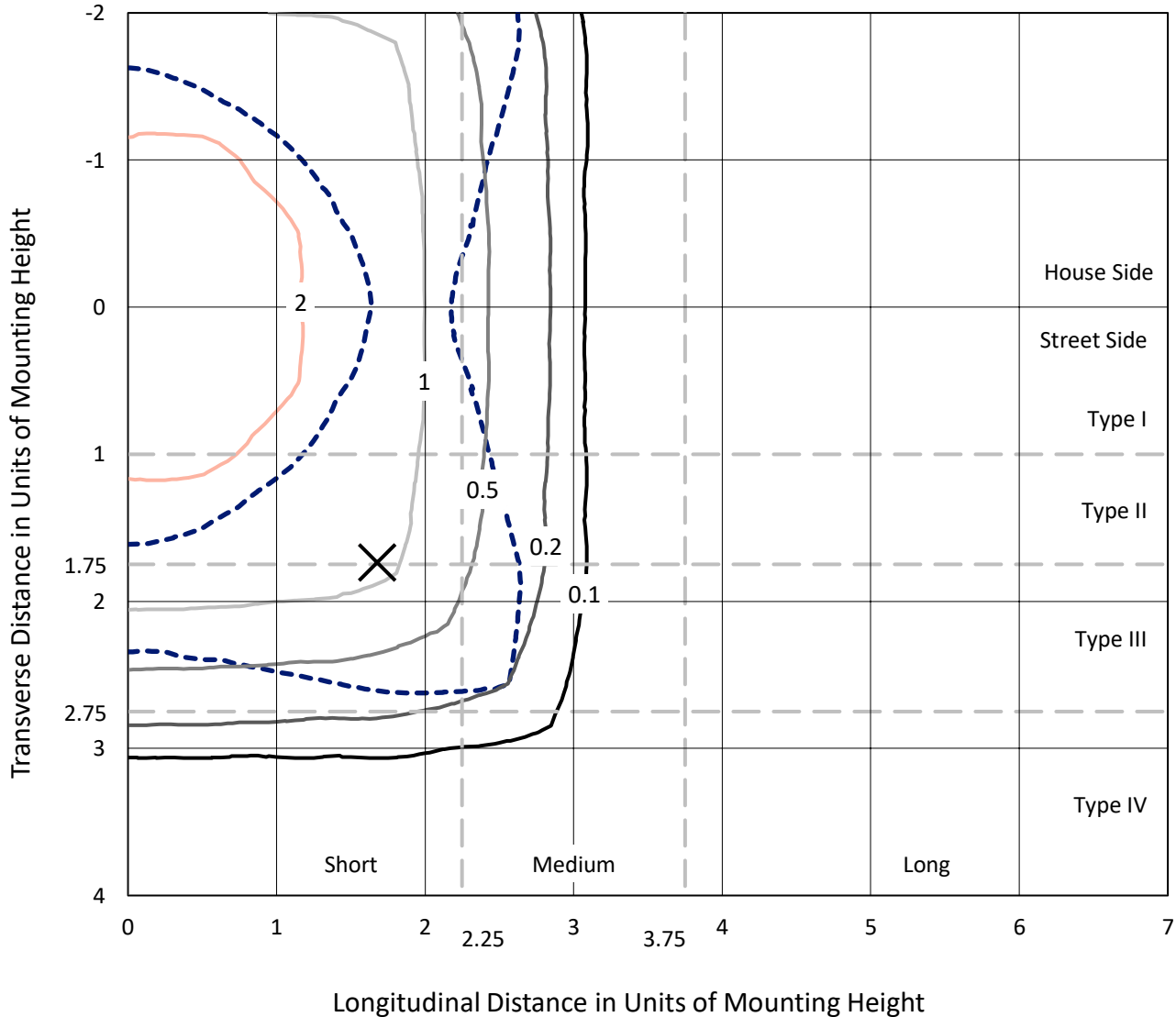
Lumens per Lamp: N/A
Luminaire Lumens: 33926.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
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

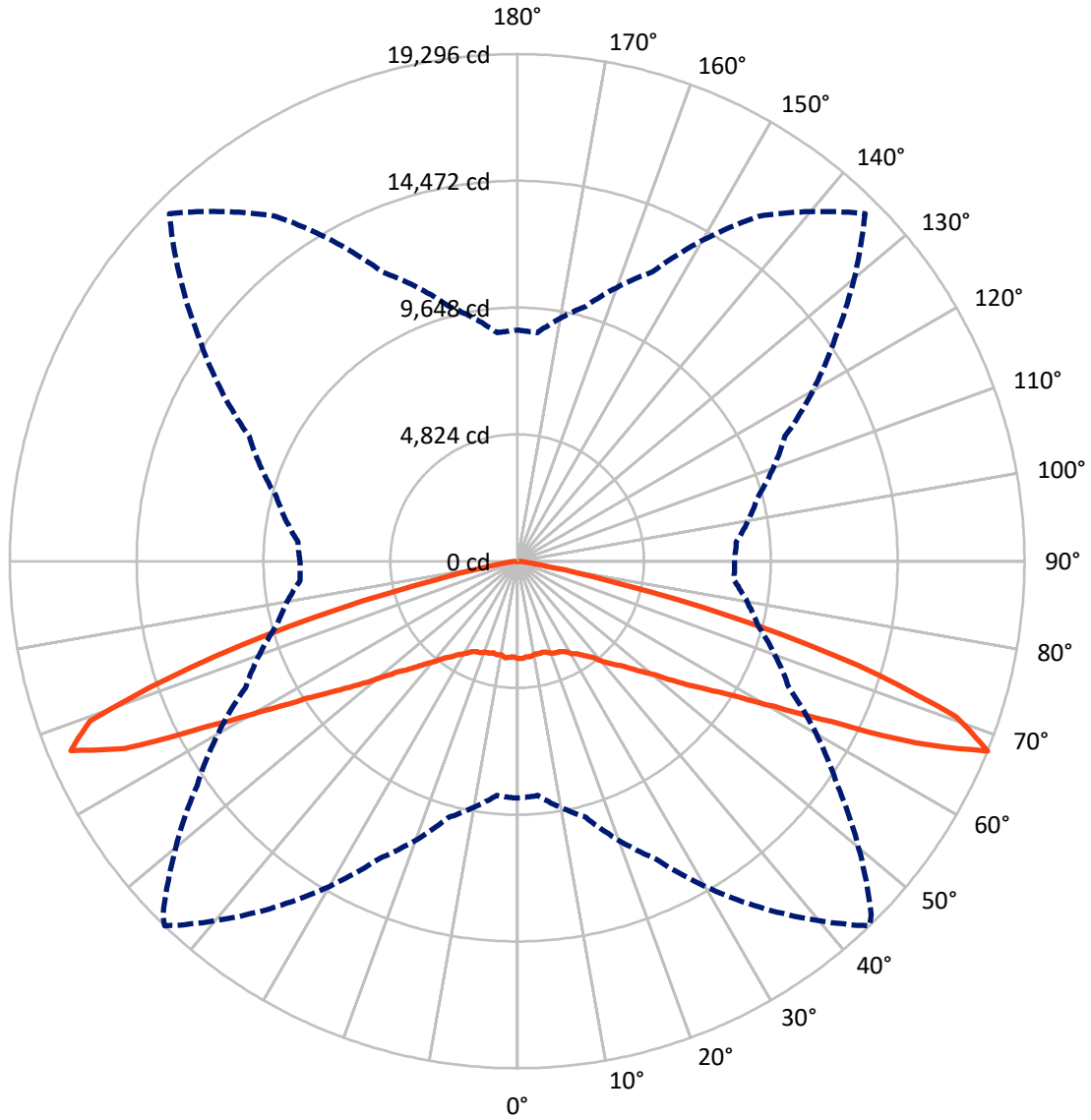
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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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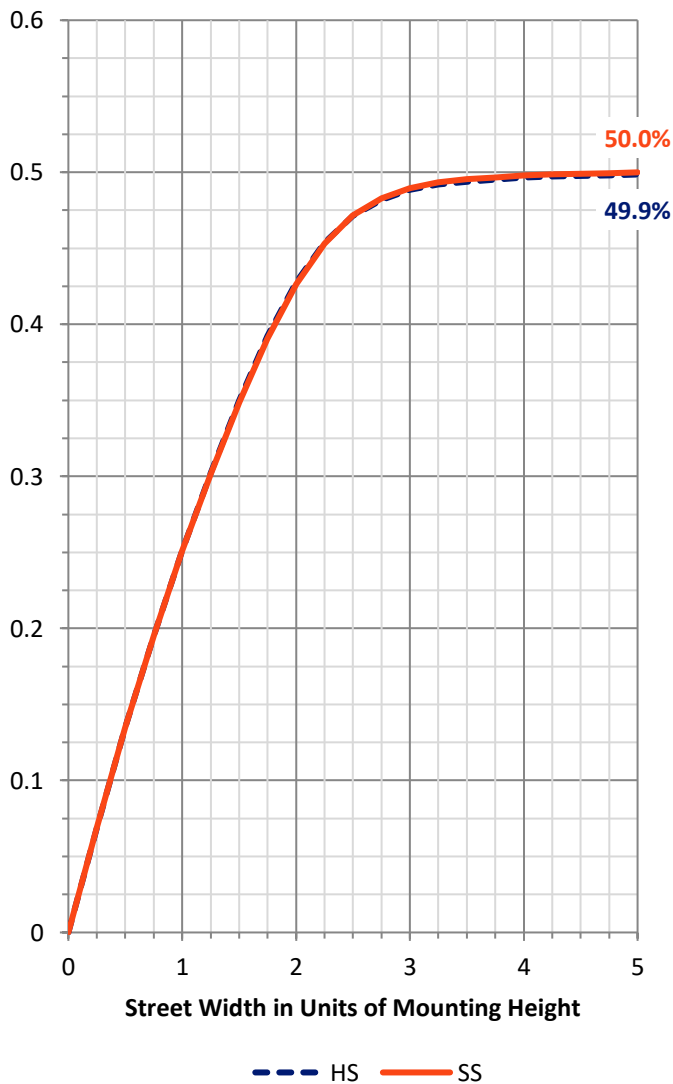
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16919.7	0.0	16919.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17006.6	0.0	17006.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	33926.3	0.0	33926.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	1.0
10°-20°	1024.5	3.0
20°-30°	1742.3	5.1
30°-40°	2762.4	8.1
40°-50°	4504.4	13.3
50°-60°	7692.8	22.7
60°-70°	11700.7	34.5
70°-80°	3943.9	11.6
80°-90°	204.8	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°	33926.3	100.0
0°-180°	33926.3	100.0

Coefficient of Utilization

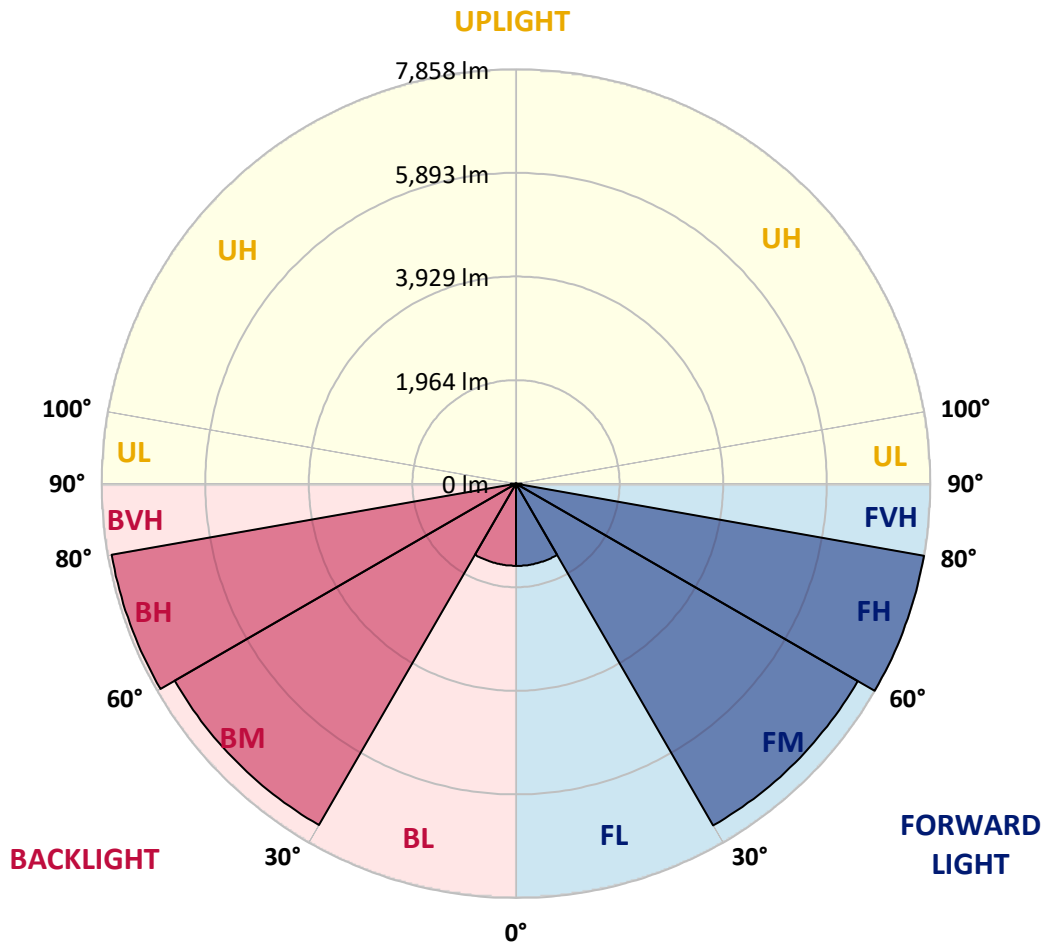


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.3	4.6			
FM (30°-60°)	7483.8	22.1			
FH (60°-80°)	7857.7	23.2			G4/12000
FVH (80°-90°)	104.8	0.3			G2/225
BL (0°-30°)	1557.1	4.6	B3/2500		
BM (30°-60°)	7475.7	22.0	B4/8500		
BH (60°-80°)	7786.8	23.0	B5		G4/12000
BVH (80°-90°)	100.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9
2.5°	3620.7	3663.3	3694.3	3690.4	3702.0	3713.6	3698.1	3721.4	3705.9	3733.0	3748.5
5°	3690.4	3678.8	3682.6	3659.4	3713.6	3651.7	3651.7	3682.6	3721.4	3674.9	3702.0
7.5°	3647.8	3640.0	3620.7	3655.5	3667.1	3667.1	3698.1	3640.0	3705.9	3721.4	3725.2
10°	3601.3	3558.7	3616.8	3651.7	3659.4	3597.4	3624.5	3640.0	3620.7	3640.0	3651.7
12.5°	3562.6	3585.8	3585.8	3585.8	3574.2	3616.8	3643.9	3640.0	3601.3	3636.2	3574.2
15°	3558.7	3547.1	3582.0	3612.9	3593.6	3601.3	3612.9	3647.8	3574.2	3589.7	3589.7
17.5°	3554.8	3570.3	3582.0	3578.1	3643.9	3643.9	3632.3	3609.1	3667.1	3636.2	3593.6
20°	3570.3	3558.7	3589.7	3601.3	3647.8	3740.7	3705.9	3686.5	3655.5	3616.8	3616.8
22.5°	3589.7	3582.0	3624.5	3674.9	3764.0	3787.2	3783.3	3760.1	3705.9	3659.4	3651.7
25°	3659.4	3589.7	3636.2	3733.0	3764.0	3810.4	3841.4	3810.4	3736.8	3748.5	3678.8
27.5°	3764.0	3752.3	3814.3	3880.1	3853.0	3895.6	3868.5	3891.7	3895.6	3837.5	3767.8
30°	3887.9	3853.0	3891.7	4019.5	4031.1	4077.6	4031.1	3969.2	3988.6	3938.2	3903.4
32.5°	4066.0	4054.4	4128.0	4213.2	4228.6	4205.4	4182.2	4217.0	4135.7	4097.0	4035.0
35°	4182.2	4232.5	4321.6	4387.4	4437.7	4414.5	4426.1	4391.3	4410.6	4329.3	4302.2
37.5°	4526.8	4507.5	4526.8	4639.1	4650.7	4639.1	4650.7	4689.5	4662.3	4592.6	4522.9
40°	4852.1	4821.1	4867.6	4995.4	4987.6	5026.4	4948.9	4991.5	4991.5	4859.8	4832.7
42.5°	5096.1	5200.6	5254.8	5359.4	5398.1	5363.2	5347.8	5355.5	5440.7	5285.8	5227.7
45°	5599.5	5595.6	5758.2	5816.3	5707.9	5700.1	5669.2	5762.1	5820.2	5731.1	5707.9
47.5°	6145.5	6172.6	6265.5	6288.7	6354.6	6234.5	6234.5	6246.2	6451.4	6242.3	6133.9
50°	6637.3	6672.1	6858.0	7040.0	6916.1	6788.3	6838.6	6900.6	7012.9	6815.4	6722.5
52.5°	7233.6	7423.4	7547.3	7644.1	7733.1	7644.1	7527.9	7597.6	7818.3	7555.0	7438.8
55°	8093.3	8244.3	8360.5	8538.6	8612.2	8492.1	8480.5	8472.8	8596.7	8317.9	8159.1
57.5°	9053.6	8991.7	9177.5	9452.5	9719.7	9603.5	9568.7	9576.4	9607.4	9212.4	9092.4
60°	10246.3	10316.0	10536.7	10776.8	11059.5	11222.2	10993.7	10862.0	10889.1	10350.9	10165.0
62.5°	10927.9	11082.8	11582.3	12407.1	12976.3	13483.6	13518.5	12662.7	12089.6	11044.0	10254.1
65°	10598.7	10575.5	11516.5	13042.2	15199.1	16674.5	16453.7	14378.2	12376.1	10714.9	9653.8
67.5°	9014.9	8952.9	10091.4	12511.7	16074.3	19296.1	19044.4	14862.2	11408.0	9479.6	8279.2
70°	5808.6	5793.1	7028.4	9537.7	14351.0	17716.1	17809.1	13499.1	9286.0	6943.2	5754.4
72.5°	2110.4	2238.2	2954.6	5127.0	9746.8	13553.3	13611.4	9994.6	5340.0	3210.2	2366.0
75°	778.3	801.6	933.2	1665.1	4441.6	8321.7	8538.6	4848.2	1897.5	1045.5	851.9
77.5°	449.2	453.1	499.5	619.6	1316.6	3248.9	3380.6	1471.5	735.8	557.6	515.0
80°	305.9	302.0	352.4	402.7	526.6	921.6	979.7	615.7	464.7	387.2	325.3
82.5°	178.1	189.7	259.4	286.6	321.4	406.6	414.3	383.4	348.5	286.6	213.0
85°	108.4	89.1	143.3	158.8	185.9	182.0	182.0	209.1	224.6	201.4	120.0
87.5°	27.1	27.1	34.9	38.7	50.3	38.7	42.6	81.3	108.4	100.7	62.0
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°	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9	3705.9
2.5°	3713.6	3702.0	3709.7	3752.3	3725.2	3643.9	3663.3	3705.9	3671.0	3651.7	3647.8
5°	3698.1	3721.4	3694.3	3702.0	3729.1	3663.3	3674.9	3729.1	3705.9	3713.6	3671.0
7.5°	3702.0	3713.6	3690.4	3655.5	3655.5	3709.7	3678.8	3686.5	3651.7	3709.7	3632.3
10°	3678.8	3647.8	3620.7	3640.0	3632.3	3616.8	3605.2	3628.4	3593.6	3643.9	3589.7
12.5°	3609.1	3616.8	3609.1	3601.3	3616.8	3655.5	3593.6	3601.3	3547.1	3554.8	3582.0
15°	3582.0	3605.2	3597.4	3640.0	3659.4	3601.3	3647.8	3601.3	3558.7	3535.5	3578.1
17.5°	3593.6	3628.4	3616.8	3647.8	3612.9	3655.5	3663.3	3643.9	3593.6	3574.2	3593.6
20°	3605.2	3593.6	3609.1	3663.3	3713.6	3671.0	3671.0	3659.4	3612.9	3585.8	3585.8
22.5°	3632.3	3612.9	3636.2	3678.8	3694.3	3760.1	3702.0	3674.9	3597.4	3527.7	3593.6
25°	3686.5	3698.1	3713.6	3698.1	3783.3	3775.6	3767.8	3748.5	3628.4	3632.3	3620.7
27.5°	3791.1	3725.2	3744.6	3837.5	3849.1	3880.1	3841.4	3876.3	3748.5	3752.3	3674.9
30°	3918.8	3849.1	3911.1	3992.4	3988.6	4046.6	4027.3	4035.0	3946.0	3895.6	3791.1
32.5°	4058.3	4050.5	4089.2	4139.6	4158.9	4189.9	4186.0	4186.0	4131.8	4000.2	4019.5
35°	4213.2	4267.4	4313.8	4368.0	4375.8	4414.5	4360.3	4368.0	4313.8	4217.0	4248.0
37.5°	4519.1	4515.2	4565.5	4631.4	4639.1	4608.1	4650.7	4631.4	4557.8	4492.0	4441.6
40°	4875.3	4797.9	4844.3	4999.2	5010.9	4956.6	4952.8	4948.9	4894.7	4751.4	4720.4
42.5°	5185.1	5285.8	5278.1	5328.4	5293.5	5266.4	5363.2	5309.0	5266.4	5115.4	5088.3
45°	5584.0	5615.0	5715.6	5878.3	5711.8	5711.8	5777.6	5735.0	5711.8	5599.5	5494.9
47.5°	6079.6	6106.7	6308.1	6319.7	6211.3	6137.7	6343.0	6350.7	6253.9	6168.7	6040.9
50°	6660.5	6672.1	6854.1	7040.0	6919.9	6780.5	6989.6	7071.0	6854.1	6737.9	6579.2
52.5°	7299.4	7264.6	7415.6	7764.1	7648.0	7605.4	7830.0	7849.3	7555.0	7373.0	7415.6
55°	8035.2	7988.7	8399.2	8635.4	8561.8	8484.4	8585.1	8631.5	8395.3	8097.1	8201.7
57.5°	8987.8	9011.0	9216.3	9448.6	9568.7	9588.0	9634.5	9588.0	9347.9	9045.9	8949.1
60°	9940.4	10010.1	10409.0	10846.5	10885.3	11226.0	11164.1	10931.7	10591.0	10161.1	10180.5
62.5°	10292.8	10234.7	10877.5	11946.3	12856.3	13479.8	13204.8	12380.0	11590.0	10807.8	10865.9
65°	9584.1	9727.4	10602.6	12275.4	14250.4	16717.1	15253.3	12972.5	11377.1	10366.4	10254.1
67.5°	8259.8	8368.2	9479.6	11245.4	14749.9	18707.5	16027.8	12136.0	10033.3	8724.5	8794.2
70°	5754.4	5808.6	6896.7	9212.4	13375.2	17654.2	14459.5	9320.8	6927.7	5522.0	5599.5
72.5°	2315.7	2447.3	3163.7	5549.1	9874.6	13413.9	9735.2	4890.8	2873.3	2137.6	1940.1
75°	855.8	859.7	1010.7	1909.1	4689.5	8430.2	4391.3	1572.2	917.8	751.2	716.4
77.5°	495.7	491.8	526.6	689.3	1359.2	3291.5	1246.9	615.7	499.5	449.2	429.8
80°	309.8	305.9	360.1	456.9	596.3	902.3	526.6	383.4	336.9	290.4	290.4
82.5°	197.5	201.4	282.7	336.9	364.0	398.9	305.9	271.1	251.7	166.5	162.6
85°	127.8	116.2	197.5	224.6	201.4	178.1	170.4	143.3	131.7	81.3	89.1
87.5°	58.1	62.0	100.7	112.3	73.6	42.6	42.6	31.0	31.0	19.4	19.4
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)