

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: P479509

Luminaire Tested: **IFLD-L-SA7C-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479509
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

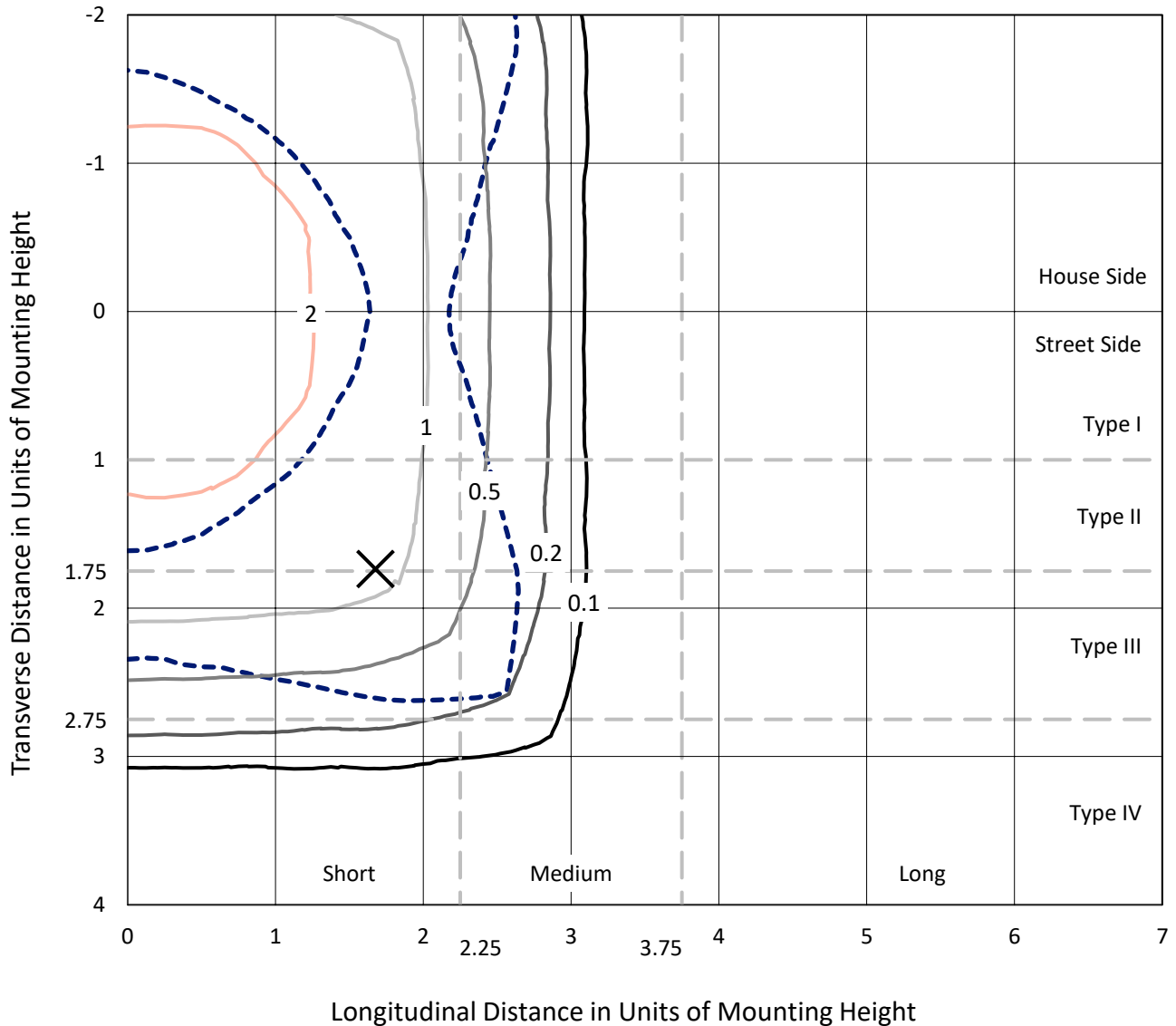
Lumens per Lamp: N/A
Luminaire Lumens: 35556.7 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 369
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

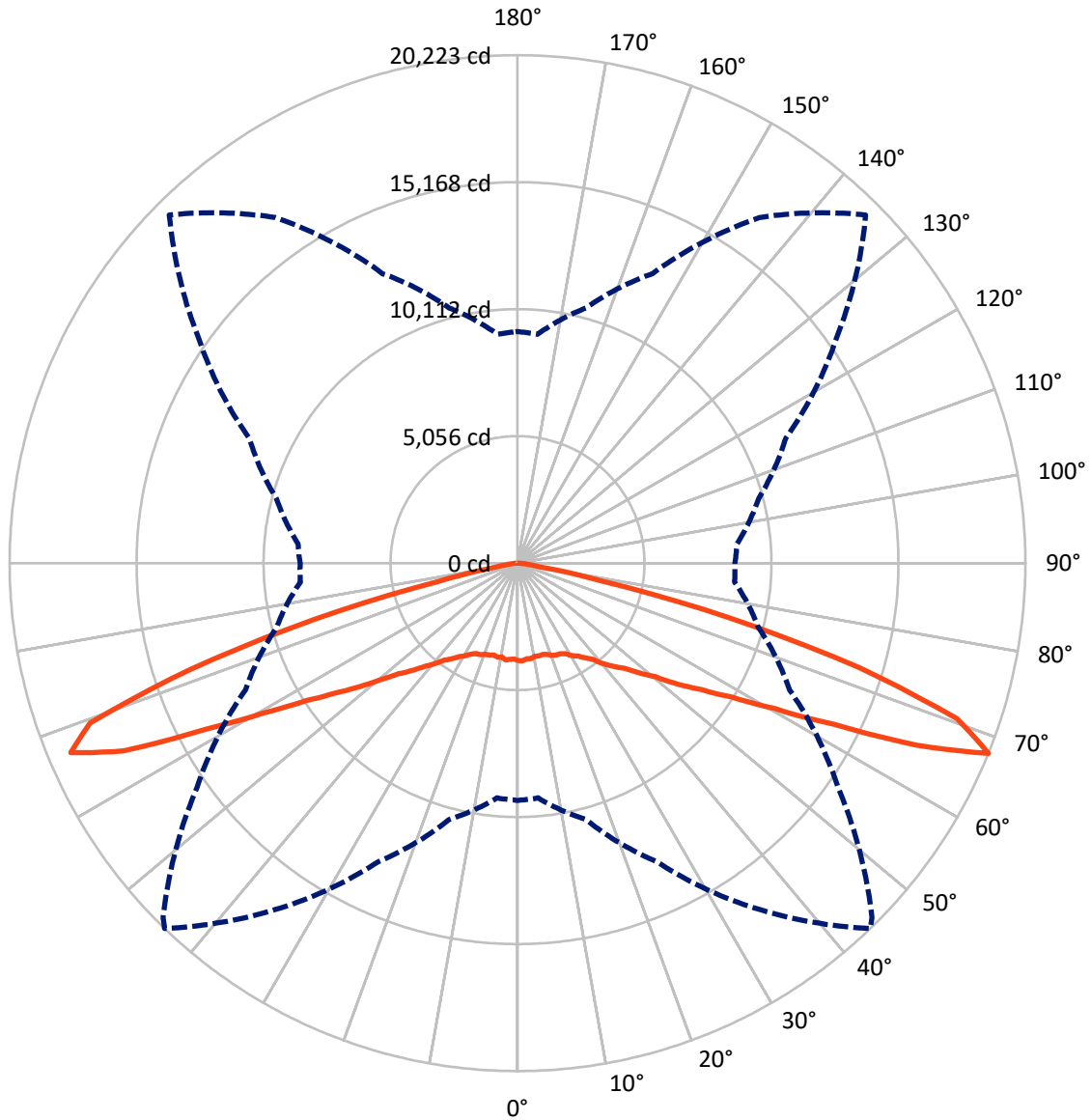
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	17732.8	0.0	17732.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17823.9	0.0	17823.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	35556.7	0.0	35556.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	1.0
10°-20°	1073.8	3.0
20°-30°	1826.0	5.1
30°-40°	2895.1	8.1
40°-50°	4720.8	13.3
50°-60°	8062.5	22.7
60°-70°	12263.0	34.5
70°-80°	4133.4	11.6
80°-90°	214.6	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°	35556.7	100.0
0°-180°	35556.7	100.0

Coefficient of Utilization



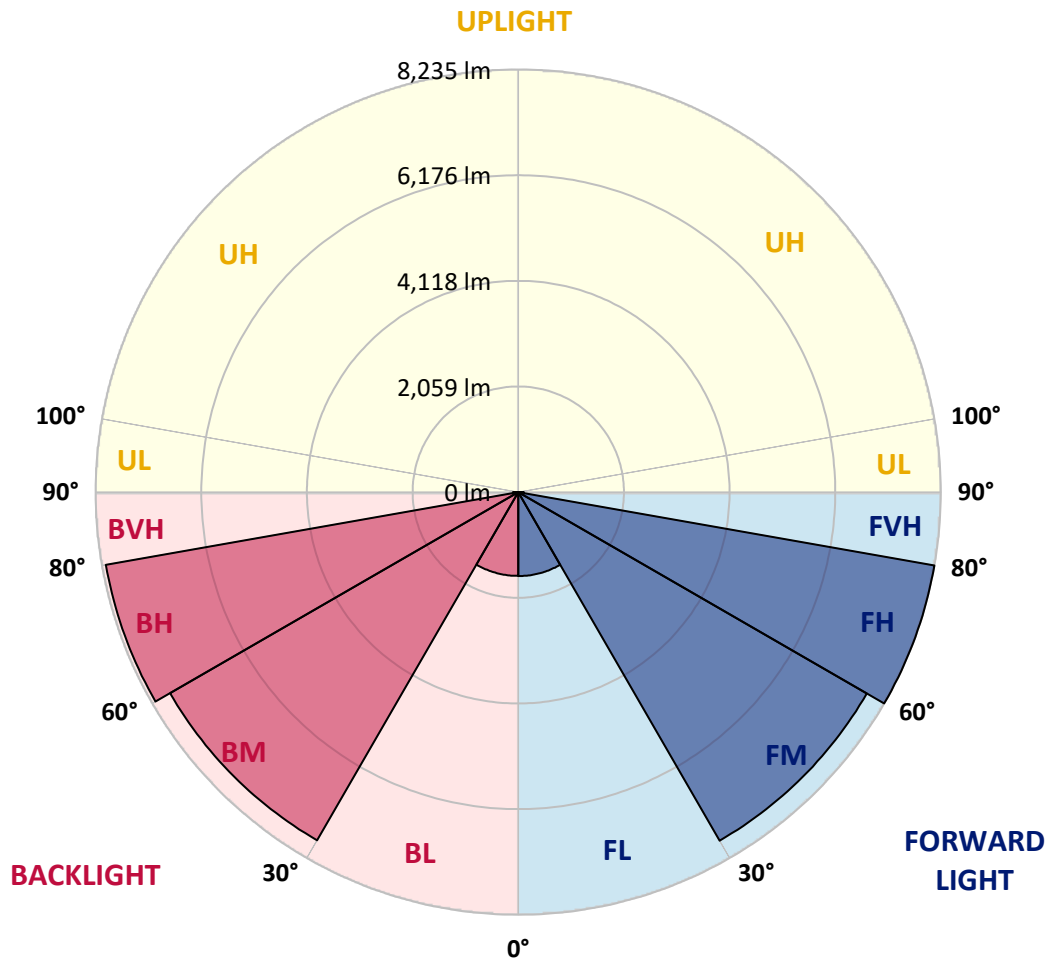
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1635.3	4.6			
FM (30°-60°)	7843.5	22.1			
FH (60°-80°)	8235.3	23.2			G4/12000
FVH (80°-90°)	109.8	0.3			G2/225
BL (0°-30°)	1632.0	4.6	B3/2500		
BM (30°-60°)	7835.0	22.0	B4/8500		
BH (60°-80°)	8161.1	23.0	B5		G4/12000
BVH (80°-90°)	104.8	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°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3794.7	3839.3	3871.8	3867.7	3879.9	3892.1	3875.8	3900.2	3884.0	3912.4	3928.6
5°	3867.7	3855.5	3859.6	3835.3	3892.1	3827.1	3827.1	3859.6	3900.2	3851.5	3879.9
7.5°	3823.1	3815.0	3794.7	3831.2	3843.4	3843.4	3875.8	3815.0	3884.0	3900.2	3904.3
10°	3774.4	3729.7	3790.6	3827.1	3835.3	3770.3	3798.7	3815.0	3794.7	3815.0	3827.1
12.5°	3733.8	3758.1	3758.1	3758.1	3746.0	3790.6	3819.0	3815.0	3774.4	3810.9	3746.0
15°	3729.7	3717.6	3754.1	3786.6	3766.3	3774.4	3786.6	3823.1	3746.0	3762.2	3762.2
17.5°	3725.7	3741.9	3754.1	3750.0	3819.0	3819.0	3806.8	3782.5	3843.4	3810.9	3766.3
20°	3741.9	3729.7	3762.2	3774.4	3823.1	3920.5	3884.0	3863.7	3831.2	3790.6	3790.6
22.5°	3762.2	3754.1	3798.7	3851.5	3944.8	3969.2	3965.1	3940.8	3884.0	3835.3	3827.1
25°	3835.3	3762.2	3810.9	3912.4	3944.8	3993.5	4026.0	3993.5	3916.4	3928.6	3855.5
27.5°	3944.8	3932.7	3997.6	4066.6	4038.2	4082.8	4054.4	4078.8	4082.8	4021.9	3948.9
30°	4074.7	4038.2	4078.8	4212.7	4224.9	4273.6	4224.9	4159.9	4180.2	4127.5	4090.9
32.5°	4261.4	4249.2	4326.3	4415.6	4431.9	4407.5	4383.2	4419.7	4334.4	4293.9	4228.9
35°	4383.2	4435.9	4529.3	4598.3	4651.0	4626.7	4638.8	4602.3	4622.6	4537.4	4509.0
37.5°	4744.4	4724.1	4744.4	4862.1	4874.2	4862.1	4874.2	4914.8	4886.4	4813.3	4740.3
40°	5085.3	5052.8	5101.5	5235.4	5227.3	5267.9	5186.7	5231.4	5231.4	5093.4	5065.0
42.5°	5341.0	5450.5	5507.3	5616.9	5657.5	5621.0	5604.8	5612.9	5702.2	5539.8	5478.9
45°	5868.6	5864.5	6034.9	6095.8	5982.2	5974.1	5941.6	6039.0	6099.9	6006.5	5982.2
47.5°	6440.8	6469.2	6566.6	6591.0	6660.0	6534.1	6534.1	6546.3	6761.4	6542.3	6428.6
50°	6956.2	6992.7	7187.6	7378.3	7248.4	7114.5	7167.3	7232.2	7349.9	7142.9	7045.5
52.5°	7581.2	7780.1	7910.0	8011.4	8104.8	8011.4	7889.7	7962.7	8194.1	7918.1	7796.3
55°	8482.2	8640.5	8762.2	8948.9	9026.0	8900.2	8888.1	8879.9	9009.8	8717.6	8551.2
57.5°	9488.7	9423.8	9618.6	9906.7	10186.8	10065.0	10028.5	10036.6	10069.1	9655.1	9529.3
60°	10738.7	10811.8	11043.1	11294.7	11591.0	11761.5	11522.0	11384.0	11412.4	10848.3	10653.5
62.5°	11453.0	11615.4	12138.9	13003.3	13599.9	14131.6	14168.1	13271.2	12670.6	11574.8	10746.8
65°	11108.0	11083.7	12069.9	13668.9	15929.5	17475.8	17244.5	15069.1	12970.9	11229.8	10117.8
67.5°	9448.1	9383.2	10576.4	13112.9	16846.7	20223.4	19959.6	15576.4	11956.3	9935.1	8677.0
70°	6087.7	6071.5	7366.1	9996.0	15040.7	18567.5	18664.9	14147.8	9732.2	7276.8	6030.9
72.5°	2211.9	2345.8	3096.6	5373.4	10215.2	14204.7	14265.5	10474.9	5596.6	3364.5	2479.7
75°	815.8	840.1	978.1	1745.1	4655.1	8721.7	8948.9	5081.2	1988.7	1095.8	892.9
77.5°	470.8	474.8	523.5	649.4	1379.9	3405.1	3543.0	1542.2	771.1	584.4	539.8
80°	320.6	316.6	369.3	422.1	552.0	965.9	1026.8	645.3	487.0	405.8	340.9
82.5°	186.7	198.9	271.9	300.3	336.9	426.1	434.3	401.8	365.3	300.3	223.2
85°	113.6	93.3	150.2	166.4	194.8	190.7	190.7	219.2	235.4	211.0	125.8
87.5°	28.4	28.4	36.5	40.6	52.8	40.6	44.6	85.2	113.6	105.5	64.9
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°	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0	3884.0
2.5°	3892.1	3879.9	3888.0	3932.7	3904.3	3819.0	3839.3	3884.0	3847.4	3827.1	3823.1
5°	3875.8	3900.2	3871.8	3879.9	3908.3	3839.3	3851.5	3908.3	3884.0	3892.1	3847.4
7.5°	3879.9	3892.1	3867.7	3831.2	3831.2	3888.0	3855.5	3863.7	3827.1	3888.0	3806.8
10°	3855.5	3823.1	3794.7	3815.0	3806.8	3790.6	3778.4	3802.8	3766.3	3819.0	3762.2
12.5°	3782.5	3790.6	3782.5	3774.4	3790.6	3831.2	3766.3	3774.4	3717.6	3725.7	3754.1
15°	3754.1	3778.4	3770.3	3815.0	3835.3	3774.4	3823.1	3774.4	3729.7	3705.4	3750.0
17.5°	3766.3	3802.8	3790.6	3823.1	3786.6	3831.2	3839.3	3819.0	3766.3	3746.0	3766.3
20°	3778.4	3766.3	3782.5	3839.3	3892.1	3847.4	3847.4	3835.3	3786.6	3758.1	3758.1
22.5°	3806.8	3786.6	3810.9	3855.5	3871.8	3940.8	3879.9	3851.5	3770.3	3697.3	3766.3
25°	3863.7	3875.8	3892.1	3875.8	3965.1	3957.0	3948.9	3928.6	3802.8	3806.8	3794.7
27.5°	3973.2	3904.3	3924.5	4021.9	4034.1	4066.6	4026.0	4062.5	3928.6	3932.7	3851.5
30°	4107.2	4034.1	4099.1	4184.3	4180.2	4241.1	4220.8	4228.9	4135.6	4082.8	3973.2
32.5°	4253.3	4245.2	4285.7	4338.5	4358.8	4391.3	4387.2	4387.2	4330.4	4192.4	4212.7
35°	4415.6	4472.4	4521.1	4578.0	4586.1	4626.7	4569.8	4578.0	4521.1	4419.7	4452.1
37.5°	4736.2	4732.2	4784.9	4853.9	4862.1	4829.6	4874.2	4853.9	4776.8	4707.8	4655.1
40°	5109.6	5028.4	5077.1	5239.5	5251.7	5194.8	5190.8	5186.7	5129.9	4979.7	4947.3
42.5°	5434.3	5539.8	5531.7	5584.5	5547.9	5519.5	5621.0	5564.2	5519.5	5361.2	5332.8
45°	5852.3	5884.8	5990.3	6160.8	5986.2	5986.2	6055.2	6010.6	5986.2	5868.6	5759.0
47.5°	6371.8	6400.2	6611.3	6623.4	6509.8	6432.7	6647.8	6655.9	6554.4	6465.1	6331.2
50°	6980.6	6992.7	7183.5	7378.3	7252.5	7106.4	7325.5	7410.8	7183.5	7061.7	6895.3
52.5°	7650.2	7613.7	7772.0	8137.2	8015.5	7970.8	8206.2	8226.5	7918.1	7727.3	7772.0
55°	8421.3	8372.6	8802.8	9050.4	8973.3	8892.1	8997.6	9046.3	8798.8	8486.3	8595.8
57.5°	9419.7	9444.1	9659.2	9902.7	10028.5	10048.8	10097.5	10048.8	9797.2	9480.6	9379.1
60°	10418.1	10491.2	10909.2	11367.8	11408.4	11765.5	11700.6	11457.1	11099.9	10649.4	10669.7
62.5°	10787.4	10726.5	11400.3	12520.4	13474.1	14127.5	13839.4	12974.9	12147.0	11327.2	11388.1
65°	10044.7	10194.9	11112.1	12865.4	14935.2	17520.4	15986.3	13595.9	11923.8	10864.5	10746.8
67.5°	8656.7	8770.4	9935.1	11785.8	15458.7	19606.5	16798.0	12719.3	10515.5	9143.7	9216.8
70°	6030.9	6087.7	7228.1	9655.1	14018.0	18502.6	15154.3	9768.7	7260.6	5787.4	5868.6
72.5°	2427.0	2565.0	3315.8	5815.8	10349.1	14058.6	10203.0	5125.9	3011.4	2240.3	2033.3
75°	896.9	901.0	1059.3	2000.8	4914.8	8835.3	4602.3	1647.7	961.9	787.3	750.8
77.5°	519.5	515.4	552.0	722.4	1424.5	3449.7	1306.8	645.3	523.5	470.8	450.5
80°	324.7	320.6	377.4	478.9	625.0	945.6	552.0	401.8	353.1	304.4	304.4
82.5°	207.0	211.0	296.3	353.1	381.5	418.0	320.6	284.1	263.8	174.5	170.5
85°	133.9	121.8	207.0	235.4	211.0	186.7	178.6	150.2	138.0	85.2	93.3
87.5°	60.9	64.9	105.5	117.7	77.1	44.6	44.6	32.5	32.5	20.3	20.3
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)