

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: P478958

Luminaire Tested: **IFLD-M-SA4C-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

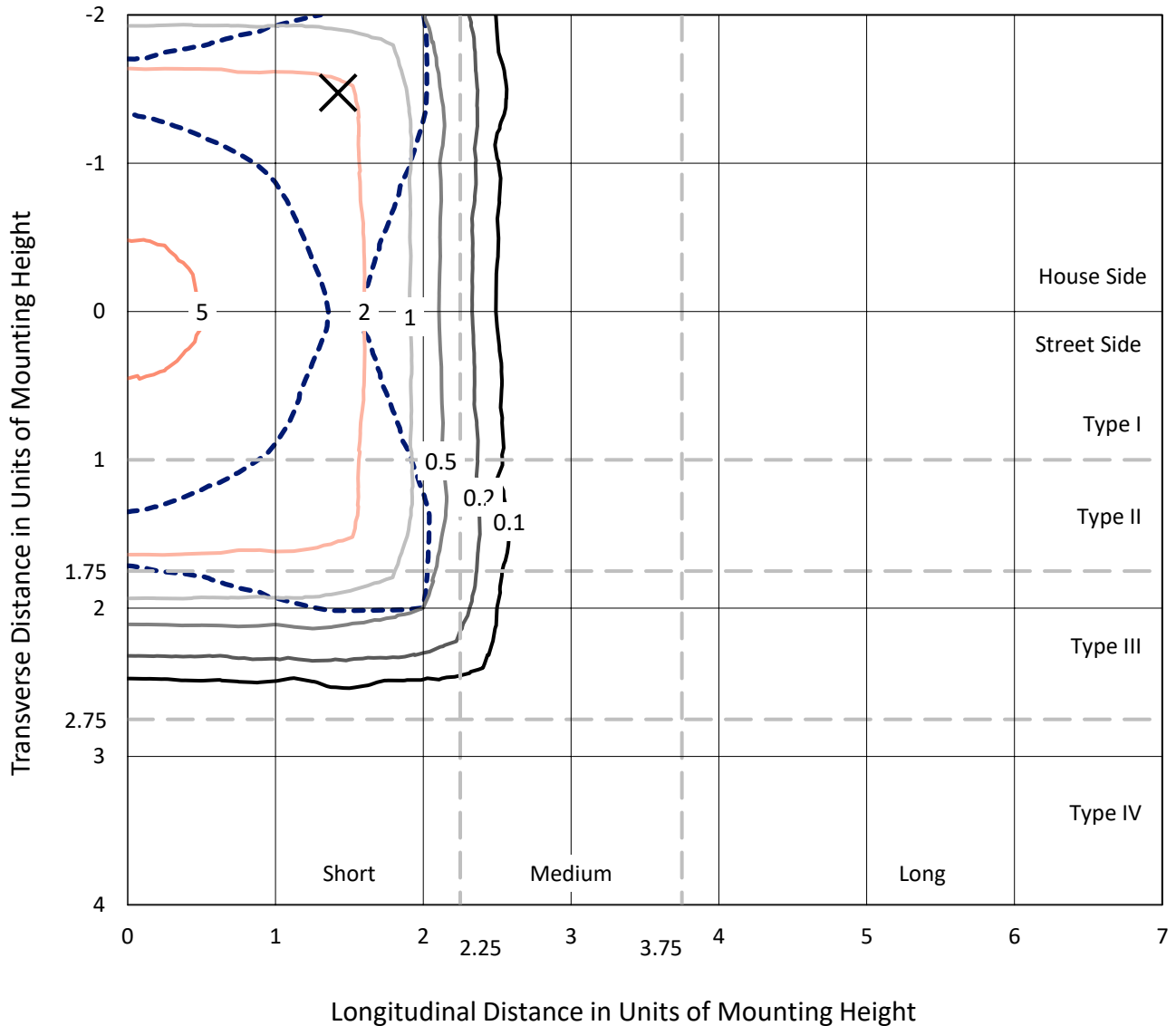
Lumens per Lamp: N/A
Luminaire Lumens: 28357 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 218.1
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

REPORT NUMBER: P478958
 CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

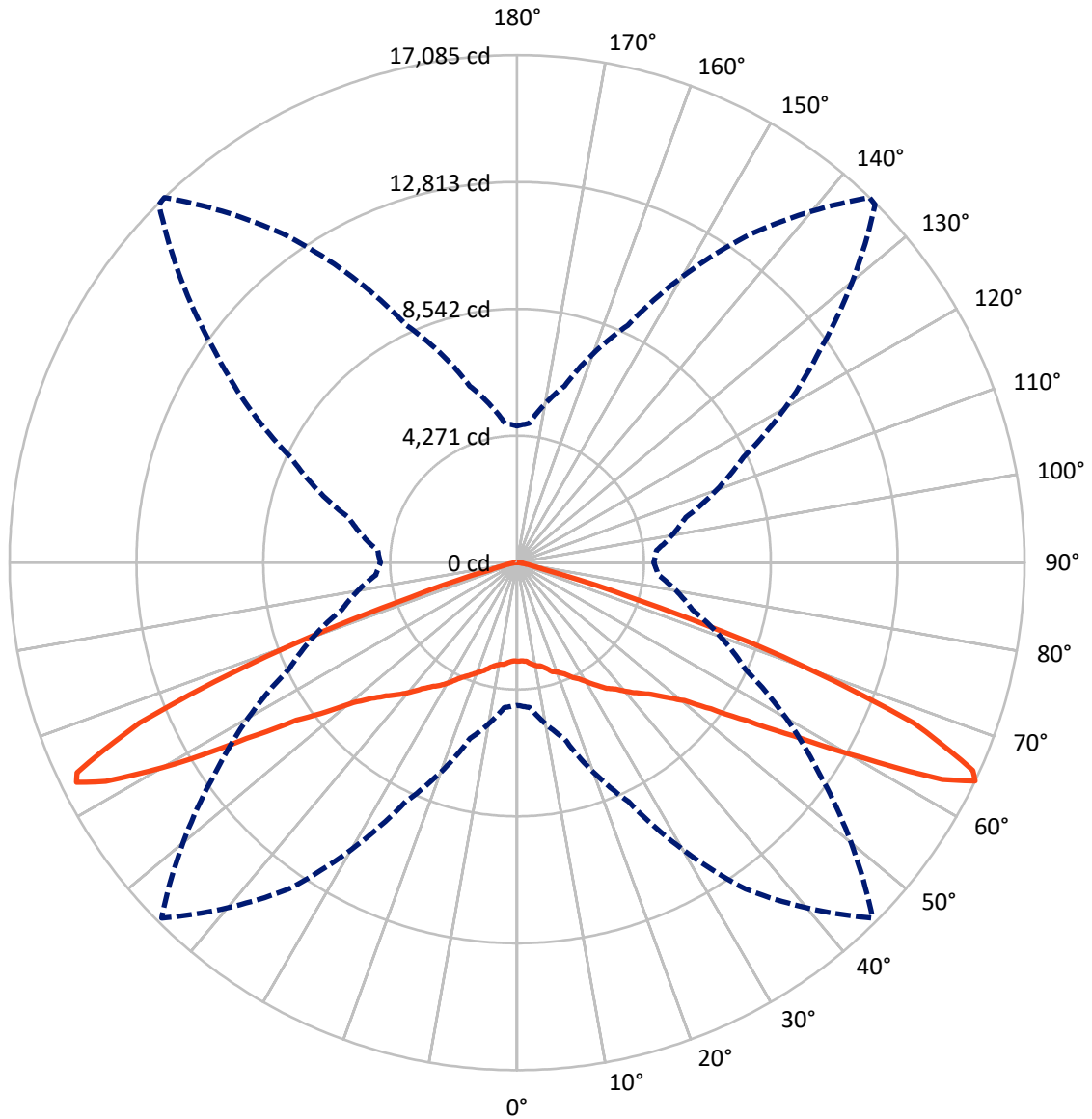
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P478958
CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478958

CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14192.0	0.0	14192.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14165.0	0.0	14165.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28357.0	0.0	28357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.2
10°-20°	1051.4	3.7
20°-30°	1976.0	7.0
30°-40°	3258.8	11.5
40°-50°	5096.5	18.0
50°-60°	8234.7	29.0
60°-70°	7414.8	26.1
70°-80°	878.3	3.1
80°-90°	120.2	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°	28357.0	100.0
0°-180°	28357.0	100.0

Coefficient of Utilization



REPORT NUMBER: P478958

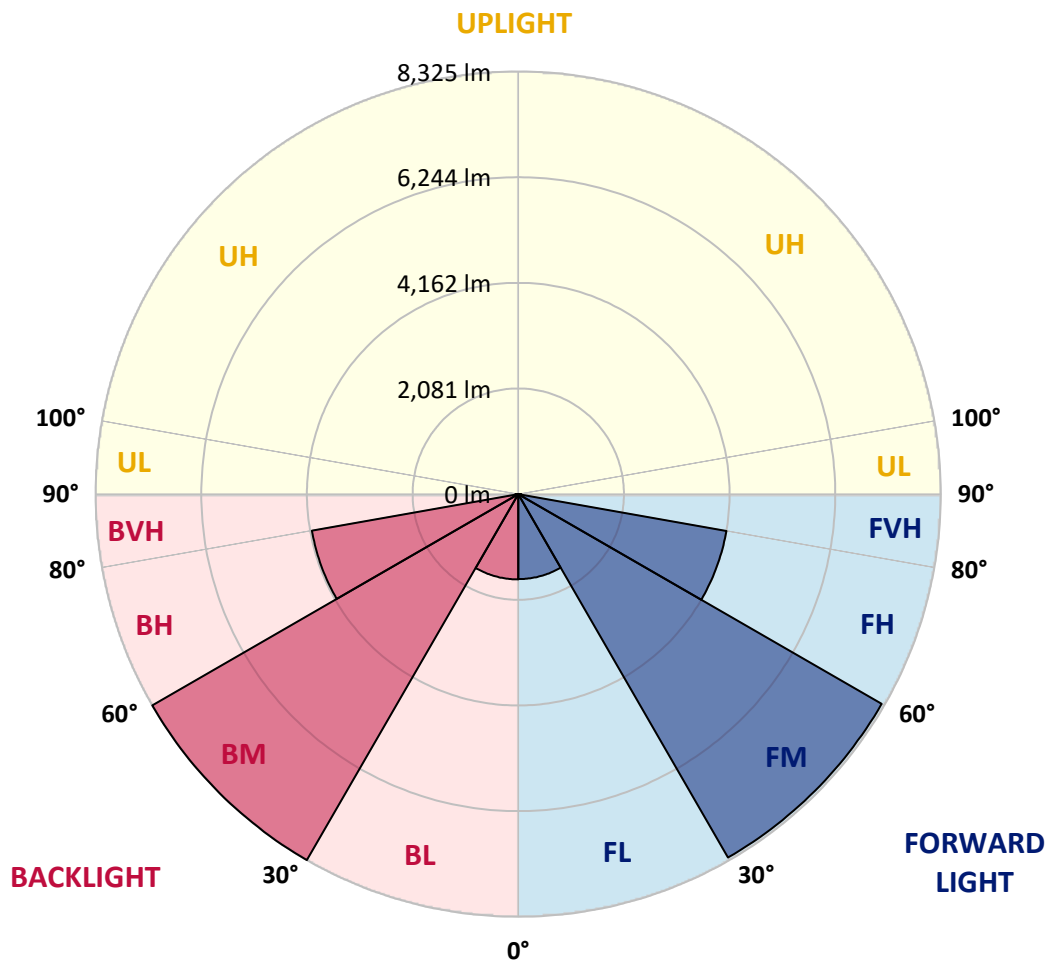
CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.6	5.9			
FM (30°-60°)	8265.2	29.1			
FH (60°-80°)	4164.5	14.7			G2/5000
FVH (80°-90°)	61.7	0.2			G1/100
BL (0°-30°)	1680.0	5.9	B3/2500		
BM (30°-60°)	8324.8	29.4	B4/8500		
BH (60°-80°)	4128.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	58.5	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





REPORT NUMBER: P478958
 CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0
2.5°	3281.0	3287.5	3346.0	3323.3	3342.8	3307.0	3333.0	3388.3	3323.3	3372.0	3388.3
5°	3316.8	3326.5	3326.5	3349.3	3362.3	3355.8	3372.0	3349.3	3411.1	3385.1	3424.1
7.5°	3446.8	3430.6	3404.6	3424.1	3427.3	3443.6	3459.8	3489.1	3479.4	3456.6	3495.6
10°	3469.6	3456.6	3495.6	3498.9	3482.6	3469.6	3485.9	3485.9	3515.1	3521.6	3521.6
12.5°	3508.6	3521.6	3518.4	3544.4	3547.6	3537.9	3563.9	3612.7	3599.7	3609.4	3586.7
15°	3658.2	3641.9	3638.7	3664.7	3707.0	3645.2	3690.7	3687.5	3674.5	3694.0	3641.9
17.5°	3788.3	3736.2	3759.0	3801.3	3785.0	3798.0	3856.6	3804.5	3817.5	3794.8	3778.5
20°	3902.1	3859.8	3863.1	3879.3	3879.3	3918.3	3941.1	3921.6	3908.6	3905.3	3911.8
22.5°	4028.9	3980.1	3983.4	4051.7	4074.4	4061.4	4045.2	4077.7	4084.2	4058.2	4087.4
25°	4123.2	4175.2	4191.5	4224.0	4175.2	4211.0	4198.0	4259.8	4298.8	4246.8	4282.5
27.5°	4370.3	4347.6	4389.8	4386.6	4425.6	4389.8	4412.6	4432.1	4448.4	4451.6	4435.4
30°	4591.5	4601.2	4558.9	4672.7	4581.7	4640.2	4679.2	4689.0	4708.5	4708.5	4659.7
32.5°	4825.6	4806.1	4874.4	4848.3	4832.1	4877.6	4835.3	4968.7	4890.6	4936.1	4880.9
35°	5089.0	5089.0	5115.0	5186.5	5089.0	5059.7	5137.7	5193.0	5193.0	5111.7	5131.2
37.5°	5384.9	5358.9	5391.4	5482.4	5407.6	5310.1	5453.2	5475.9	5459.7	5436.9	5397.9
40°	5593.0	5586.5	5651.5	5771.8	5664.5	5645.0	5671.0	5732.8	5752.3	5775.1	5723.1
42.5°	5944.2	5973.4	6162.0	6132.8	6045.0	5976.7	5970.2	6201.1	6145.8	6087.2	6058.0
45°	6464.5	6438.4	6536.0	6539.2	6425.4	6275.8	6308.4	6519.7	6614.0	6484.0	6532.7
47.5°	6877.4	6890.4	6958.7	7098.5	6835.1	6679.1	6799.4	7140.8	7111.5	7062.8	7108.3
50°	7430.2	7488.7	7703.4	7654.6	7420.5	7228.6	7492.0	7813.9	7849.7	7670.8	7638.3
52.5°	8194.4	8285.4	8402.5	8441.5	8217.1	8148.8	8165.1	8565.1	8477.3	8304.9	8194.4
55°	8864.2	8906.5	9121.1	9443.0	9426.8	9098.4	9287.0	9436.5	9078.8	8724.4	8753.7
57.5°	9150.4	9169.9	9768.2	10412.1	10795.8	10870.6	10655.9	10151.9	9300.0	8617.1	8574.8
60°	8438.3	8623.6	9345.5	10799.0	12551.7	13416.7	11989.1	10233.2	8782.9	7953.7	7892.0
62.5°	6744.1	6753.9	7826.9	10031.6	13644.3	15910.7	12499.7	9469.1	7404.2	6464.5	6217.3
64°	4802.8	4893.9	6126.3	8880.5	13416.7	16925.3	12437.9	8470.8	6103.5	4770.3	4598.0
65°	3446.8	3573.7	4763.8	7709.9	12883.4	16805.0	12252.5	7612.3	4936.1	3641.9	3466.4
67.5°	1268.2	1320.2	1869.7	3856.6	9251.2	14320.6	9709.7	4185.0	2168.9	1544.6	1388.5
70°	588.6	591.8	692.6	1274.7	4045.2	9576.4	4633.7	1570.6	816.2	647.1	601.6
72.5°	432.5	442.2	484.5	588.6	1190.1	4054.9	1521.8	643.8	478.0	422.7	413.0
75°	351.2	357.7	370.7	426.0	549.5	1086.1	617.8	445.5	380.5	341.4	328.4
77.5°	269.9	269.9	299.2	325.2	364.2	507.3	409.7	354.4	308.9	269.9	260.1
80°	195.1	198.4	234.1	253.6	247.1	334.9	295.9	292.7	253.6	211.4	195.1
82.5°	113.8	123.6	169.1	182.1	175.6	198.4	214.6	227.6	198.4	146.3	133.3
85°	65.0	68.3	97.6	100.8	100.8	94.3	123.6	136.6	133.3	91.0	81.3
87.5°	19.5	19.5	26.0	26.0	29.3	32.5	48.8	58.5	65.0	45.5	42.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478958
 CATALOG NUMBER: IFLD-M-SA4C-740-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0	3320.0
2.5°	3372.0	3323.3	3326.5	3339.5	3297.3	3313.5	3362.3	3326.5	3316.8	3297.3	3287.5
5°	3355.8	3407.8	3388.3	3394.8	3385.1	3339.5	3333.0	3362.3	3378.6	3349.3	3407.8
7.5°	3469.6	3446.8	3420.8	3430.6	3407.8	3446.8	3472.9	3414.3	3443.6	3427.3	3394.8
10°	3534.6	3492.4	3511.9	3505.4	3489.1	3528.1	3502.1	3495.6	3469.6	3433.8	3485.9
12.5°	3557.4	3606.2	3638.7	3583.4	3593.2	3573.7	3557.4	3557.4	3528.1	3518.4	3528.1
15°	3658.2	3700.5	3687.5	3729.7	3674.5	3694.0	3713.5	3664.7	3690.7	3619.2	3674.5
17.5°	3843.6	3807.8	3853.3	3798.0	3817.5	3856.6	3794.8	3794.8	3814.3	3775.3	3726.5
20°	3960.6	3944.4	3928.1	3931.3	3898.8	3934.6	3915.1	3905.3	3876.1	3889.1	3915.1
22.5°	4071.2	4048.4	4054.9	4064.7	4087.4	4071.2	4061.4	4071.2	3999.6	4064.7	3973.6
25°	4207.7	4269.5	4250.0	4292.3	4227.3	4269.5	4266.3	4204.5	4243.5	4217.5	4198.0
27.5°	4435.4	4402.9	4432.1	4380.1	4425.6	4428.9	4389.8	4493.9	4448.4	4441.9	4428.9
30°	4728.0	4705.3	4685.8	4656.5	4692.3	4663.0	4695.5	4705.3	4663.0	4630.5	4568.7
32.5°	4893.9	4955.6	4978.4	4906.9	4910.1	4926.4	4897.1	4867.8	4893.9	4903.6	4893.9
35°	5128.0	5186.5	5199.5	5144.2	5115.0	5196.3	5137.7	5235.3	5150.7	5154.0	5066.2
37.5°	5401.1	5417.4	5528.0	5466.2	5440.2	5401.1	5508.4	5495.4	5514.9	5358.9	5436.9
40°	5710.0	5768.6	5830.4	5674.3	5671.0	5706.8	5700.3	5775.1	5739.3	5716.6	5661.3
42.5°	6048.2	6171.8	6181.5	6077.5	6012.5	6006.0	6038.5	6204.3	6207.6	6058.0	5992.9
45°	6497.0	6633.5	6597.8	6396.2	6324.6	6314.9	6474.2	6545.7	6607.5	6549.0	6493.7
47.5°	7056.3	7147.3	7121.3	6936.0	6705.1	6770.1	6926.2	7150.6	7085.5	7007.5	6942.5
50°	7654.6	7761.9	7706.6	7521.3	7300.1	7300.1	7492.0	7778.2	7758.6	7605.8	7547.3
52.5°	8317.9	8474.0	8600.8	8337.5	8152.1	8181.4	8483.8	8587.8	8539.1	8431.8	8383.0
55°	8812.2	9111.4	9371.5	9384.5	9394.3	9391.0	9469.1	9573.1	9225.2	9052.8	8877.2
57.5°	8691.9	9257.7	10148.7	10753.5	10932.3	11026.6	11000.6	10519.4	9696.7	9130.9	9189.4
60°	7833.4	8756.9	10194.2	12135.5	13436.2	13306.1	12831.3	10929.1	9436.5	8480.5	8360.2
62.5°	6249.8	7361.9	9430.0	12525.7	16109.1	16070.1	13585.8	9982.8	7862.7	6653.1	6578.3
64°	4708.5	5879.1	8412.2	12424.9	17045.6	17084.6	13393.9	8818.7	6152.3	4708.5	4594.7
65°	3602.9	4689.0	7414.0	12216.8	16844.0	16866.8	12860.6	7615.6	4676.0	3342.8	3219.2
67.5°	1434.0	1996.6	4022.4	9264.2	14463.7	14401.9	9176.4	3684.2	1788.5	1164.1	1141.4
70°	611.3	760.9	1411.3	4389.8	9683.7	9504.8	3950.9	1196.6	663.4	556.0	552.8
72.5°	419.5	465.0	604.8	1356.0	4025.6	3931.3	1125.1	556.0	452.0	416.2	416.2
75°	338.2	370.7	439.0	569.1	1066.6	1027.5	530.0	409.7	360.9	334.9	331.7
77.5°	263.4	295.9	344.7	393.5	487.8	484.5	354.4	308.9	279.6	260.1	253.6
80°	208.1	240.6	273.1	279.6	318.7	312.2	240.6	243.9	227.6	188.6	185.3
82.5°	143.1	195.1	217.9	198.4	188.6	188.6	172.3	172.3	159.3	117.1	107.3
85°	87.8	130.1	136.6	117.1	87.8	87.8	94.3	91.0	84.5	61.8	58.5
87.5°	45.5	61.8	55.3	45.5	29.3	29.3	26.0	19.5	19.5	16.3	16.3
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)