

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: P479428

Luminaire Tested: **IFLD-M-SA4E-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

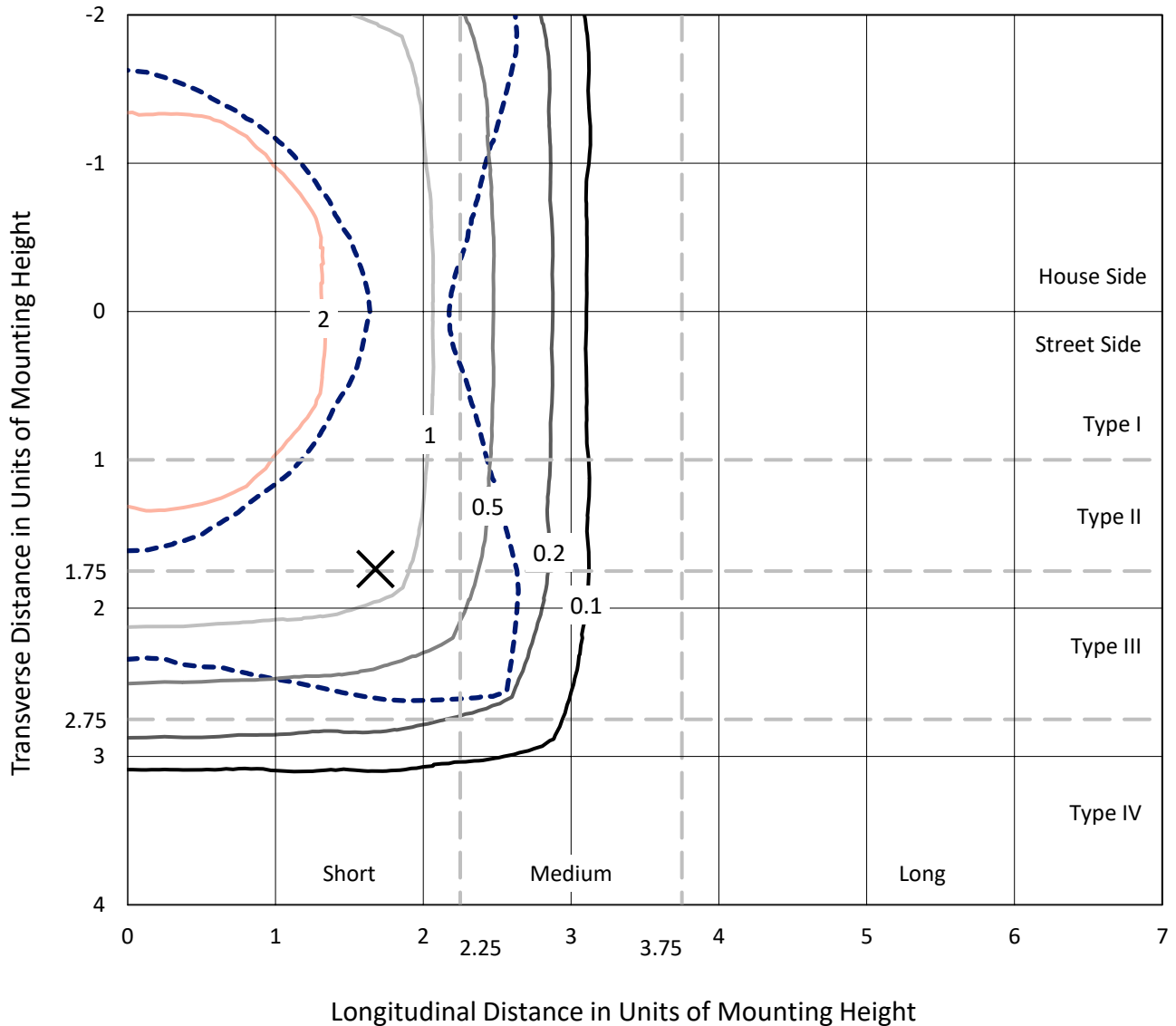
Lumens per Lamp: N/A
Luminaire Lumens: 37382.1 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 314.8
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

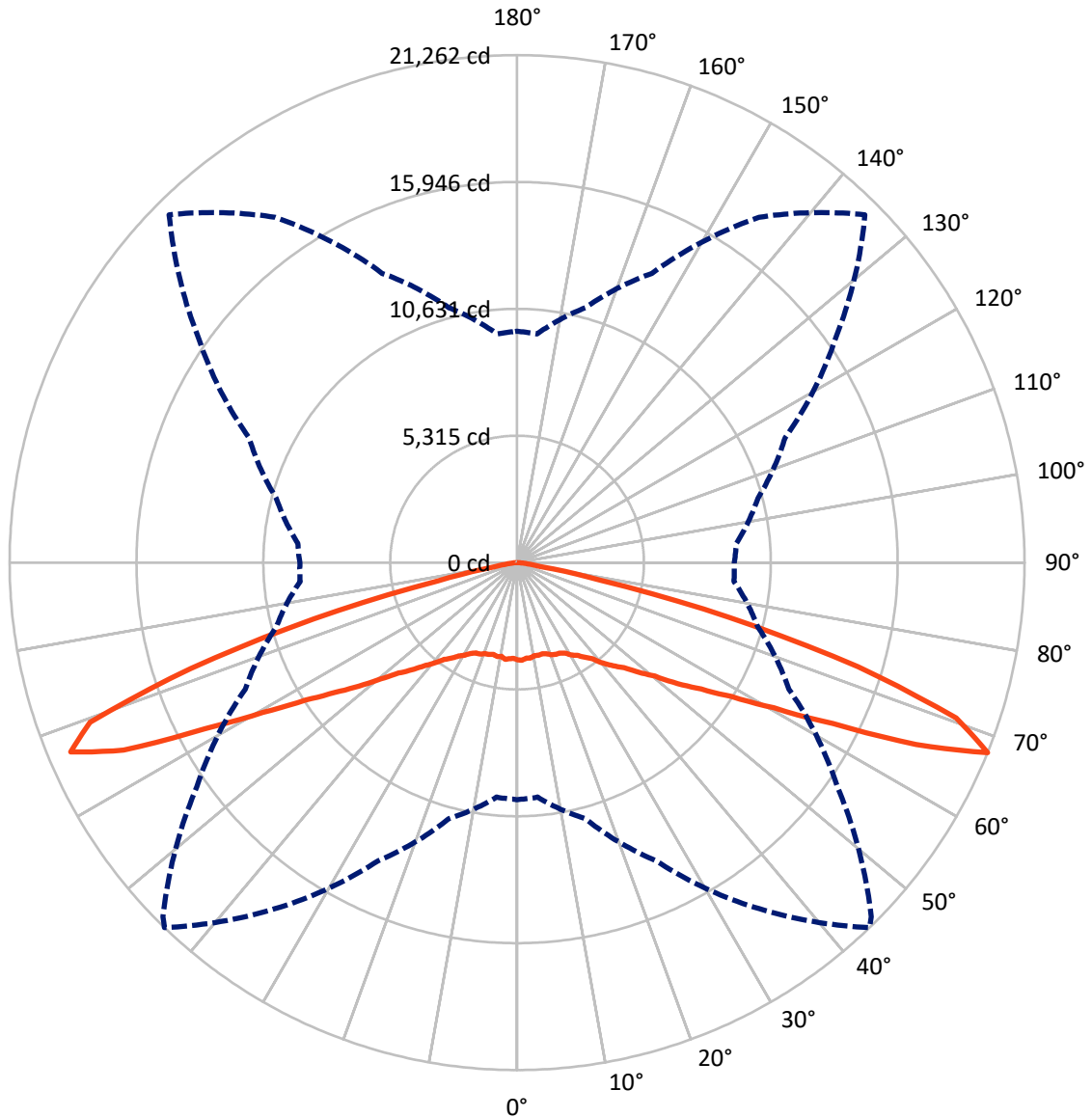
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	18643.2	0.0	18643.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18738.9	0.0	18738.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	37382.1	0.0	37382.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	1.0
10°-20°	1128.9	3.0
20°-30°	1919.7	5.1
30°-40°	3043.8	8.1
40°-50°	4963.2	13.3
50°-60°	8476.4	22.7
60°-70°	12892.5	34.5
70°-80°	4345.6	11.6
80°-90°	225.6	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°	37382.1	100.0
0°-180°	37382.1	100.0

Coefficient of Utilization



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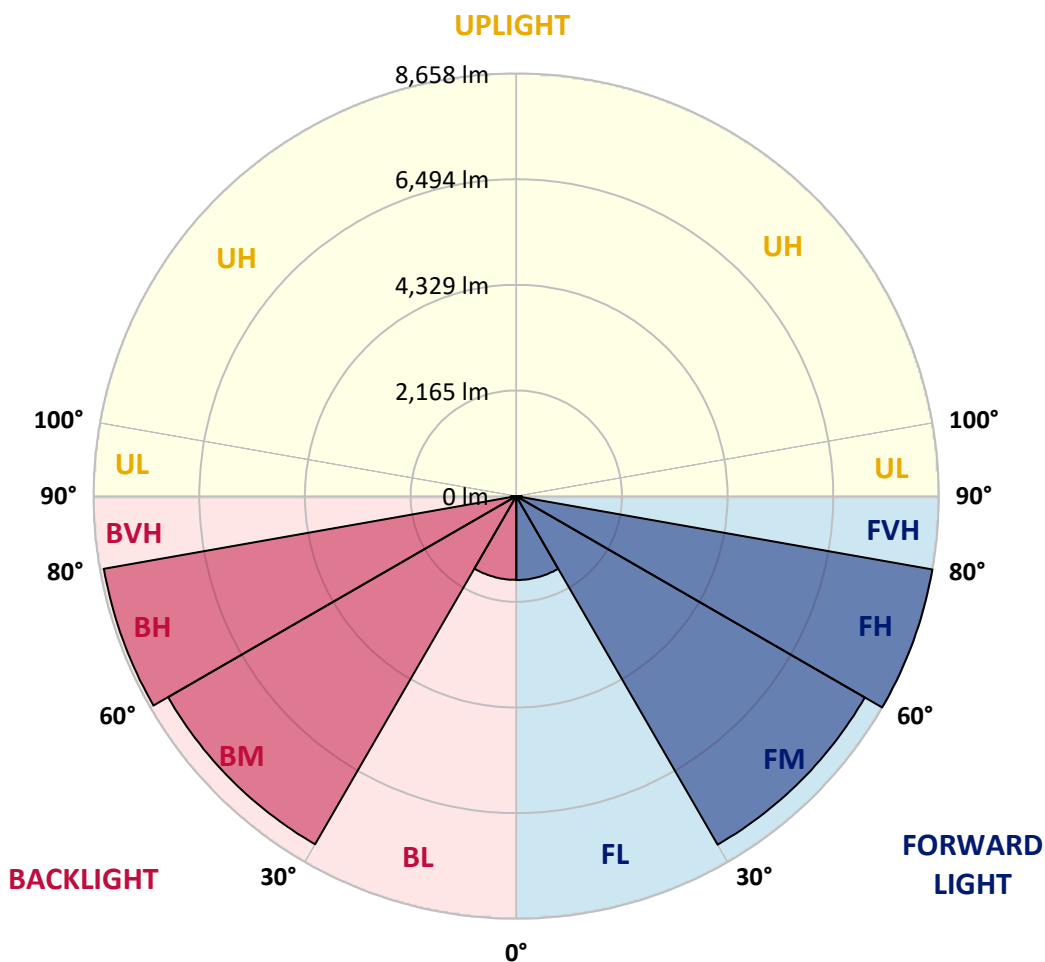
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.3	4.6			
FM (30°-60°)	8246.1	22.1			
FH (60°-80°)	8658.1	23.2			G4/12000
FVH (80°-90°)	115.4	0.3			G2/225
BL (0°-30°)	1715.7	4.6	B3/2500		
BM (30°-60°)	8237.2	22.0	B4/8500		
BH (60°-80°)	8580.0	23.0	B5		G4/12000
BVH (80°-90°)	110.2	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°	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4
2.5°	3989.5	4036.4	4070.6	4066.3	4079.1	4091.9	4074.8	4100.4	4083.4	4113.2	4130.3
5°	4066.3	4053.5	4057.8	4032.1	4091.9	4023.6	4023.6	4057.8	4100.4	4049.2	4079.1
7.5°	4019.3	4010.8	3989.5	4027.9	4040.7	4040.7	4074.8	4010.8	4083.4	4100.4	4104.7
10°	3968.1	3921.2	3985.2	4023.6	4032.1	3963.9	3993.7	4010.8	3989.5	4010.8	4023.6
12.5°	3925.5	3951.1	3951.1	3951.1	3938.3	3985.2	4015.1	4010.8	3968.1	4006.5	3938.3
15°	3921.2	3908.4	3946.8	3980.9	3959.6	3968.1	3980.9	4019.3	3938.3	3955.3	3955.3
17.5°	3916.9	3934.0	3946.8	3942.5	4015.1	4015.1	4002.3	3976.7	4040.7	4006.5	3959.6
20°	3934.0	3921.2	3955.3	3968.1	4019.3	4121.8	4083.4	4062.0	4027.9	3985.2	3985.2
22.5°	3955.3	3946.8	3993.7	4049.2	4147.4	4173.0	4168.7	4143.1	4083.4	4032.1	4023.6
25°	4032.1	3955.3	4006.5	4113.2	4147.4	4198.6	4232.7	4198.6	4117.5	4130.3	4053.5
27.5°	4147.4	4134.6	4202.8	4275.4	4245.5	4292.4	4262.6	4288.2	4292.4	4228.4	4151.6
30°	4283.9	4245.5	4288.2	4429.0	4441.8	4493.0	4441.8	4373.5	4394.8	4339.4	4301.0
32.5°	4480.2	4467.4	4548.4	4642.3	4659.4	4633.8	4608.2	4646.6	4557.0	4514.3	4446.0
35°	4608.2	4663.6	4761.8	4834.3	4889.8	4864.2	4877.0	4838.6	4859.9	4770.3	4740.4
37.5°	4987.9	4966.6	4987.9	5111.7	5124.5	5111.7	5124.5	5167.1	5137.3	5060.5	4983.7
40°	5346.3	5312.2	5363.4	5504.2	5495.7	5538.3	5453.0	5499.9	5499.9	5354.9	5325.0
42.5°	5615.1	5730.3	5790.1	5905.3	5948.0	5909.6	5892.5	5901.0	5994.9	5824.2	5760.2
45°	6169.8	6165.6	6344.8	6408.8	6289.3	6280.8	6246.6	6349.0	6413.0	6314.9	6289.3
47.5°	6771.5	6801.3	6903.7	6929.3	7001.9	6869.6	6869.6	6882.4	7108.5	6878.1	6758.7
50°	7313.3	7351.7	7556.5	7757.1	7620.5	7479.7	7535.2	7603.5	7727.2	7509.6	7407.2
52.5°	7970.4	8179.5	8316.0	8422.7	8520.8	8422.7	8294.7	8371.5	8614.7	8324.6	8196.6
55°	8917.7	9084.1	9212.1	9408.3	9489.4	9357.1	9344.3	9335.8	9472.4	9165.1	8990.2
57.5°	9975.8	9907.6	10112.4	10415.3	10709.7	10581.7	10543.3	10551.9	10586.0	10150.8	10018.5
60°	11290.0	11366.8	11610.0	11874.6	12186.1	12365.3	12113.5	11968.4	11998.3	11405.2	11200.4
62.5°	12041.0	12211.7	12762.1	13670.9	14298.1	14857.1	14895.5	13952.5	13321.0	12169.0	11298.6
65°	11678.3	11652.7	12689.5	14370.7	16747.3	18372.9	18129.7	15842.7	13636.8	11806.3	10637.2
67.5°	9933.2	9864.9	11119.3	13786.1	17711.6	21261.6	20984.2	16376.1	12570.1	10445.2	9122.5
70°	6400.2	6383.2	7744.3	10509.2	15812.9	19520.7	19623.1	14874.2	10231.8	7650.4	6340.5
72.5°	2325.4	2466.2	3255.6	5649.3	10739.6	14933.9	14997.9	11012.7	5884.0	3537.2	2607.0
75°	857.6	883.2	1028.3	1834.7	4894.0	9169.4	9408.3	5342.1	2090.7	1152.0	938.7
77.5°	495.0	499.2	550.4	682.7	1450.7	3579.9	3724.9	1621.4	810.7	614.4	567.5
80°	337.1	332.8	388.3	443.7	580.3	1015.5	1079.5	678.4	512.0	426.7	358.4
82.5°	196.3	209.1	285.9	315.7	354.1	448.0	456.6	422.4	384.0	315.7	234.7
85°	119.5	98.1	157.9	174.9	204.8	200.5	200.5	230.4	247.5	221.9	132.3
87.5°	29.9	29.9	38.4	42.7	55.5	42.7	46.9	89.6	119.5	110.9	68.3
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°	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4	4083.4
2.5°	4091.9	4079.1	4087.6	4134.6	4104.7	4015.1	4036.4	4083.4	4044.9	4023.6	4019.3
5°	4074.8	4100.4	4070.6	4079.1	4109.0	4036.4	4049.2	4109.0	4083.4	4091.9	4044.9
7.5°	4079.1	4091.9	4066.3	4027.9	4027.9	4087.6	4053.5	4062.0	4023.6	4087.6	4002.3
10°	4053.5	4019.3	3989.5	4010.8	4002.3	3985.2	3972.4	3998.0	3959.6	4015.1	3955.3
12.5°	3976.7	3985.2	3976.7	3968.1	3985.2	4027.9	3959.6	3968.1	3908.4	3916.9	3946.8
15°	3946.8	3972.4	3963.9	4010.8	4032.1	3968.1	4019.3	3968.1	3921.2	3895.6	3942.5
17.5°	3959.6	3998.0	3985.2	4019.3	3980.9	4027.9	4036.4	4015.1	3959.6	3938.3	3959.6
20°	3972.4	3959.6	3976.7	4036.4	4091.9	4044.9	4044.9	4032.1	3980.9	3951.1	3951.1
22.5°	4002.3	3980.9	4006.5	4053.5	4070.6	4143.1	4079.1	4049.2	3963.9	3887.1	3959.6
25°	4062.0	4074.8	4091.9	4074.8	4168.7	4160.2	4151.6	4130.3	3998.0	4002.3	3989.5
27.5°	4177.2	4104.7	4126.0	4228.4	4241.2	4275.4	4232.7	4271.1	4130.3	4134.6	4049.2
30°	4318.0	4241.2	4309.5	4399.1	4394.8	4458.8	4437.5	4446.0	4347.9	4292.4	4177.2
32.5°	4471.6	4463.1	4505.8	4561.2	4582.6	4616.7	4612.4	4612.4	4552.7	4407.6	4429.0
35°	4642.3	4702.0	4753.2	4813.0	4821.5	4864.2	4804.4	4813.0	4753.2	4646.6	4680.7
37.5°	4979.4	4975.1	5030.6	5103.1	5111.7	5077.5	5124.5	5103.1	5022.1	4949.5	4894.0
40°	5371.9	5286.6	5337.8	5508.5	5521.3	5461.5	5457.3	5453.0	5393.3	5235.4	5201.3
42.5°	5713.3	5824.2	5815.7	5871.2	5832.7	5802.9	5909.6	5849.8	5802.9	5636.5	5606.6
45°	6152.8	6186.9	6297.8	6477.0	6293.6	6293.6	6366.1	6319.2	6293.6	6169.8	6054.6
47.5°	6698.9	6728.8	6950.7	6963.5	6844.0	6762.9	6989.1	6997.6	6890.9	6797.1	6656.2
50°	7338.9	7351.7	7552.3	7757.1	7624.8	7471.2	7701.6	7791.2	7552.3	7424.3	7249.3
52.5°	8043.0	8004.6	8171.0	8555.0	8427.0	8380.0	8627.5	8648.9	8324.6	8124.0	8171.0
55°	8853.7	8802.5	9254.7	9515.0	9433.9	9348.6	9459.6	9510.8	9250.5	8921.9	9037.1
57.5°	9903.3	9928.9	10155.0	10411.1	10543.3	10564.7	10615.9	10564.7	10300.1	9967.3	9860.6
60°	10952.9	11029.7	11469.2	11951.4	11994.0	12369.5	12301.3	12045.2	11669.8	11196.1	11217.5
62.5°	11341.2	11277.2	11985.5	13163.2	14165.9	14852.8	14549.9	13641.0	12770.6	11908.7	11972.7
65°	10560.4	10718.3	11682.6	13525.8	15701.9	18419.9	16807.0	14293.9	12535.9	11422.3	11298.6
67.5°	9101.1	9220.6	10445.2	12390.9	16252.3	20613.0	17660.4	13372.2	11055.3	9613.2	9690.0
70°	6340.5	6400.2	7599.2	10150.8	14737.6	19452.5	15932.3	10270.2	7633.3	6084.5	6169.8
72.5°	2551.6	2696.6	3486.0	6114.4	10880.4	14780.3	10726.8	5389.0	3166.0	2355.3	2137.7
75°	943.0	947.2	1113.6	2103.5	5167.1	9288.9	4838.6	1732.3	1011.2	827.8	789.4
77.5°	546.2	541.9	580.3	759.5	1497.7	3626.8	1373.9	678.4	550.4	495.0	473.6
80°	341.3	337.1	396.8	503.5	657.1	994.2	580.3	422.4	371.2	320.0	320.0
82.5°	217.6	221.9	311.5	371.2	401.1	439.5	337.1	298.7	277.3	183.5	179.2
85°	140.8	128.0	217.6	247.5	221.9	196.3	187.7	157.9	145.1	89.6	98.1
87.5°	64.0	68.3	110.9	123.7	81.1	46.9	46.9	34.1	34.1	21.3	21.3
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)