

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: P479198

Luminaire Tested: **IFLD-L-SA7D-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479198
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

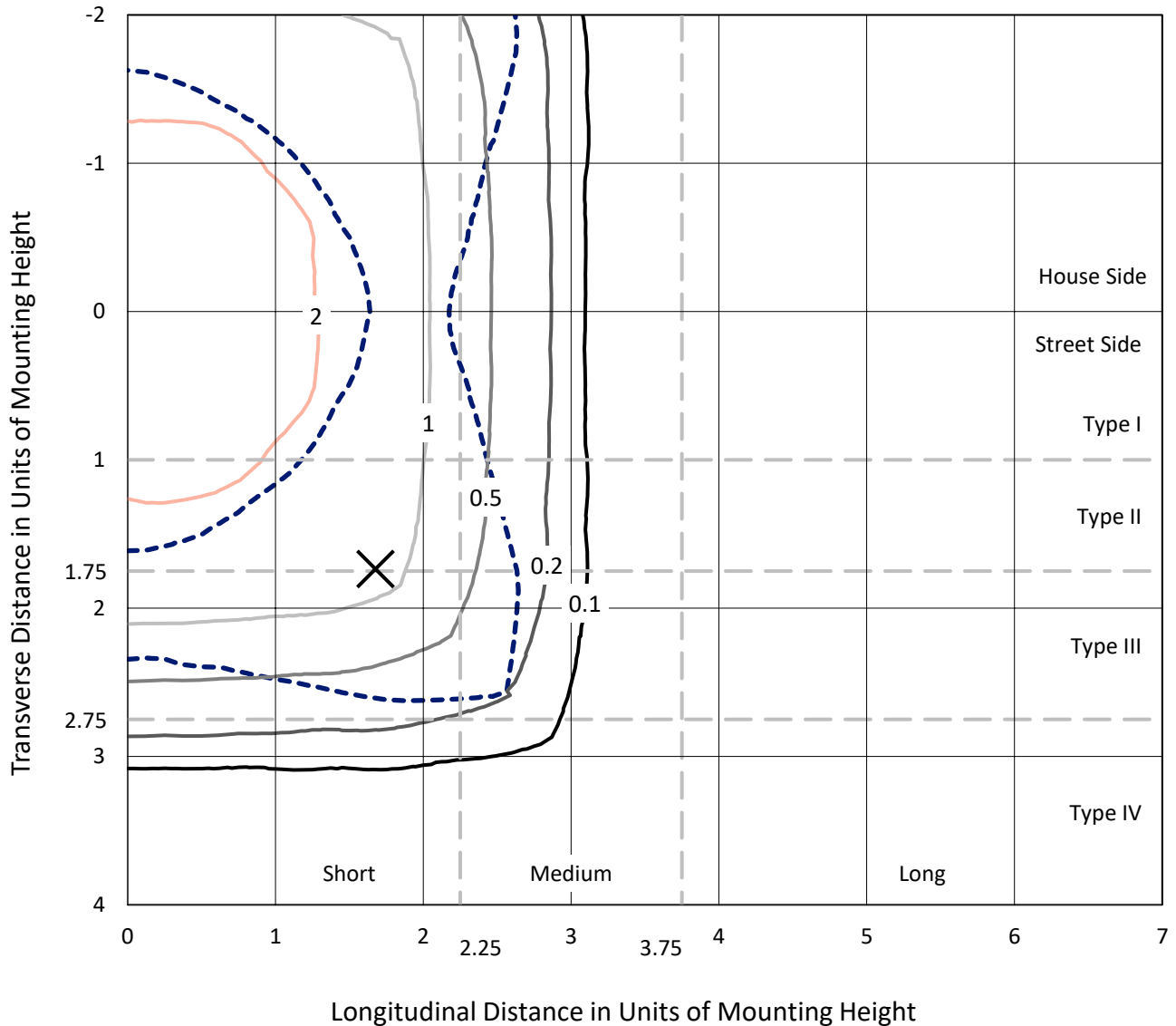
Lumens per Lamp: N/A
Luminaire Lumens: 36268.7 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 422.6
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

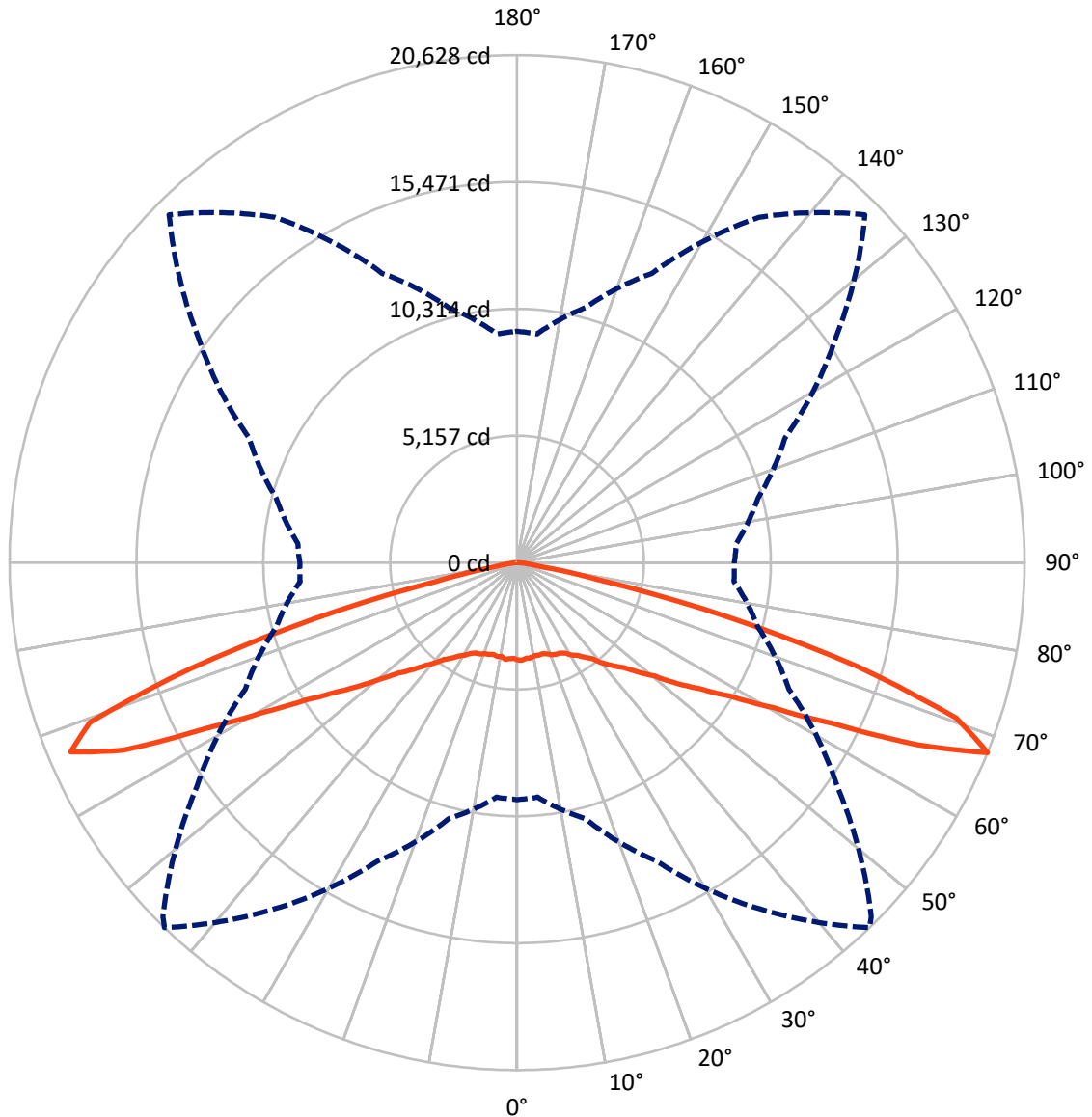
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	18087.9	0.0	18087.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18180.8	0.0	18180.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	36268.7	0.0	36268.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	1.0
10°-20°	1095.3	3.0
20°-30°	1862.5	5.1
30°-40°	2953.1	8.1
40°-50°	4815.3	13.3
50°-60°	8224.0	22.7
60°-70°	12508.5	34.5
70°-80°	4216.2	11.6
80°-90°	218.9	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°	36268.7	100.0
0°-180°	36268.7	100.0

Coefficient of Utilization



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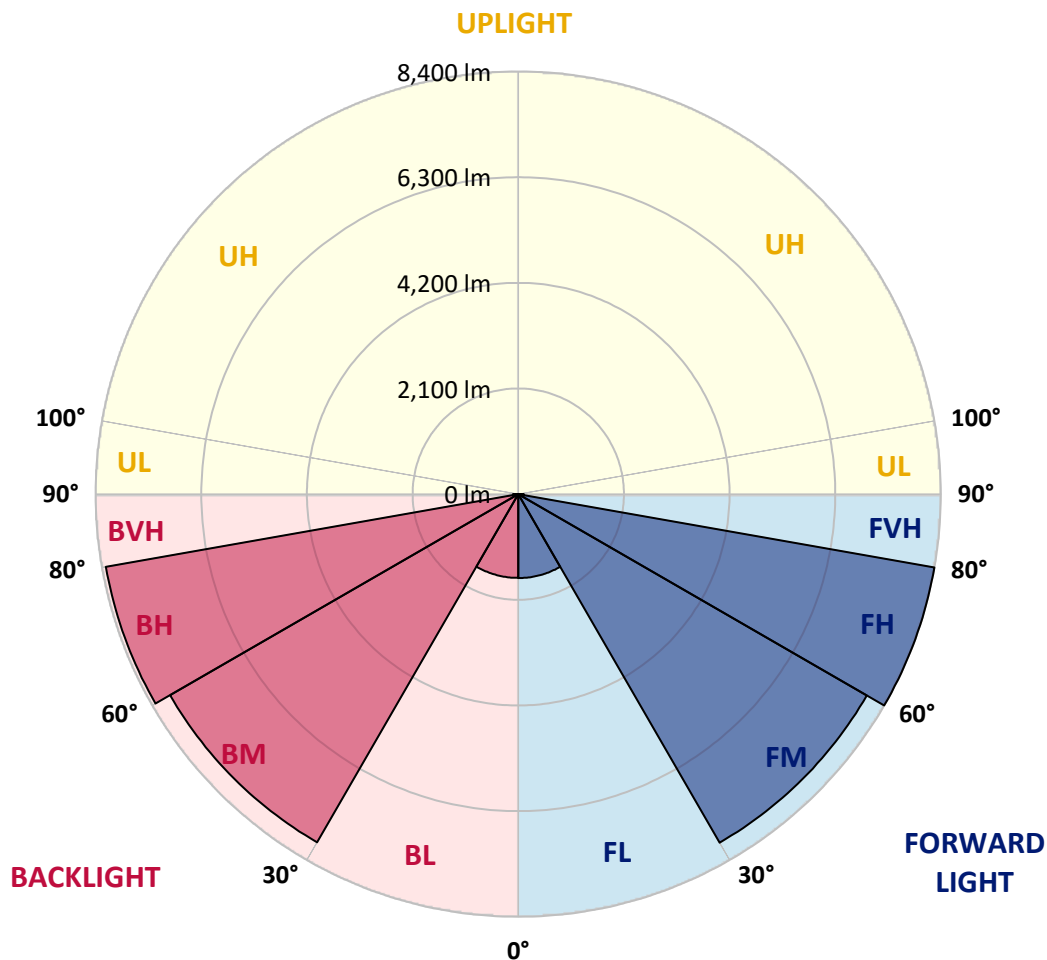
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.1	4.6			
FM (30°-60°)	8000.5	22.1			
FH (60°-80°)	8400.2	23.2			G4/12000
FVH (80°-90°)	112.0	0.3			G2/225
BL (0°-30°)	1664.6	4.6	B3/2500		
BM (30°-60°)	7991.9	22.0	B4/8500		
BH (60°-80°)	8324.5	23.0	B5		G4/12000
BVH (80°-90°)	106.9	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°	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7
2.5°	3870.7	3916.2	3949.3	3945.2	3957.6	3970.0	3953.5	3978.3	3961.7	3990.7	4007.3
5°	3945.2	3932.8	3936.9	3912.1	3970.0	3903.8	3903.8	3936.9	3978.3	3928.6	3957.6
7.5°	3899.6	3891.4	3870.7	3907.9	3920.3	3920.3	3953.5	3891.4	3961.7	3978.3	3982.4
10°	3850.0	3804.4	3866.5	3903.8	3912.1	3845.8	3874.8	3891.4	3870.7	3891.4	3903.8
12.5°	3808.6	3833.4	3833.4	3833.4	3821.0	3866.5	3895.5	3891.4	3850.0	3887.2	3821.0
15°	3804.4	3792.0	3829.3	3862.4	3841.7	3850.0	3862.4	3899.6	3821.0	3837.5	3837.5
17.5°	3800.3	3816.8	3829.3	3825.1	3895.5	3895.5	3883.1	3858.2	3920.3	3887.2	3841.7
20°	3816.8	3804.4	3837.5	3850.0	3899.6	3999.0	3961.7	3941.0	3907.9	3866.5	3866.5
22.5°	3837.5	3829.3	3874.8	3928.6	4023.8	4048.7	4044.5	4019.7	3961.7	3912.1	3903.8
25°	3912.1	3837.5	3887.2	3990.7	4023.8	4073.5	4106.6	4073.5	3994.9	4007.3	3932.8
27.5°	4023.8	4011.4	4077.6	4148.0	4119.0	4164.6	4135.6	4160.4	4164.6	4102.5	4028.0
30°	4156.3	4119.0	4160.4	4297.1	4309.5	4359.1	4309.5	4243.2	4263.9	4210.1	4172.9
32.5°	4346.7	4334.3	4413.0	4504.0	4520.6	4495.8	4470.9	4508.2	4421.2	4379.8	4313.6
35°	4470.9	4524.7	4620.0	4690.3	4744.1	4719.3	4731.7	4694.5	4715.2	4628.2	4599.3
37.5°	4839.4	4818.7	4839.4	4959.4	4971.8	4959.4	4971.8	5013.2	4984.2	4909.7	4835.2
40°	5187.1	5154.0	5203.7	5340.3	5332.0	5373.4	5290.6	5336.1	5336.1	5195.4	5166.4
42.5°	5447.9	5559.7	5617.6	5729.4	5770.8	5733.5	5717.0	5725.3	5816.3	5650.7	5588.7
45°	5986.1	5981.9	6155.8	6217.9	6102.0	6093.7	6060.6	6159.9	6222.0	6126.8	6102.0
47.5°	6569.8	6598.7	6698.1	6722.9	6793.3	6665.0	6665.0	6677.4	6896.8	6673.3	6557.4
50°	7095.5	7132.8	7331.5	7526.1	7393.6	7257.0	7310.8	7377.0	7497.1	7285.9	7186.6
52.5°	7733.0	7935.9	8068.4	8171.9	8267.1	8171.9	8047.7	8122.2	8358.1	8076.6	7952.4
55°	8652.1	8813.5	8937.7	9128.1	9206.8	9078.5	9066.0	9057.8	9190.2	8892.2	8722.4
57.5°	9678.7	9612.5	9811.2	10105.1	10390.8	10266.6	10229.3	10237.6	10270.7	9848.4	9720.1
60°	10953.8	11028.3	11264.2	11520.9	11823.1	11997.0	11752.7	11612.0	11641.0	11065.5	10866.8
62.5°	11682.4	11847.9	12382.0	13263.7	13872.3	14414.6	14451.8	13537.0	12924.3	11806.5	10962.0
65°	11330.5	11305.6	12311.6	13942.7	16248.5	17825.7	17589.8	15370.9	13230.6	11454.7	10320.4
67.5°	9637.3	9571.1	10788.2	13375.5	17184.1	20628.3	20359.2	15888.3	12195.7	10134.1	8850.8
70°	6209.6	6193.1	7513.6	10196.2	15341.9	18939.3	19038.7	14431.1	9927.1	7422.6	6151.7
72.5°	2256.2	2392.8	3158.6	5481.0	10419.7	14489.1	14551.2	10684.7	5708.7	3431.8	2529.4
75°	832.1	856.9	997.7	1780.1	4748.3	8896.3	9128.1	5183.0	2028.5	1117.7	910.7
77.5°	480.2	484.3	534.0	662.4	1407.5	3473.2	3614.0	1573.1	786.6	596.1	550.6
80°	327.0	322.9	376.7	430.5	563.0	985.3	1047.4	658.2	496.8	414.0	347.7
82.5°	190.4	202.8	277.4	306.3	343.6	434.7	443.0	409.8	372.6	306.3	227.7
85°	115.9	95.2	153.2	169.7	198.7	194.6	194.6	223.5	240.1	215.3	128.3
87.5°	29.0	29.0	37.3	41.4	53.8	41.4	45.5	86.9	115.9	107.6	66.2
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°	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7	3961.7
2.5°	3970.0	3957.6	3965.9	4011.4	3982.4	3895.5	3916.2	3961.7	3924.5	3903.8	3899.6
5°	3953.5	3978.3	3949.3	3957.6	3986.6	3916.2	3928.6	3986.6	3961.7	3970.0	3924.5
7.5°	3957.6	3970.0	3945.2	3907.9	3907.9	3965.9	3932.8	3941.0	3903.8	3965.9	3883.1
10°	3932.8	3899.6	3870.7	3891.4	3883.1	3866.5	3854.1	3878.9	3841.7	3895.5	3837.5
12.5°	3858.2	3866.5	3858.2	3850.0	3866.5	3907.9	3841.7	3850.0	3792.0	3800.3	3829.3
15°	3829.3	3854.1	3845.8	3891.4	3912.1	3850.0	3899.6	3850.0	3804.4	3779.6	3825.1
17.5°	3841.7	3878.9	3866.5	3899.6	3862.4	3907.9	3916.2	3895.5	3841.7	3821.0	3841.7
20°	3854.1	3841.7	3858.2	3916.2	3970.0	3924.5	3924.5	3912.1	3862.4	3833.4	3833.4
22.5°	3883.1	3862.4	3887.2	3932.8	3949.3	4019.7	3957.6	3928.6	3845.8	3771.3	3841.7
25°	3941.0	3953.5	3970.0	3953.5	4044.5	4036.2	4028.0	4007.3	3878.9	3883.1	3870.7
27.5°	4052.8	3982.4	4003.1	4102.5	4114.9	4148.0	4106.6	4143.9	4007.3	4011.4	3928.6
30°	4189.4	4114.9	4181.1	4268.1	4263.9	4326.0	4305.3	4313.6	4218.4	4164.6	4052.8
32.5°	4338.4	4330.2	4371.6	4425.4	4446.1	4479.2	4475.1	4475.1	4417.1	4276.4	4297.1
35°	4504.0	4562.0	4611.7	4669.6	4677.9	4719.3	4661.3	4669.6	4611.7	4508.2	4541.3
37.5°	4831.1	4826.9	4880.8	4951.1	4959.4	4926.3	4971.8	4951.1	4872.5	4802.1	4748.3
40°	5211.9	5129.1	5178.8	5344.4	5356.8	5298.9	5294.7	5290.6	5232.6	5079.5	5046.3
42.5°	5543.1	5650.7	5642.5	5696.3	5659.0	5630.0	5733.5	5675.6	5630.0	5468.6	5439.6
45°	5969.5	6002.6	6110.3	6284.1	6106.1	6106.1	6176.5	6131.0	6106.1	5986.1	5874.3
47.5°	6499.4	6528.4	6743.6	6756.1	6640.1	6561.5	6780.9	6789.2	6685.7	6594.6	6458.0
50°	7120.4	7132.8	7327.3	7526.1	7397.7	7248.7	7472.2	7559.2	7327.3	7203.2	7033.4
52.5°	7803.4	7766.2	7927.6	8300.2	8176.0	8130.5	8370.6	8391.3	8076.6	7882.1	7927.6
55°	8590.0	8540.3	8979.1	9231.6	9153.0	9070.2	9177.8	9227.5	8975.0	8656.2	8768.0
57.5°	9608.3	9633.2	9852.6	10101.0	10229.3	10250.0	10299.7	10250.0	9993.3	9670.4	9566.9
60°	10626.7	10701.2	11127.6	11595.4	11636.8	12001.1	11934.9	11686.5	11322.2	10862.7	10883.4
62.5°	11003.4	10941.3	11628.5	12771.1	13743.9	14410.4	14116.5	13234.8	12390.2	11554.0	11616.1
65°	10245.9	10399.0	11334.6	13123.0	15234.2	17871.3	16306.4	13868.1	12162.6	11082.1	10962.0
67.5°	8830.1	8946.0	10134.1	12021.8	15768.3	19999.1	17134.4	12974.0	10726.1	9326.8	9401.4
70°	6151.7	6209.6	7372.9	9848.4	14298.7	18873.1	15457.8	9964.4	7406.0	5903.3	5986.1
72.5°	2475.6	2616.3	3382.2	5932.2	10556.3	14340.1	10407.3	5228.5	3071.7	2285.1	2074.0
75°	914.9	919.0	1080.5	2040.9	5013.2	9012.2	4694.5	1680.7	981.1	803.1	765.9
77.5°	529.9	525.7	563.0	736.9	1453.0	3518.8	1333.0	658.2	534.0	480.2	459.5
80°	331.2	327.0	385.0	488.5	637.5	964.6	563.0	409.8	360.2	310.5	310.5
82.5°	211.1	215.3	302.2	360.2	389.1	426.4	327.0	289.8	269.1	178.0	173.9
85°	136.6	124.2	211.1	240.1	215.3	190.4	182.1	153.2	140.8	86.9	95.2
87.5°	62.1	66.2	107.6	120.1	78.7	45.5	45.5	33.1	33.1	20.7	20.7
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)