

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: P479391

Luminaire Tested: **IFLD-L-SA7B-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

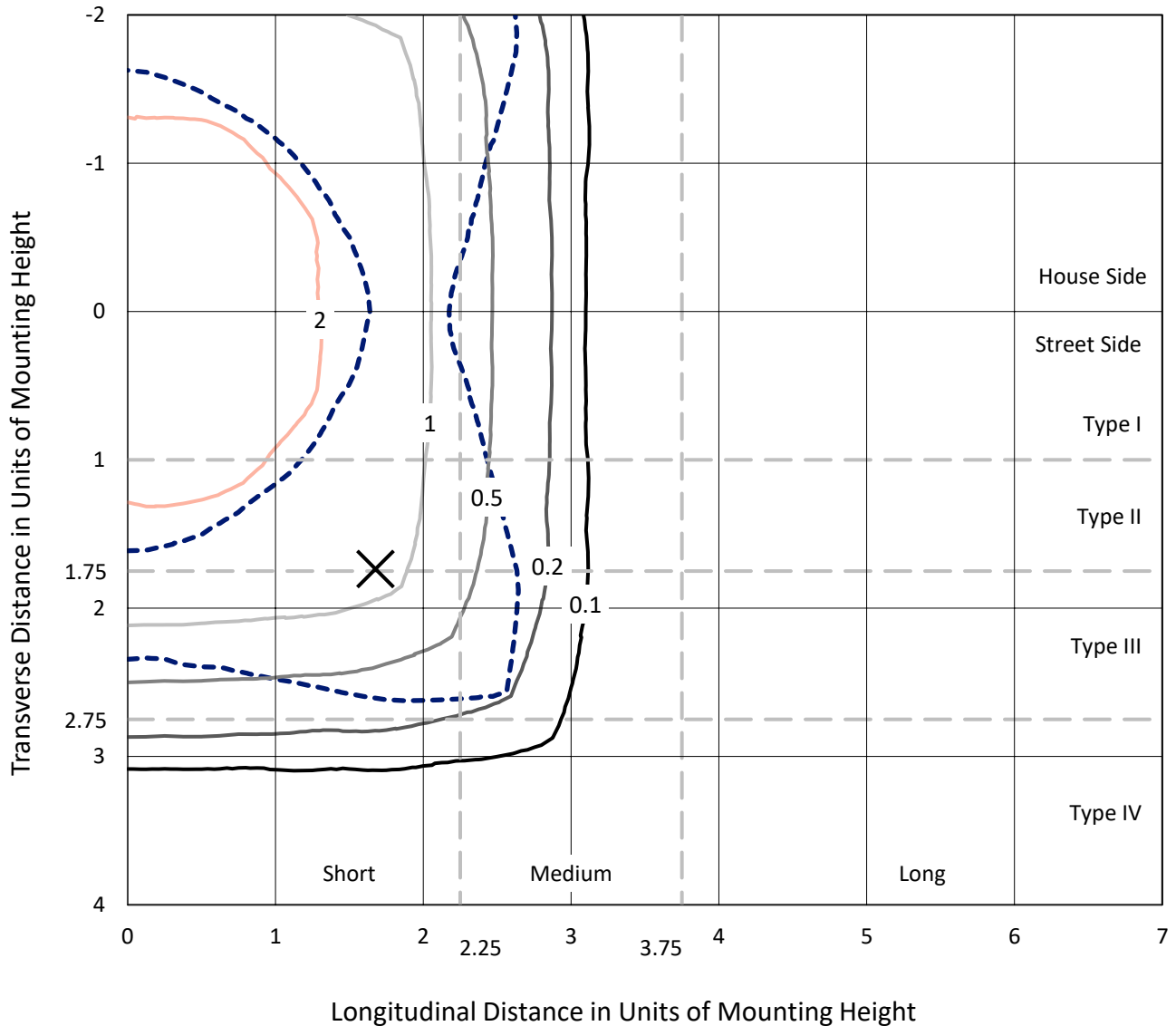
Lumens per Lamp: N/A
Luminaire Lumens: 36770.3 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 281
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

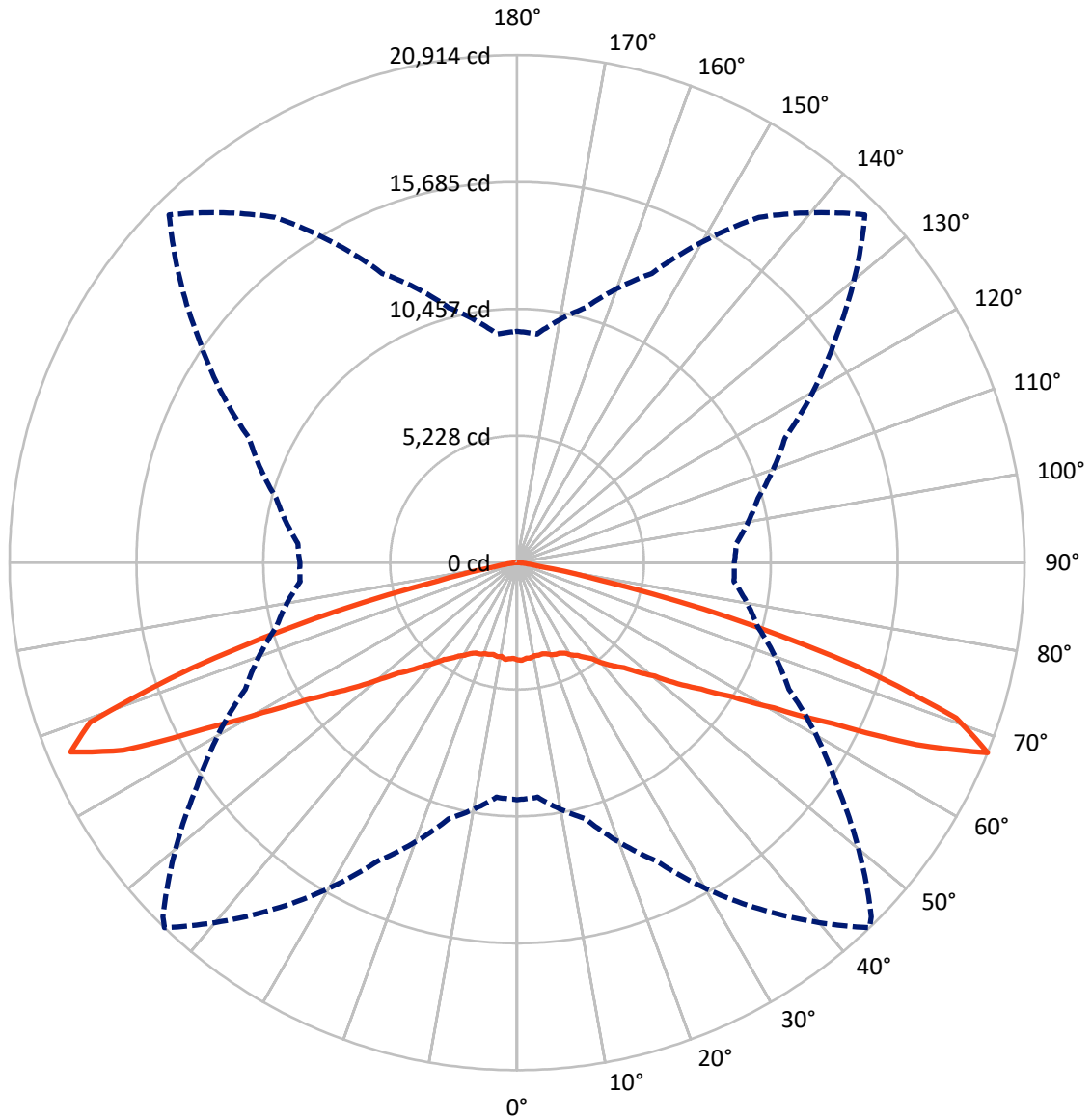
✕ Max cd
 - - - 1/2 Max cd



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	18338.1	0.0	18338.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18432.2	0.0	18432.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	36770.3	0.0	36770.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.0
10°-20°	1110.4	3.0
20°-30°	1888.3	5.1
30°-40°	2994.0	8.1
40°-50°	4881.9	13.3
50°-60°	8337.7	22.7
60°-70°	12681.5	34.5
70°-80°	4274.5	11.6
80°-90°	221.9	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°	36770.3	100.0
0°-180°	36770.3	100.0

Coefficient of Utilization



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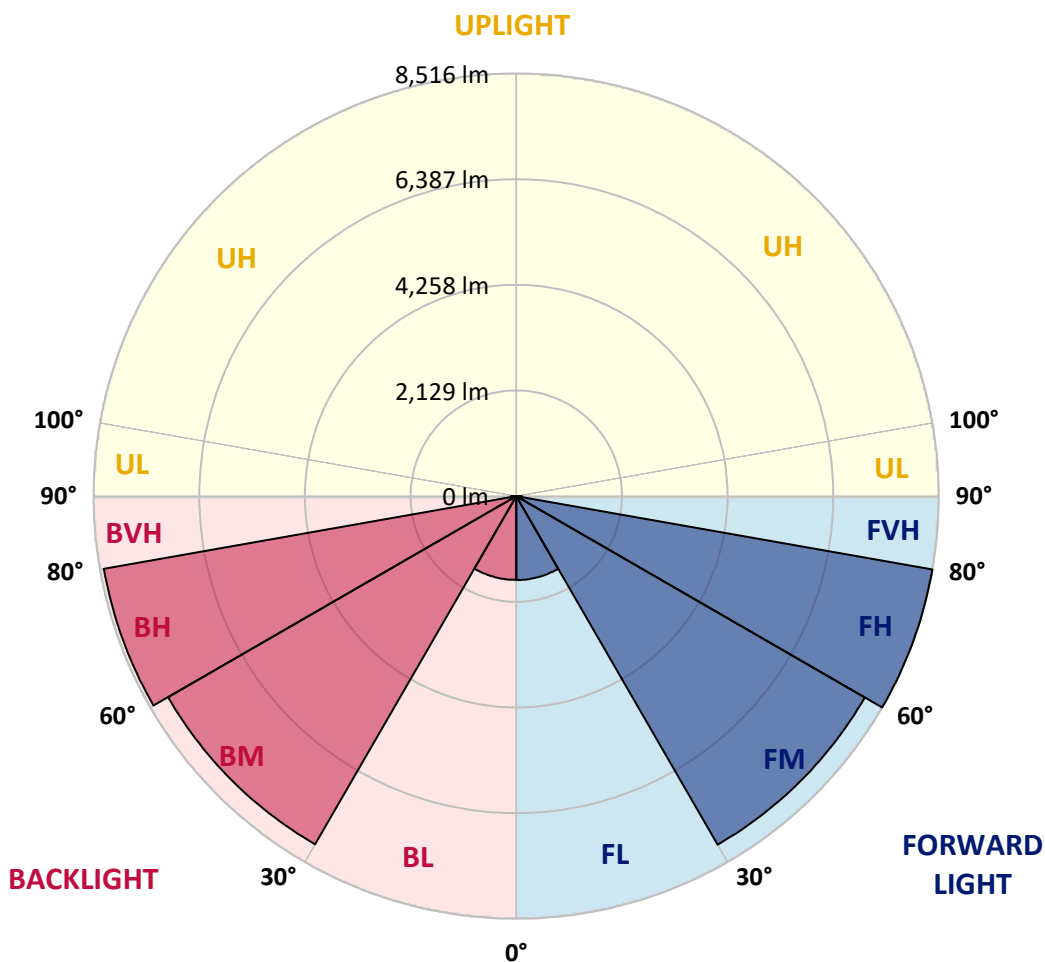
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1691.1	4.6			
FM (30°-60°)	8111.2	22.1			
FH (60°-80°)	8516.4	23.2			G4/12000
FVH (80°-90°)	113.5	0.3			G2/225
BL (0°-30°)	1687.7	4.6	B3/2500		
BM (30°-60°)	8102.4	22.0	B4/8500		
BH (60°-80°)	8439.6	23.0	B5		G4/12000
BVH (80°-90°)	108.4	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°	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5
2.5°	3924.2	3970.4	4003.9	3999.7	4012.3	4024.9	4008.1	4033.3	4016.5	4045.9	4062.7
5°	3999.7	3987.1	3991.3	3966.2	4024.9	3957.8	3957.8	3991.3	4033.3	3982.9	4012.3
7.5°	3953.6	3945.2	3924.2	3962.0	3974.6	3974.6	4008.1	3945.2	4016.5	4033.3	4037.5
10°	3903.2	3857.0	3920.0	3957.8	3966.2	3899.0	3928.4	3945.2	3924.2	3945.2	3957.8
12.5°	3861.2	3886.4	3886.4	3886.4	3873.8	3920.0	3949.4	3945.2	3903.2	3941.0	3873.8
15°	3857.0	3844.4	3882.2	3915.8	3894.8	3903.2	3915.8	3953.6	3873.8	3890.6	3890.6
17.5°	3852.8	3869.6	3882.2	3878.0	3949.4	3949.4	3936.8	3911.6	3974.6	3941.0	3894.8
20°	3869.6	3857.0	3890.6	3903.2	3953.6	4054.3	4016.5	3995.5	3962.0	3920.0	3920.0
22.5°	3890.6	3882.2	3928.4	3982.9	4079.5	4104.7	4100.5	4075.3	4016.5	3966.2	3957.8
25°	3966.2	3890.6	3941.0	4045.9	4079.5	4129.8	4163.4	4129.8	4050.1	4062.7	3987.1
27.5°	4079.5	4066.9	4134.0	4205.4	4176.0	4222.2	4192.8	4218.0	4222.2	4159.2	4083.7
30°	4213.8	4176.0	4218.0	4356.5	4369.1	4419.4	4369.1	4301.9	4322.9	4268.3	4230.6
32.5°	4406.8	4394.3	4474.0	4566.3	4583.1	4557.9	4532.8	4570.5	4482.4	4440.4	4373.3
35°	4532.8	4587.3	4683.8	4755.2	4809.8	4784.6	4797.2	4759.4	4780.4	4692.2	4662.9
37.5°	4906.3	4885.3	4906.3	5028.0	5040.6	5028.0	5040.6	5082.6	5053.2	4977.6	4902.1
40°	5258.8	5225.3	5275.6	5414.1	5405.7	5447.7	5363.8	5409.9	5409.9	5267.2	5237.9
42.5°	5523.2	5636.6	5695.3	5808.6	5850.6	5812.8	5796.1	5804.4	5896.8	5728.9	5665.9
45°	6068.9	6064.7	6240.9	6303.9	6186.4	6178.0	6144.4	6245.1	6308.1	6211.6	6186.4
47.5°	6660.6	6690.0	6790.7	6815.9	6887.3	6757.2	6757.2	6769.8	6992.2	6765.6	6648.0
50°	7193.7	7231.4	7432.9	7630.1	7495.8	7357.3	7411.9	7479.0	7600.8	7386.7	7286.0
52.5°	7840.0	8045.6	8179.9	8284.9	8381.4	8284.9	8159.0	8234.5	8473.7	8188.3	8062.4
55°	8771.7	8935.4	9061.3	9254.4	9334.1	9204.0	9191.4	9183.0	9317.3	9015.1	8843.1
57.5°	9812.6	9745.4	9946.9	10244.9	10534.5	10408.5	10370.8	10379.2	10412.7	9984.7	9854.5
60°	11105.3	11180.8	11420.0	11680.2	11986.6	12162.9	11915.3	11772.6	11802.0	11218.6	11017.1
62.5°	11843.9	12011.8	12553.2	13447.2	14064.1	14613.9	14651.7	13724.2	13103.0	11969.8	11113.6
65°	11487.2	11462.0	12481.9	14135.5	16473.2	18072.3	17833.0	15583.4	13413.6	11613.1	10463.1
67.5°	9770.6	9703.5	10937.4	13560.5	17421.7	20913.6	20640.8	16108.1	12364.3	10274.2	8973.2
70°	6295.5	6278.7	7617.5	10337.2	15554.1	19201.3	19302.0	14630.7	10064.4	7525.2	6236.7
72.5°	2287.4	2425.9	3202.3	5556.8	10563.8	14689.5	14752.4	10832.4	5787.7	3479.3	2564.4
75°	843.6	868.8	1011.5	1804.7	4814.0	9019.3	9254.4	5254.6	2056.5	1133.2	923.3
77.5°	486.9	491.0	541.4	671.5	1427.0	3521.3	3664.0	1594.9	797.4	604.4	558.2
80°	331.6	327.4	381.9	436.5	570.8	998.9	1061.8	667.3	503.6	419.7	352.5
82.5°	193.1	205.7	281.2	310.6	348.4	440.7	449.1	415.5	377.7	310.6	230.8
85°	117.5	96.5	155.3	172.1	201.5	197.3	197.3	226.6	243.4	218.2	130.1
87.5°	29.4	29.4	37.8	42.0	54.6	42.0	46.2	88.1	117.5	109.1	67.2
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°	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5	4016.5
2.5°	4024.9	4012.3	4020.7	4066.9	4037.5	3949.4	3970.4	4016.5	3978.8	3957.8	3953.6
5°	4008.1	4033.3	4003.9	4012.3	4041.7	3970.4	3982.9	4041.7	4016.5	4024.9	3978.8
7.5°	4012.3	4024.9	3999.7	3962.0	3962.0	4020.7	3987.1	3995.5	3957.8	4020.7	3936.8
10°	3987.1	3953.6	3924.2	3945.2	3936.8	3920.0	3907.4	3932.6	3894.8	3949.4	3890.6
12.5°	3911.6	3920.0	3911.6	3903.2	3920.0	3962.0	3894.8	3903.2	3844.4	3852.8	3882.2
15°	3882.2	3907.4	3899.0	3945.2	3966.2	3903.2	3953.6	3903.2	3857.0	3831.9	3878.0
17.5°	3894.8	3932.6	3920.0	3953.6	3915.8	3962.0	3970.4	3949.4	3894.8	3873.8	3894.8
20°	3907.4	3894.8	3911.6	3970.4	4024.9	3978.8	3978.8	3966.2	3915.8	3886.4	3886.4
22.5°	3936.8	3915.8	3941.0	3987.1	4003.9	4075.3	4012.3	3982.9	3899.0	3823.5	3894.8
25°	3995.5	4008.1	4024.9	4008.1	4100.5	4092.1	4083.7	4062.7	3932.6	3936.8	3924.2
27.5°	4108.9	4037.5	4058.5	4159.2	4171.8	4205.4	4163.4	4201.2	4062.7	4066.9	3982.9
30°	4247.4	4171.8	4239.0	4327.1	4322.9	4385.9	4364.9	4373.3	4276.7	4222.2	4108.9
32.5°	4398.5	4390.1	4432.0	4486.6	4507.6	4541.1	4537.0	4537.0	4478.2	4335.5	4356.5
35°	4566.3	4625.1	4675.5	4734.2	4742.6	4784.6	4725.8	4734.2	4675.5	4570.5	4604.1
37.5°	4897.9	4893.7	4948.3	5019.6	5028.0	4994.4	5040.6	5019.6	4939.9	4868.5	4814.0
40°	5284.0	5200.1	5250.4	5418.3	5430.9	5372.2	5368.0	5363.8	5305.0	5149.7	5116.1
42.5°	5619.8	5728.9	5720.5	5775.1	5737.3	5707.9	5812.8	5754.1	5707.9	5544.2	5514.9
45°	6052.1	6085.6	6194.8	6371.0	6190.6	6190.6	6261.9	6215.8	6190.6	6068.9	5955.5
47.5°	6589.3	6618.7	6836.9	6849.5	6732.0	6652.2	6874.7	6883.1	6778.1	6685.8	6547.3
50°	7218.8	7231.4	7428.7	7630.1	7500.0	7348.9	7575.6	7663.7	7428.7	7302.8	7130.7
52.5°	7911.3	7873.6	8037.2	8415.0	8289.1	8242.9	8486.3	8507.3	8188.3	7991.1	8037.2
55°	8708.8	8658.4	9103.3	9359.3	9279.6	9195.6	9304.7	9355.1	9099.1	8775.9	8889.2
57.5°	9741.2	9766.4	9988.8	10240.7	10370.8	10391.8	10442.1	10391.8	10131.5	9804.2	9699.3
60°	10773.7	10849.2	11281.5	11755.8	11797.8	12167.1	12099.9	11848.1	11478.8	11012.9	11033.9
62.5°	11155.6	11092.7	11789.4	12947.7	13934.0	14609.7	14311.8	13417.8	12561.6	11713.8	11776.8
65°	10387.6	10542.9	11491.4	13304.5	15444.9	18118.4	16532.0	14059.9	12330.8	11235.4	11113.6
67.5°	8952.2	9069.7	10274.2	12188.1	15986.4	20275.7	17371.4	13153.4	10874.4	9455.8	9531.4
70°	6236.7	6295.5	7474.8	9984.7	14496.4	19134.1	15671.6	10102.2	7508.4	5984.9	6068.9
72.5°	2509.8	2652.5	3428.9	6014.3	10702.3	14538.4	10551.2	5300.8	3114.2	2316.7	2102.7
75°	927.5	931.7	1095.4	2069.1	5082.6	9136.9	4759.4	1704.0	994.7	814.2	776.4
77.5°	537.2	533.0	570.8	747.1	1473.1	3567.4	1351.4	667.3	541.4	486.9	465.9
80°	335.8	331.6	390.3	495.2	646.3	977.9	570.8	415.5	365.1	314.8	314.8
82.5°	214.0	218.2	306.4	365.1	394.5	432.3	331.6	293.8	272.8	180.5	176.3
85°	138.5	125.9	214.0	243.4	218.2	193.1	184.7	155.3	142.7	88.1	96.5
87.5°	63.0	67.2	109.1	121.7	79.7	46.2	46.2	33.6	33.6	21.0	21.0
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)