

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: P481339

Luminaire Tested: **IFLD-M-SA4E-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

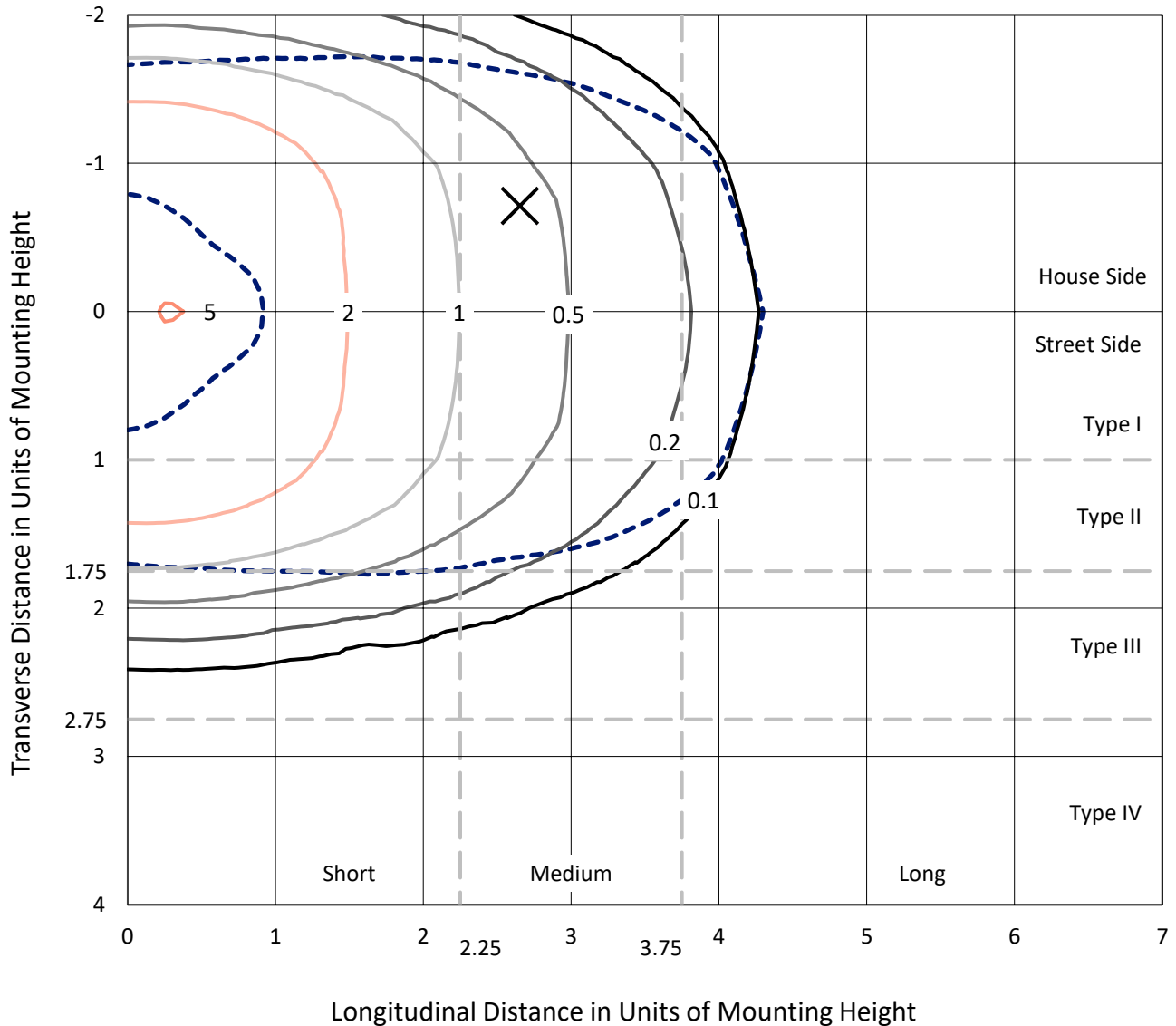
Lumens per Lamp: N/A
Luminaire Lumens: 38145.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

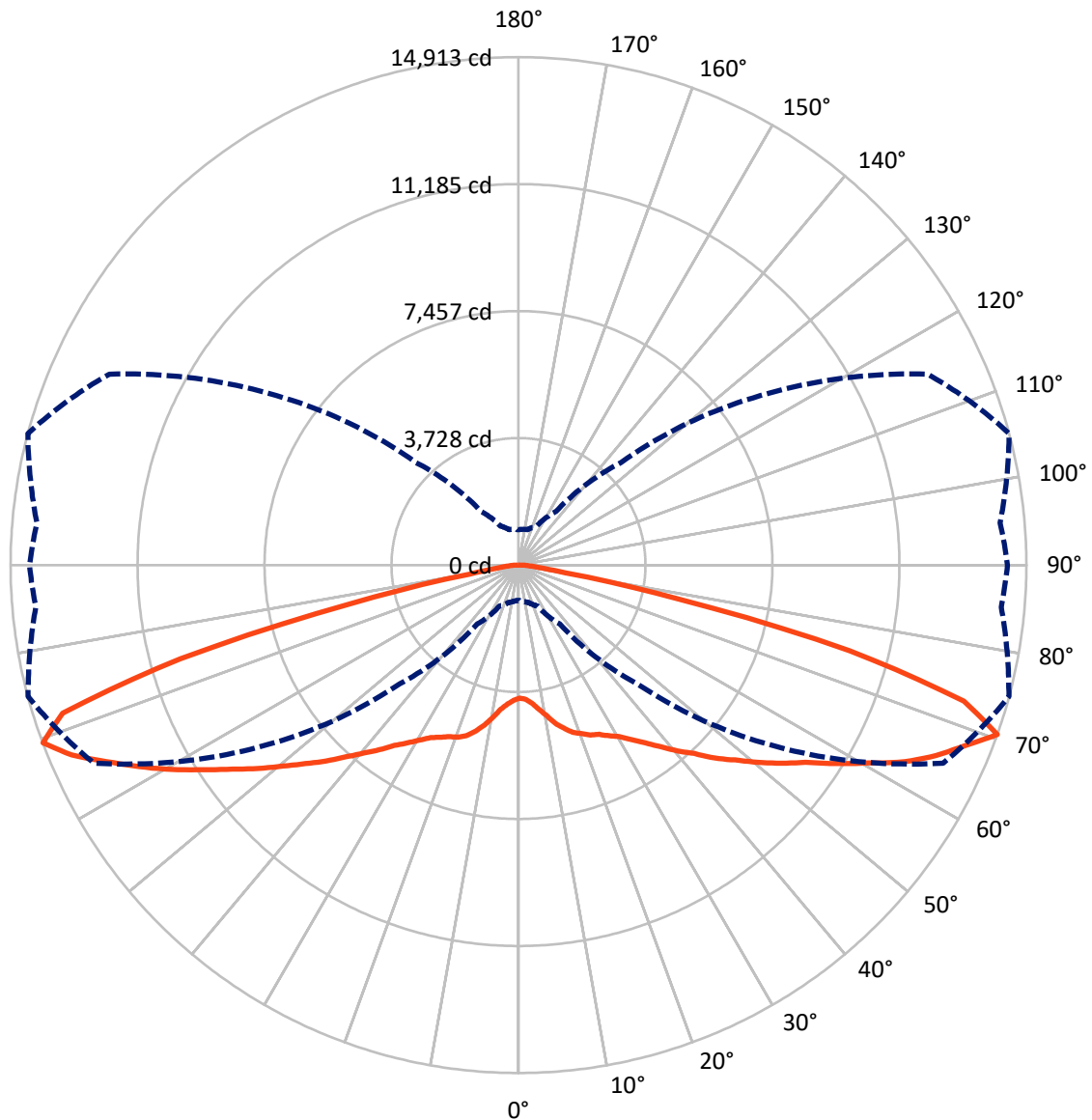
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18937.2	0.0	18937.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	19208.5	0.0	19208.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	38145.7	0.0	38145.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.8	1.0
10°-20°	1323.8	3.5
20°-30°	2563.3	6.7
30°-40°	4335.6	11.4
40°-50°	6916.6	18.1
50°-60°	9467.3	24.8
60°-70°	8923.5	23.4
70°-80°	3931.1	10.3
80°-90°	295.8	0.8
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°	38145.7	100.0
0°-180°	38145.7	100.0

Coefficient of Utilization



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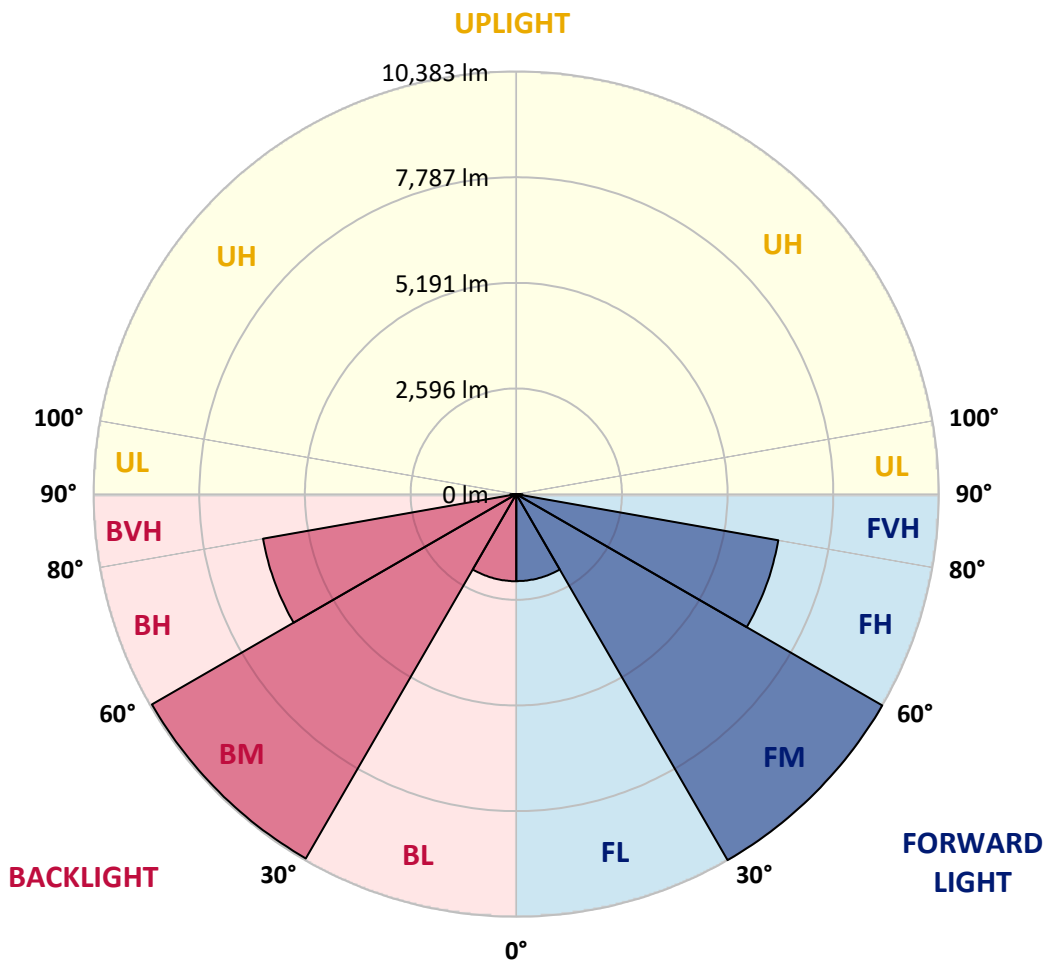
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.8	5.6			
FM (30°-60°)	10382.9	27.2			
FH (60°-80°)	6537.8	17.1			G3/7500
FVH (80°-90°)	151.1	0.4			G2/225
BL (0°-30°)	2139.1	5.6	B3/2500		
BM (30°-60°)	10336.5	27.1	B5		
BH (60°-80°)	6316.9	16.6	B5		G5
BVH (80°-90°)	144.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1
2.5°	3881.4	3881.4	3877.3	3897.9	3918.4	3926.6	3943.1	3947.2	3971.9	3951.3	3992.4
5°	3869.1	3865.0	3897.9	3947.2	3947.2	4000.7	4033.5	4078.8	4091.1	4115.8	4124.0
7.5°	3955.4	3947.2	3930.8	3984.2	4029.4	4111.7	4156.9	4235.0	4263.8	4296.7	4333.7
10°	4008.9	4008.9	3992.4	4087.0	4128.1	4239.1	4337.8	4415.9	4526.9	4563.9	4568.1
12.5°	4017.1	4029.4	4078.8	4202.1	4317.2	4461.2	4535.2	4683.2	4794.2	4864.1	4888.8
15°	4140.4	4115.8	4169.2	4337.8	4506.4	4633.8	4765.4	4872.3	5032.7	5123.1	5180.7
17.5°	4251.5	4226.8	4325.5	4526.9	4699.6	4897.0	5012.1	5127.2	5242.4	5324.6	5328.7
20°	4428.3	4448.8	4535.2	4753.1	4979.2	5151.9	5283.5	5304.0	5361.6	5480.8	5460.3
22.5°	4646.2	4629.7	4810.6	5049.1	5295.8	5439.7	5513.7	5460.3	5431.5	5559.0	5587.8
25°	4864.1	4913.4	5077.9	5299.9	5596.0	5789.2	5809.8	5661.8	5554.9	5600.1	5587.8
27.5°	5197.1	5205.4	5378.1	5641.2	5941.4	6109.9	6097.6	5887.9	5682.3	5686.4	5694.7
30°	5624.8	5583.6	5772.8	6011.3	6307.3	6459.4	6480.0	6179.8	5904.4	5822.1	5842.7
32.5°	6035.9	6085.3	6249.7	6521.1	6739.0	6825.4	6780.1	6512.9	6155.2	6044.1	6056.5
35°	6562.2	6554.0	6780.1	7010.4	7174.9	7191.3	7154.3	6763.7	6426.5	6282.6	6225.1
37.5°	7125.5	7199.5	7347.5	7536.7	7709.4	7717.6	7516.1	7203.6	6788.4	6549.9	6619.8
40°	7754.6	7836.8	7943.7	8219.2	8346.7	8215.1	8009.5	7586.0	7154.3	6944.6	6977.5
42.5°	8309.7	8346.7	8564.6	8889.4	8951.1	8893.5	8589.3	8075.3	7573.7	7343.4	7359.9
45°	8819.5	8868.9	9152.6	9444.5	9588.4	9489.7	9136.1	8646.8	8063.0	7865.6	7787.5
47.5°	9288.3	9386.9	9662.4	9962.6	10184.6	10192.8	9757.0	9164.9	8548.2	8289.1	8285.0
50°	9604.8	9748.8	10020.1	10361.4	10686.2	10813.7	10377.8	9740.5	9078.6	8803.1	8774.3
52.5°	9777.5	9925.6	10196.9	10727.3	11089.2	11286.5	11080.9	10279.2	9699.4	9411.6	9366.4
55°	9567.8	9666.5	10110.6	10854.8	11414.0	11738.8	11603.1	11023.4	10316.2	10081.8	10122.9
57.5°	8675.6	8881.2	9428.0	10357.3	11405.8	12203.4	12191.1	11726.5	11027.5	10805.5	10813.7
60°	7142.0	7314.7	7989.0	9288.3	10945.3	12392.6	12828.4	12409.0	11825.1	11566.1	11557.9
62.5°	5040.9	5258.8	6040.0	7458.6	9588.4	12129.4	13560.3	13268.3	12606.4	12417.2	12487.1
65°	2820.6	2952.2	3675.8	4958.7	7306.4	10682.1	13691.8	14160.6	13399.9	13112.1	13124.4
67.5°	1509.0	1558.3	1895.5	2602.7	4469.4	8235.7	12363.8	14674.5	14259.3	13761.7	13683.6
70°	1036.1	1052.6	1138.9	1332.2	2113.4	4925.8	9325.3	13757.6	14904.8	14226.4	14357.9
72.5°	875.8	867.6	888.1	908.7	1106.0	2203.9	5472.6	10587.5	14070.1	13815.2	13765.9
75°	760.7	756.5	764.8	744.2	768.9	970.4	2421.8	6599.2	10299.7	11496.2	11681.2
77.5°	629.1	633.2	637.3	616.7	608.5	641.4	974.5	2898.7	5069.7	5596.0	6035.9
80°	477.0	485.2	518.1	497.5	464.6	468.7	575.6	970.4	1455.5	1319.8	1361.0
82.5°	324.8	328.9	398.8	374.2	349.5	316.6	370.0	501.6	567.4	431.7	378.3
85°	230.3	226.1	259.0	238.5	222.0	160.4	222.0	283.7	341.3	213.8	193.2
87.5°	53.5	53.5	106.9	86.3	82.2	65.8	86.3	111.0	148.0	94.6	86.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1	3906.1
2.5°	3980.1	3943.1	3943.1	3934.9	3902.0	3893.7	3865.0	3873.2	3852.6	3832.1
5°	4119.9	4070.5	4070.5	4000.7	3934.9	3926.6	3893.7	3893.7	3860.9	3869.1
7.5°	4313.1	4267.9	4193.9	4132.2	4041.8	4004.8	3943.1	3934.9	3926.6	3910.2
10°	4543.4	4485.8	4411.8	4284.4	4210.3	4140.4	4078.8	3992.4	3971.9	3976.0
12.5°	4855.9	4765.4	4605.1	4494.0	4399.5	4309.0	4218.6	4091.1	4062.3	4074.7
15°	5077.9	4962.8	4802.4	4761.3	4633.8	4522.8	4374.8	4230.9	4181.6	4169.2
17.5°	5258.8	5164.3	5069.7	5008.0	4905.2	4769.5	4563.9	4399.5	4288.5	4276.1
20°	5406.8	5283.5	5262.9	5299.9	5172.5	5082.0	4831.2	4629.7	4481.7	4420.0
22.5°	5497.3	5419.2	5476.7	5509.6	5501.4	5349.3	5090.2	4855.9	4670.9	4613.3
25°	5596.0	5505.5	5711.1	5822.1	5850.9	5600.1	5398.6	5090.2	4909.3	4872.3
27.5°	5645.3	5678.2	5916.7	6151.1	6130.5	5937.2	5665.9	5390.4	5246.5	5180.7
30°	5789.2	5842.7	6204.5	6467.6	6471.8	6282.6	6077.0	5764.6	5604.2	5575.4
32.5°	6048.3	6114.0	6500.5	6780.1	6829.5	6685.6	6480.0	6286.7	6122.3	6056.5
35°	6245.6	6414.2	6850.0	7105.0	7236.5	7150.2	7035.1	6833.6	6660.9	6603.3
37.5°	6529.3	6763.7	7183.1	7528.5	7676.5	7668.3	7581.9	7364.0	7220.1	7170.7
40°	6936.4	7170.7	7553.1	8009.5	8285.0	8272.7	8223.3	8054.8	7840.9	7816.3
42.5°	7368.1	7561.4	8058.9	8581.0	8975.8	8934.6	8803.1	8605.7	8457.7	8424.8
45°	7787.5	8087.6	8548.2	9218.4	9514.4	9617.2	9460.9	9123.8	8955.2	8934.6
47.5°	8313.8	8552.3	9127.9	9728.2	10168.1	10184.6	9917.3	9604.8	9296.5	9362.3
50°	8782.5	9099.1	9683.0	10340.8	10867.1	10678.0	10336.7	9946.1	9724.1	9637.7
52.5°	9284.1	9670.6	10349.1	11019.3	11311.2	11122.1	10567.0	10131.1	9794.0	9757.0
55°	10016.0	10217.5	11105.6	11619.6	11714.1	11315.3	10497.1	9880.3	9444.5	9337.6
57.5°	10760.2	10994.6	11771.7	12215.8	12117.1	11208.4	10044.8	9090.9	8519.4	8367.2
60°	11512.7	11800.5	12454.2	12861.3	12351.4	10472.4	8766.1	7536.7	6870.6	6734.9
62.5°	12351.4	12725.6	13309.5	13453.4	11656.6	9016.9	6956.9	5439.7	4765.4	4539.3
65°	13095.7	13478.0	14197.6	13330.0	10180.5	6726.7	4498.2	3108.4	2610.9	2430.0
67.5°	13708.3	14140.0	14493.6	11796.4	7454.4	3939.0	2343.6	1636.4	1451.4	1385.6
70°	14193.5	14913.0	13260.1	8671.5	4259.7	1920.1	1266.4	1077.3	1052.6	1036.1
72.5°	13770.0	13675.4	9900.9	5003.9	1866.7	1056.7	916.9	888.1	884.0	888.1
75°	11261.9	10044.8	5920.8	2175.1	937.5	764.8	760.7	748.3	768.9	768.9
77.5°	5464.4	4777.8	2475.2	933.3	616.7	600.3	620.9	620.9	620.9	620.9
80°	1266.4	1402.1	884.0	567.4	448.2	448.2	493.4	497.5	477.0	468.7
82.5°	431.7	575.6	485.2	357.7	296.0	333.0	374.2	382.4	316.6	320.7
85°	213.8	337.2	263.1	205.6	152.1	205.6	242.6	254.9	217.9	209.7
87.5°	98.7	148.0	98.7	69.9	53.5	74.0	69.9	57.6	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)