

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: P478998

Luminaire Tested: **IFLD-M-SA4D-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478998
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

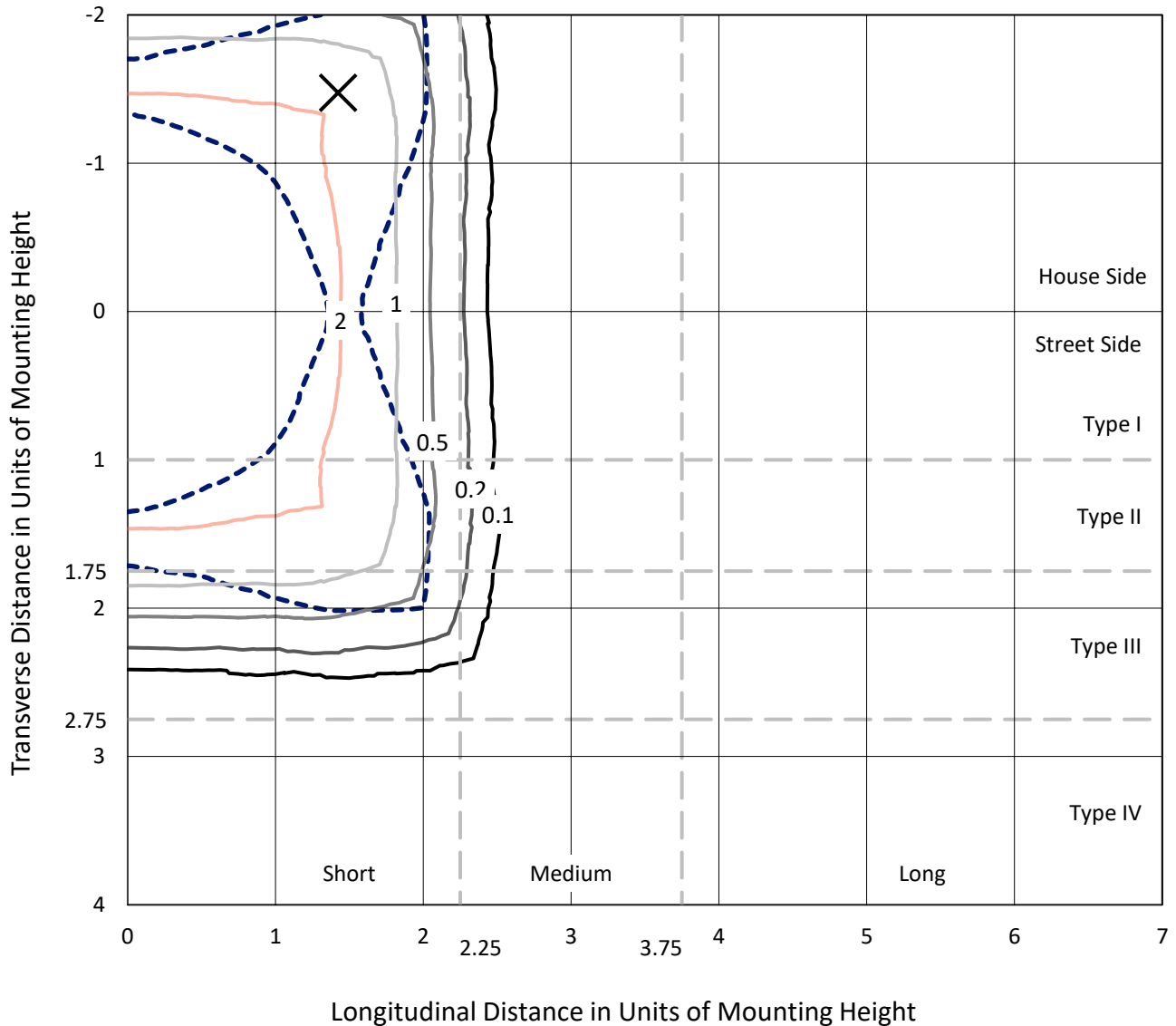
Lumens per Lamp: N/A
Luminaire Lumens: 31916.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 249.7
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

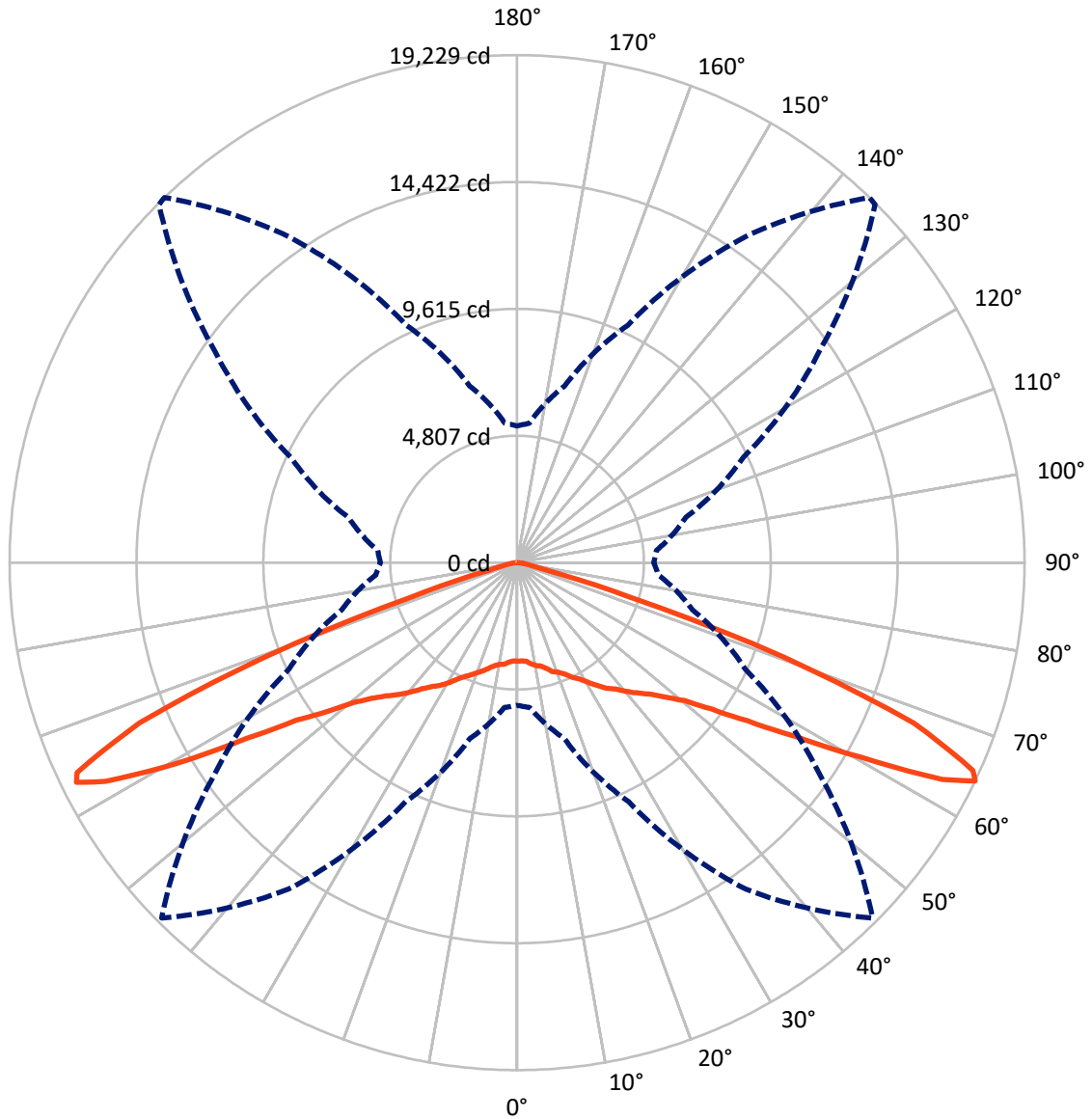
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15973.3	0.0	15973.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15942.9	0.0	15942.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	31916.3	0.0	31916.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.2
10°-20°	1183.4	3.7
20°-30°	2224.0	7.0
30°-40°	3667.8	11.5
40°-50°	5736.2	18.0
50°-60°	9268.3	29.0
60°-70°	8345.5	26.1
70°-80°	988.6	3.1
80°-90°	135.3	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°	31916.3	100.0
0°-180°	31916.3	100.0

Coefficient of Utilization



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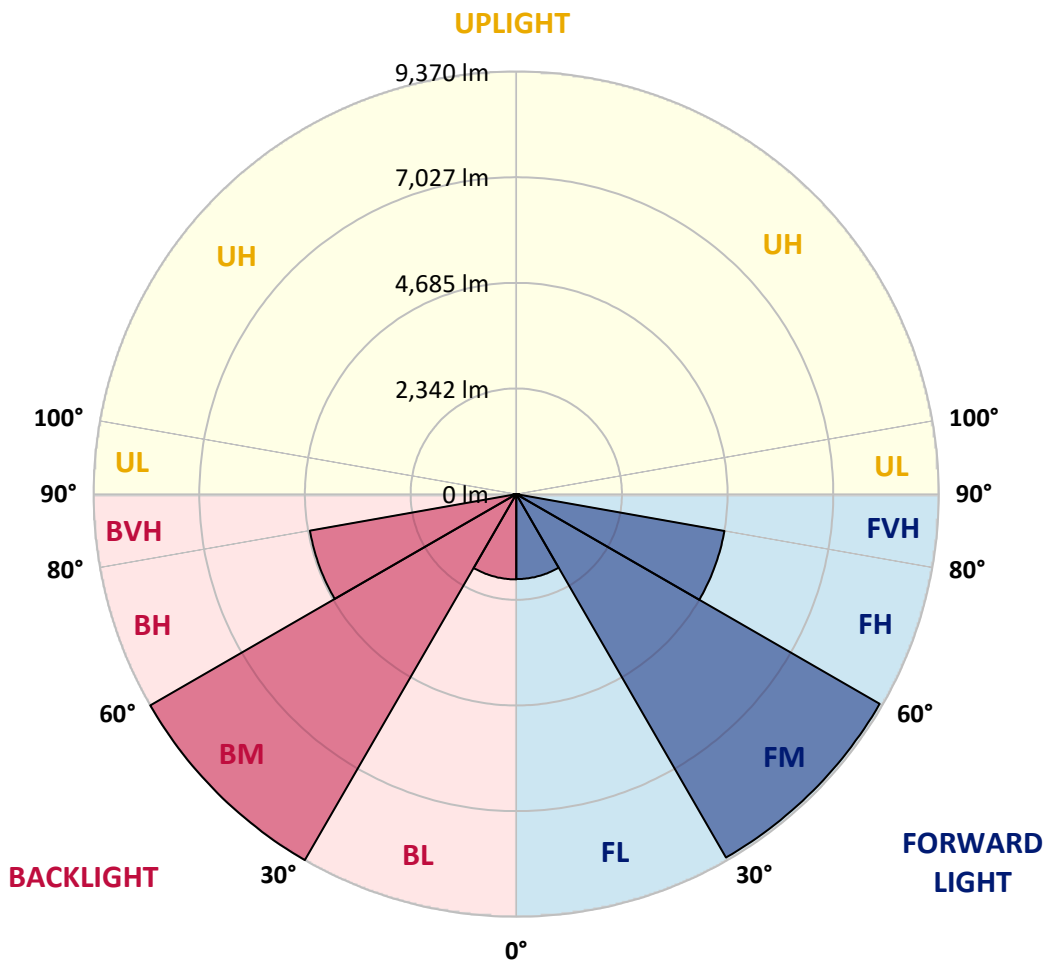
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.6	5.9			
FM (30°-60°)	9302.6	29.1			
FH (60°-80°)	4687.3	14.7			G2/5000
FVH (80°-90°)	69.4	0.2			G1/100
BL (0°-30°)	1890.9	5.9	B3/2500		
BM (30°-60°)	9369.7	29.4	B5		
BH (60°-80°)	4646.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	65.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7
2.5°	3692.8	3700.1	3766.0	3740.4	3762.4	3722.1	3751.4	3813.6	3740.4	3795.3	3813.6
5°	3733.1	3744.1	3744.1	3769.7	3784.3	3777.0	3795.3	3769.7	3839.2	3809.9	3853.9
7.5°	3879.5	3861.2	3831.9	3853.9	3857.5	3875.8	3894.1	3927.1	3916.1	3890.5	3934.4
10°	3905.1	3890.5	3934.4	3938.0	3919.7	3905.1	3923.4	3923.4	3956.3	3963.7	3963.7
12.5°	3949.0	3963.7	3960.0	3989.3	3992.9	3982.0	4011.2	4066.1	4051.5	4062.5	4036.9
15°	4117.4	4099.1	4095.4	4124.7	4172.3	4102.7	4154.0	4150.3	4135.7	4157.6	4099.1
17.5°	4263.8	4205.2	4230.8	4278.4	4260.1	4274.7	4340.6	4282.1	4296.7	4271.1	4252.8
20°	4391.9	4344.3	4347.9	4366.2	4366.2	4410.2	4435.8	4413.8	4399.2	4395.5	4402.8
22.5°	4534.6	4479.7	4483.4	4560.2	4585.8	4571.2	4552.9	4589.5	4596.8	4567.5	4600.5
25°	4640.7	4699.3	4717.6	4754.2	4699.3	4739.5	4724.9	4794.4	4838.4	4779.8	4820.1
27.5°	4918.9	4893.3	4940.8	4937.2	4981.1	4940.8	4966.5	4988.4	5006.7	5010.4	4992.1
30°	5167.8	5178.7	5131.2	5259.3	5156.8	5222.7	5266.6	5277.6	5299.5	5299.5	5244.6
32.5°	5431.3	5409.3	5486.2	5456.9	5438.6	5489.8	5442.2	5592.3	5504.5	5555.7	5493.5
35°	5727.7	5727.7	5757.0	5837.5	5727.7	5694.8	5782.6	5844.8	5844.8	5753.3	5775.3
37.5°	6060.8	6031.5	6068.1	6170.6	6086.4	5976.6	6137.6	6163.2	6144.9	6119.3	6075.4
40°	6295.0	6287.7	6360.9	6496.3	6375.5	6353.6	6382.8	6452.4	6474.3	6500.0	6441.4
42.5°	6690.3	6723.2	6935.5	6902.5	6803.7	6726.9	6719.5	6979.4	6917.2	6851.3	6818.4
45°	7275.8	7246.6	7356.4	7360.0	7231.9	7063.6	7100.2	7338.1	7444.2	7297.8	7352.7
47.5°	7740.7	7755.3	7832.1	7989.5	7693.1	7517.4	7652.8	8037.1	8004.2	7949.3	8000.5
50°	8362.8	8428.7	8670.3	8615.4	8351.9	8135.9	8432.4	8794.7	8835.0	8633.7	8597.1
52.5°	9222.9	9325.4	9457.1	9501.1	9248.5	9171.7	9190.0	9640.1	9541.3	9347.3	9222.9
55°	9976.8	10024.4	10266.0	10628.3	10610.0	10240.4	10452.6	10621.0	10218.4	9819.5	9852.4
57.5°	10298.9	10320.9	10994.3	11718.9	12150.8	12235.0	11993.4	11426.2	10467.3	9698.7	9651.1
60°	9497.4	9706.0	10518.5	12154.5	14127.1	15100.7	13494.0	11517.6	9885.3	8952.1	8882.5
62.5°	7590.6	7601.6	8809.3	11290.7	15356.9	17907.8	14068.6	10657.6	8333.6	7275.8	6997.7
64°	5405.6	5508.1	6895.2	9995.1	15100.7	19049.7	13999.1	9534.0	6869.6	5369.0	5175.1
65°	3879.5	4022.2	5361.7	8677.6	14500.5	18914.3	13790.4	8567.8	5555.7	4099.1	3901.4
67.5°	1427.4	1485.9	2104.4	4340.6	10412.4	16118.1	10928.4	4710.3	2441.1	1738.4	1562.8
70°	662.4	666.1	779.6	1434.7	4552.9	10778.4	5215.3	1767.7	918.6	728.3	677.1
72.5°	486.8	497.7	545.3	662.4	1339.5	4563.9	1712.8	724.7	538.0	475.8	464.8
75°	395.3	402.6	417.2	479.4	618.5	1222.4	695.4	501.4	428.2	384.3	369.6
77.5°	303.8	303.8	336.7	366.0	409.9	570.9	461.1	398.9	347.7	303.8	292.8
80°	219.6	223.3	263.5	285.5	278.2	377.0	333.0	329.4	285.5	237.9	219.6
82.5°	128.1	139.1	190.3	205.0	197.6	223.3	241.6	256.2	223.3	164.7	150.1
85°	73.2	76.9	109.8	113.5	113.5	106.1	139.1	153.7	150.1	102.5	91.5
87.5°	22.0	22.0	29.3	29.3	32.9	36.6	54.9	65.9	73.2	51.2	47.6
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°	136°	145°	155°	165°	175°	180°
0°	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7
2.5°	3795.3	3740.4	3744.1	3758.7	3711.1	3729.4	3784.3	3744.1	3733.1	3711.1	3700.1
5°	3777.0	3835.6	3813.6	3820.9	3809.9	3758.7	3751.4	3784.3	3802.6	3769.7	3835.6
7.5°	3905.1	3879.5	3850.2	3861.2	3835.6	3879.5	3908.8	3842.9	3875.8	3857.5	3820.9
10°	3978.3	3930.7	3952.7	3945.4	3927.1	3971.0	3941.7	3934.4	3905.1	3864.8	3923.4
12.5°	4003.9	4058.8	4095.4	4033.2	4044.2	4022.2	4003.9	4003.9	3971.0	3960.0	3971.0
15°	4117.4	4164.9	4150.3	4197.9	4135.7	4157.6	4179.6	4124.7	4154.0	4073.4	4135.7
17.5°	4326.0	4285.7	4337.0	4274.7	4296.7	4340.6	4271.1	4271.1	4293.0	4249.1	4194.2
20°	4457.7	4439.4	4421.1	4424.8	4388.2	4428.5	4406.5	4395.5	4362.6	4377.2	4406.5
22.5°	4582.2	4556.6	4563.9	4574.9	4600.5	4582.2	4571.2	4582.2	4501.7	4574.9	4472.4
25°	4735.9	4805.4	4783.5	4831.0	4757.8	4805.4	4801.8	4732.2	4776.1	4746.9	4724.9
27.5°	4992.1	4955.5	4988.4	4929.9	4981.1	4984.8	4940.8	5058.0	5006.7	4999.4	4984.8
30°	5321.5	5295.8	5273.9	5241.0	5281.2	5248.3	5284.9	5295.8	5248.3	5211.7	5142.1
32.5°	5508.1	5577.7	5603.3	5522.8	5526.4	5544.7	5511.8	5478.8	5508.1	5519.1	5508.1
35°	5771.6	5837.5	5852.2	5789.9	5757.0	5848.5	5782.6	5892.4	5797.3	5800.9	5702.1
37.5°	6079.1	6097.4	6221.8	6152.3	6123.0	6079.1	6199.8	6185.2	6207.2	6031.5	6119.3
40°	6426.8	6492.6	6562.2	6386.5	6382.8	6423.1	6415.8	6500.0	6459.7	6434.1	6371.9
42.5°	6807.4	6946.5	6957.4	6840.3	6767.1	6759.8	6796.4	6983.1	6986.7	6818.4	6745.2
45°	7312.4	7466.2	7425.9	7199.0	7118.5	7107.5	7286.8	7367.3	7436.9	7371.0	7308.8
47.5°	7941.9	8044.4	8015.1	7806.5	7546.7	7619.9	7795.5	8048.1	7974.9	7887.0	7813.8
50°	8615.4	8736.1	8673.9	8465.3	8216.4	8216.4	8432.4	8754.4	8732.5	8560.5	8494.6
52.5°	9362.0	9537.7	9680.4	9383.9	9175.3	9208.3	9548.6	9665.7	9610.9	9490.1	9435.2
55°	9918.3	10255.0	10547.8	10562.4	10573.4	10569.7	10657.6	10774.7	10383.1	10189.1	9991.5
57.5°	9782.9	10419.7	11422.5	12103.2	12304.5	12410.7	12381.4	11839.7	10913.8	10276.9	10342.8
60°	8816.7	9856.1	11473.7	13658.7	15122.6	14976.2	14441.9	12300.9	10621.0	9545.0	9409.6
62.5°	7034.3	8286.0	10613.7	14097.9	18131.1	18087.1	15291.0	11235.8	8849.6	7488.1	7403.9
64°	5299.5	6617.1	9468.1	13984.4	19185.1	19229.0	15075.1	9925.6	6924.5	5299.5	5171.4
65°	4055.1	5277.6	8344.5	13750.2	18958.2	18983.8	14474.8	8571.4	5262.9	3762.4	3623.3
67.5°	1614.0	2247.2	4527.3	10427.0	16279.2	16209.6	10328.2	4146.6	2012.9	1310.2	1284.6
70°	688.1	856.4	1588.4	4940.8	10899.1	10697.8	4446.8	1346.8	746.6	625.8	622.2
72.5°	472.1	523.4	680.7	1526.2	4530.9	4424.8	1266.3	625.8	508.7	468.5	468.5
75°	380.6	417.2	494.1	640.5	1200.4	1156.5	596.6	461.1	406.2	377.0	373.3
77.5°	296.5	333.0	387.9	442.8	549.0	545.3	398.9	347.7	314.7	292.8	285.5
80°	234.2	270.8	307.4	314.7	358.7	351.3	270.8	274.5	256.2	212.3	208.6
82.5°	161.0	219.6	245.2	223.3	212.3	212.3	194.0	194.0	179.3	131.8	120.8
85°	98.8	146.4	153.7	131.8	98.8	98.8	106.1	102.5	95.2	69.5	65.9
87.5°	51.2	69.5	62.2	51.2	32.9	32.9	29.3	22.0	22.0	18.3	18.3
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)