

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: P479462

Luminaire Tested: **IFLD-S-SA6E-827-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

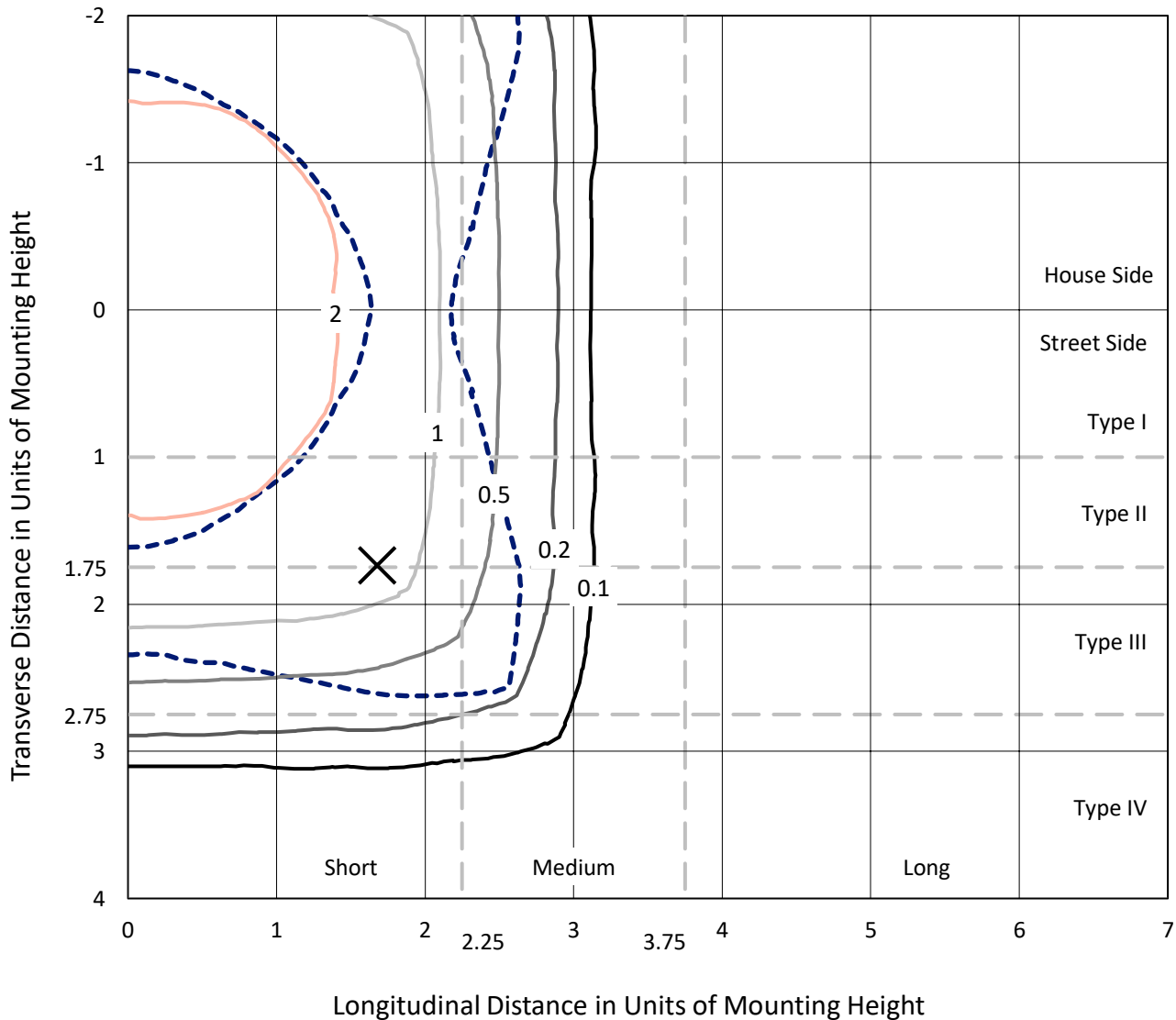
Lumens per Lamp: N/A
Luminaire Lumens: 39262.3 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (A_{in}): 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

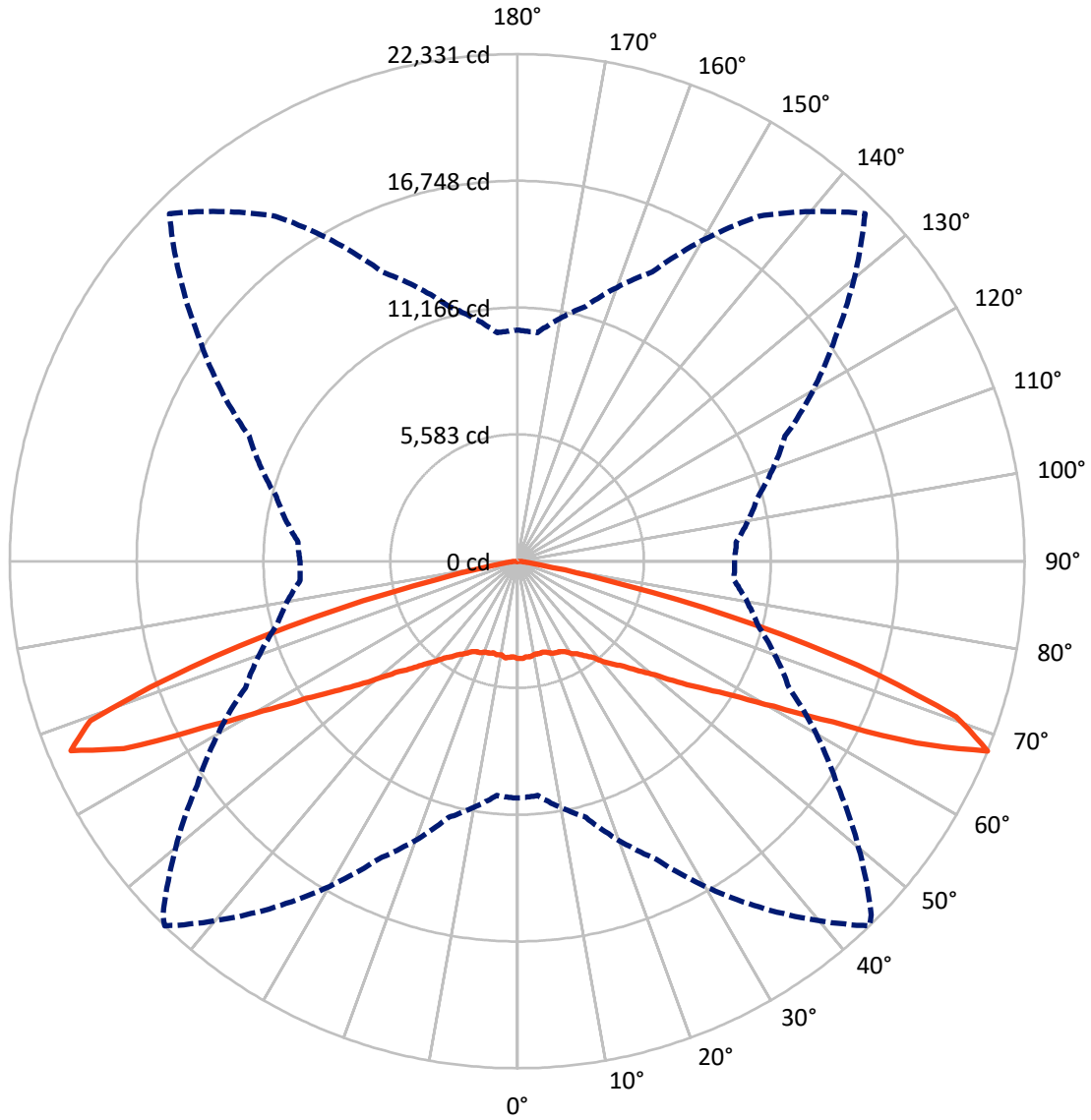
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	19580.9	0.0	19580.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	19681.4	0.0	19681.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	39262.3	0.0	39262.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	1.0
10°-20°	1185.7	3.0
20°-30°	2016.3	5.1
30°-40°	3196.9	8.1
40°-50°	5212.8	13.3
50°-60°	8902.8	22.7
60°-70°	13541.0	34.5
70°-80°	4564.1	11.6
80°-90°	237.0	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°	39262.3	100.0
0°-180°	39262.3	100.0

Coefficient of Utilization



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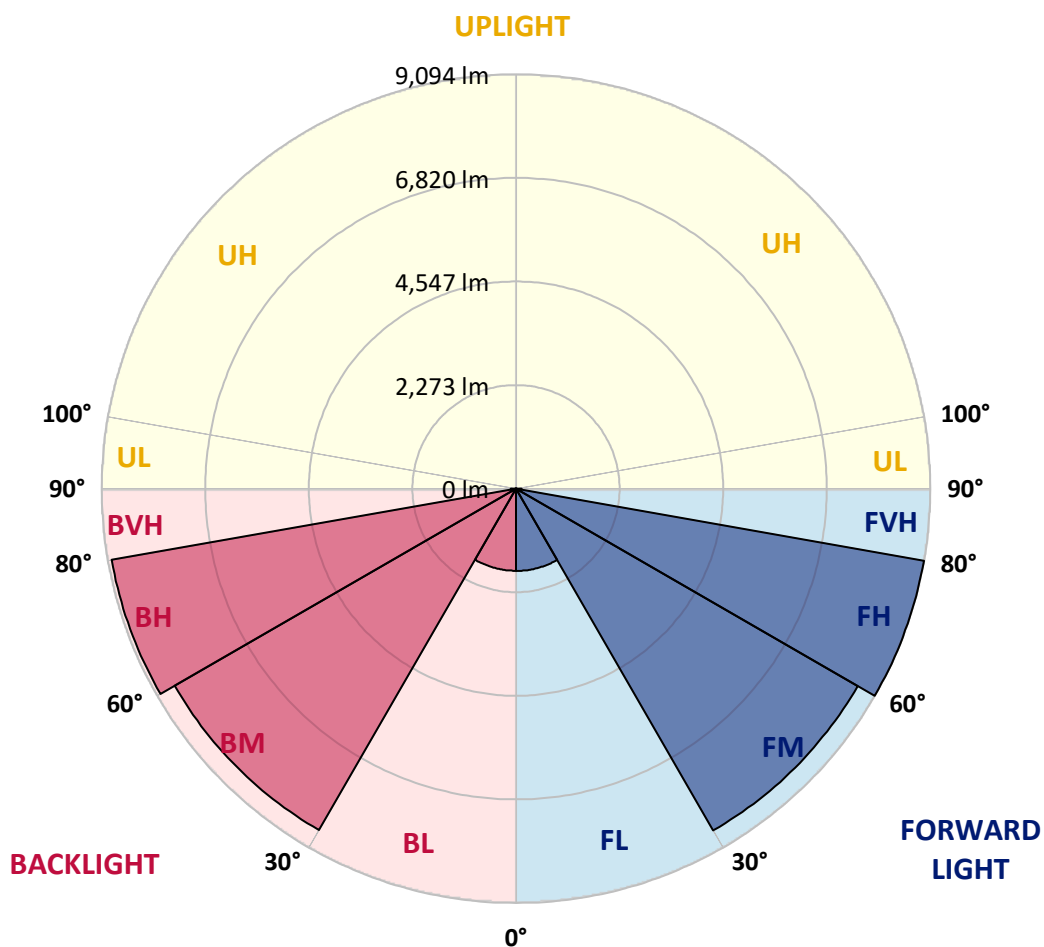
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.7	4.6			
FM (30°-60°)	8660.9	22.1			
FH (60°-80°)	9093.6	23.2			G4/12000
FVH (80°-90°)	121.2	0.3			G2/225
BL (0°-30°)	1802.0	4.6	B3/2500		
BM (30°-60°)	8651.5	22.0	B5		
BH (60°-80°)	9011.6	23.0	B5		G4/12000
BVH (80°-90°)	115.7	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°	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7
2.5°	4190.1	4239.4	4275.3	4270.8	4284.2	4297.7	4279.8	4306.7	4288.7	4320.1	4338.0
5°	4270.8	4257.4	4261.8	4235.0	4297.7	4226.0	4226.0	4261.8	4306.7	4252.9	4284.2
7.5°	4221.5	4212.5	4190.1	4230.5	4243.9	4243.9	4279.8	4212.5	4288.7	4306.7	4311.1
10°	4167.7	4118.4	4185.7	4226.0	4235.0	4163.2	4194.6	4212.5	4190.1	4212.5	4226.0
12.5°	4122.9	4149.8	4149.8	4149.8	4136.4	4185.7	4217.0	4212.5	4167.7	4208.1	4136.4
15°	4118.4	4105.0	4145.3	4181.2	4158.8	4167.7	4181.2	4221.5	4136.4	4154.3	4154.3
17.5°	4114.0	4131.9	4145.3	4140.8	4217.0	4217.0	4203.6	4176.7	4243.9	4208.1	4158.8
20°	4131.9	4118.4	4154.3	4167.7	4221.5	4329.1	4288.7	4266.3	4230.5	4185.7	4185.7
22.5°	4154.3	4145.3	4194.6	4252.9	4355.9	4382.8	4378.4	4351.5	4288.7	4235.0	4226.0
25°	4235.0	4154.3	4208.1	4320.1	4355.9	4409.7	4445.6	4409.7	4324.6	4338.0	4257.4
27.5°	4355.9	4342.5	4414.2	4490.4	4459.0	4508.3	4476.9	4503.8	4508.3	4441.1	4360.4
30°	4499.4	4459.0	4503.8	4651.7	4665.2	4718.9	4665.2	4593.5	4615.9	4557.6	4517.3
32.5°	4705.5	4692.1	4777.2	4875.8	4893.7	4866.8	4839.9	4880.3	4786.2	4741.4	4669.6
35°	4839.9	4898.2	5001.3	5077.5	5135.7	5108.8	5122.3	5081.9	5104.3	5010.2	4978.9
37.5°	5238.8	5216.4	5238.8	5368.8	5382.2	5368.8	5382.2	5427.0	5395.6	5315.0	5234.3
40°	5615.2	5579.4	5633.2	5781.0	5772.1	5816.9	5727.3	5776.6	5776.6	5624.2	5592.8
42.5°	5897.6	6018.6	6081.3	6202.3	6247.1	6206.8	6188.9	6197.8	6296.4	6117.2	6049.9
45°	6480.1	6475.7	6663.9	6731.1	6605.6	6596.7	6560.8	6668.4	6735.6	6632.5	6605.6
47.5°	7112.0	7143.4	7251.0	7277.8	7354.0	7215.1	7215.1	7228.5	7466.1	7224.1	7098.6
50°	7681.2	7721.5	7936.6	8147.2	8003.8	7855.9	7914.2	7985.9	8115.9	7887.3	7779.8
52.5°	8371.3	8590.9	8734.3	8846.3	8949.4	8846.3	8711.9	8792.6	9048.0	8743.3	8608.8
55°	9366.2	9541.0	9675.4	9881.6	9966.7	9827.8	9814.3	9805.4	9948.8	9626.1	9442.4
57.5°	10477.6	10405.9	10621.0	10939.2	11248.4	11113.9	11073.6	11082.6	11118.4	10661.3	10522.4
60°	11857.9	11938.5	12194.0	12471.8	12799.0	12987.2	12722.8	12570.4	12601.8	11978.9	11763.8
62.5°	12646.6	12825.9	13404.0	14358.5	15017.3	15604.3	15644.7	14654.3	13991.0	12781.0	11866.8
65°	12265.7	12238.8	13327.8	15093.5	17589.6	19297.0	19041.6	16639.5	14322.6	12400.1	11172.2
67.5°	10432.8	10361.1	11678.6	14479.5	18602.4	22331.0	22039.7	17199.7	13202.3	10970.5	9581.3
70°	6722.1	6704.2	8133.8	11037.8	16608.2	20502.5	20610.1	15622.3	10746.5	8035.2	6659.4
72.5°	2442.4	2590.3	3419.3	5933.4	11279.8	15685.0	15752.2	11566.6	6179.9	3715.1	2738.2
75°	900.8	927.7	1080.0	1927.0	5140.2	9630.6	9881.6	5610.8	2195.9	1210.0	985.9
77.5°	519.8	524.3	578.1	717.0	1523.7	3759.9	3912.3	1702.9	851.5	645.3	596.0
80°	354.0	349.6	407.8	466.1	609.5	1066.6	1133.8	712.5	537.8	448.1	376.4
82.5°	206.1	219.6	300.3	331.6	372.0	470.6	479.5	443.7	403.3	331.6	246.5
85°	125.5	103.1	165.8	183.7	215.1	210.6	210.6	242.0	259.9	233.0	138.9
87.5°	31.4	31.4	40.3	44.8	58.3	44.8	49.3	94.1	125.5	116.5	71.7
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°	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7	4288.7
2.5°	4297.7	4284.2	4293.2	4342.5	4311.1	4217.0	4239.4	4288.7	4248.4	4226.0	4221.5
5°	4279.8	4306.7	4275.3	4284.2	4315.6	4239.4	4252.9	4315.6	4288.7	4297.7	4248.4
7.5°	4284.2	4297.7	4270.8	4230.5	4230.5	4293.2	4257.4	4266.3	4226.0	4293.2	4203.6
10°	4257.4	4221.5	4190.1	4212.5	4203.6	4185.7	4172.2	4199.1	4158.8	4217.0	4154.3
12.5°	4176.7	4185.7	4176.7	4167.7	4185.7	4230.5	4158.8	4167.7	4105.0	4114.0	4145.3
15°	4145.3	4172.2	4163.2	4212.5	4235.0	4167.7	4221.5	4167.7	4118.4	4091.5	4140.8
17.5°	4158.8	4199.1	4185.7	4221.5	4181.2	4230.5	4239.4	4217.0	4158.8	4136.4	4158.8
20°	4172.2	4158.8	4176.7	4239.4	4297.7	4248.4	4248.4	4235.0	4181.2	4149.8	4149.8
22.5°	4203.6	4181.2	4208.1	4257.4	4275.3	4351.5	4284.2	4252.9	4163.2	4082.6	4158.8
25°	4266.3	4279.8	4297.7	4279.8	4378.4	4369.4	4360.4	4338.0	4199.1	4203.6	4190.1
27.5°	4387.3	4311.1	4333.5	4441.1	4454.5	4490.4	4445.6	4485.9	4338.0	4342.5	4252.9
30°	4535.2	4454.5	4526.2	4620.4	4615.9	4683.1	4660.7	4669.6	4566.6	4508.3	4387.3
32.5°	4696.5	4687.6	4732.4	4790.6	4813.1	4848.9	4844.4	4844.4	4781.7	4629.3	4651.7
35°	4875.8	4938.5	4992.3	5055.1	5064.0	5108.8	5046.1	5055.1	4992.3	4880.3	4916.1
37.5°	5229.8	5225.3	5283.6	5359.8	5368.8	5332.9	5382.2	5359.8	5274.6	5198.5	5140.2
40°	5642.1	5552.5	5606.3	5785.5	5799.0	5736.2	5731.7	5727.3	5664.5	5498.7	5462.9
42.5°	6000.6	6117.2	6108.2	6166.4	6126.1	6094.7	6206.8	6144.0	6094.7	5920.0	5888.6
45°	6462.2	6498.1	6614.6	6802.8	6610.1	6610.1	6686.3	6637.0	6610.1	6480.1	6359.1
47.5°	7035.8	7067.2	7300.2	7313.7	7188.2	7103.1	7340.6	7349.5	7237.5	7138.9	6991.0
50°	7708.1	7721.5	7932.1	8147.2	8008.3	7847.0	8089.0	8183.1	7932.1	7797.7	7613.9
52.5°	8447.5	8407.2	8581.9	8985.3	8850.8	8801.5	9061.5	9083.9	8743.3	8532.6	8581.9
55°	9299.0	9245.2	9720.2	9993.6	9908.4	9818.8	9935.3	9989.1	9715.7	9370.7	9491.7
57.5°	10401.4	10428.3	10665.8	10934.7	11073.6	11096.0	11149.8	11096.0	10818.2	10468.6	10356.6
60°	11503.8	11584.5	12046.1	12552.5	12597.3	12991.7	12920.0	12651.1	12256.7	11759.3	11781.7
62.5°	11911.6	11844.4	12588.3	13825.2	14878.3	15599.9	15281.7	14327.1	13412.9	12507.7	12574.9
65°	11091.5	11257.4	12270.2	14206.1	16491.7	19346.3	17652.4	15012.8	13166.4	11996.8	11866.8
67.5°	9558.9	9684.4	10970.5	13014.1	17069.8	21649.8	18548.6	14044.8	11611.4	10096.7	10177.3
70°	6659.4	6722.1	7981.4	10661.3	15478.9	20430.8	16733.7	10786.8	8017.3	6390.5	6480.1
72.5°	2679.9	2832.3	3661.3	6421.9	11427.6	15523.7	11266.3	5660.0	3325.2	2473.7	2245.2
75°	990.4	994.9	1169.7	2209.3	5427.0	9756.1	5081.9	1819.5	1062.1	869.4	829.1
77.5°	573.6	569.1	609.5	797.7	1573.0	3809.2	1443.0	712.5	578.1	519.8	497.4
80°	358.5	354.0	416.8	528.8	690.1	1044.2	609.5	443.7	389.9	336.1	336.1
82.5°	228.6	233.0	327.1	389.9	421.3	461.6	354.0	313.7	291.3	192.7	188.2
85°	147.9	134.4	228.6	259.9	233.0	206.1	197.2	165.8	152.4	94.1	103.1
87.5°	67.2	71.7	116.5	130.0	85.1	49.3	49.3	35.9	35.9	22.4	22.4
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)