

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: P479227

Luminaire Tested: **IFLD-S-SA6D-727-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

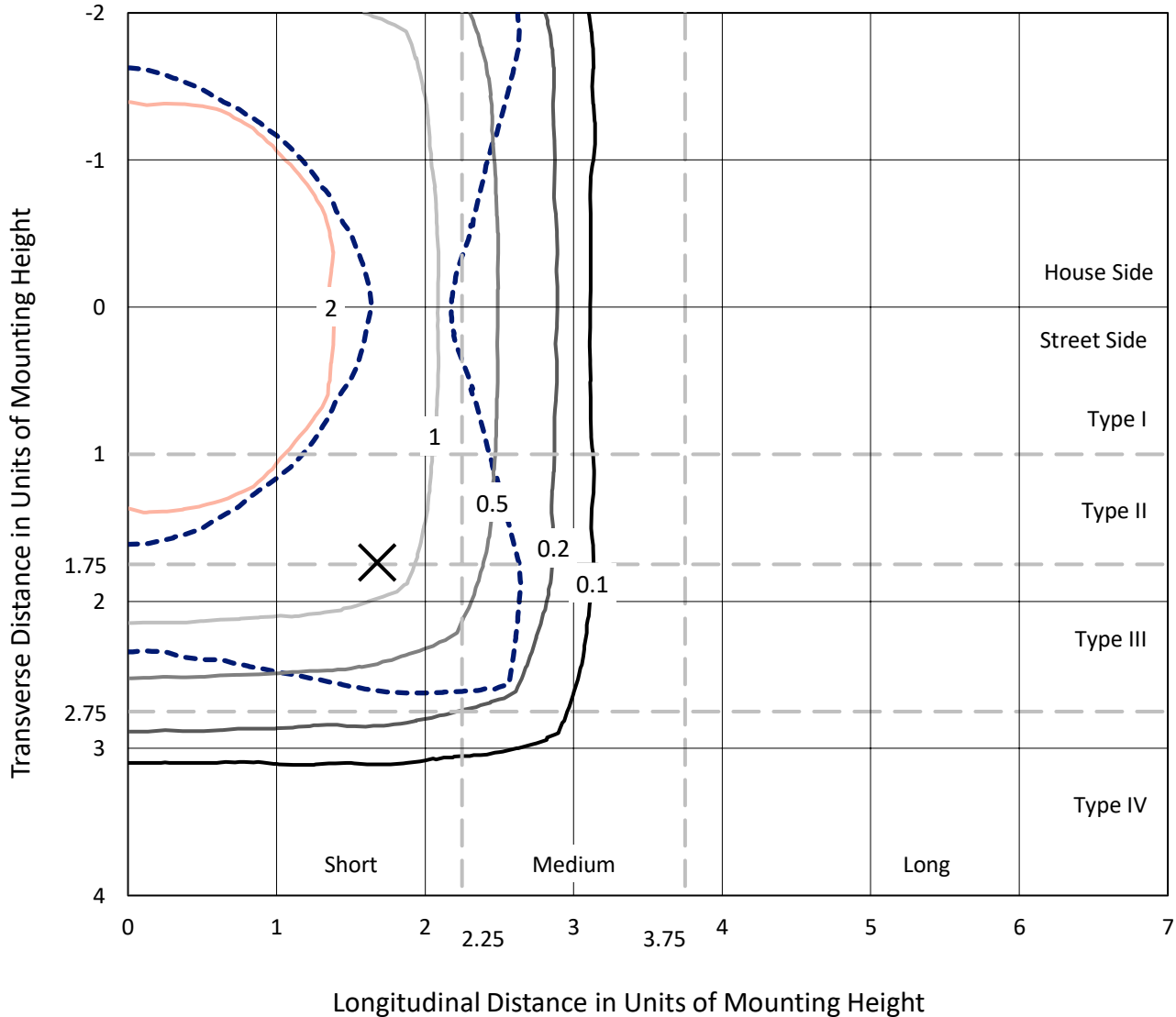
Lumens per Lamp: N/A
Luminaire Lumens: 38596.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
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

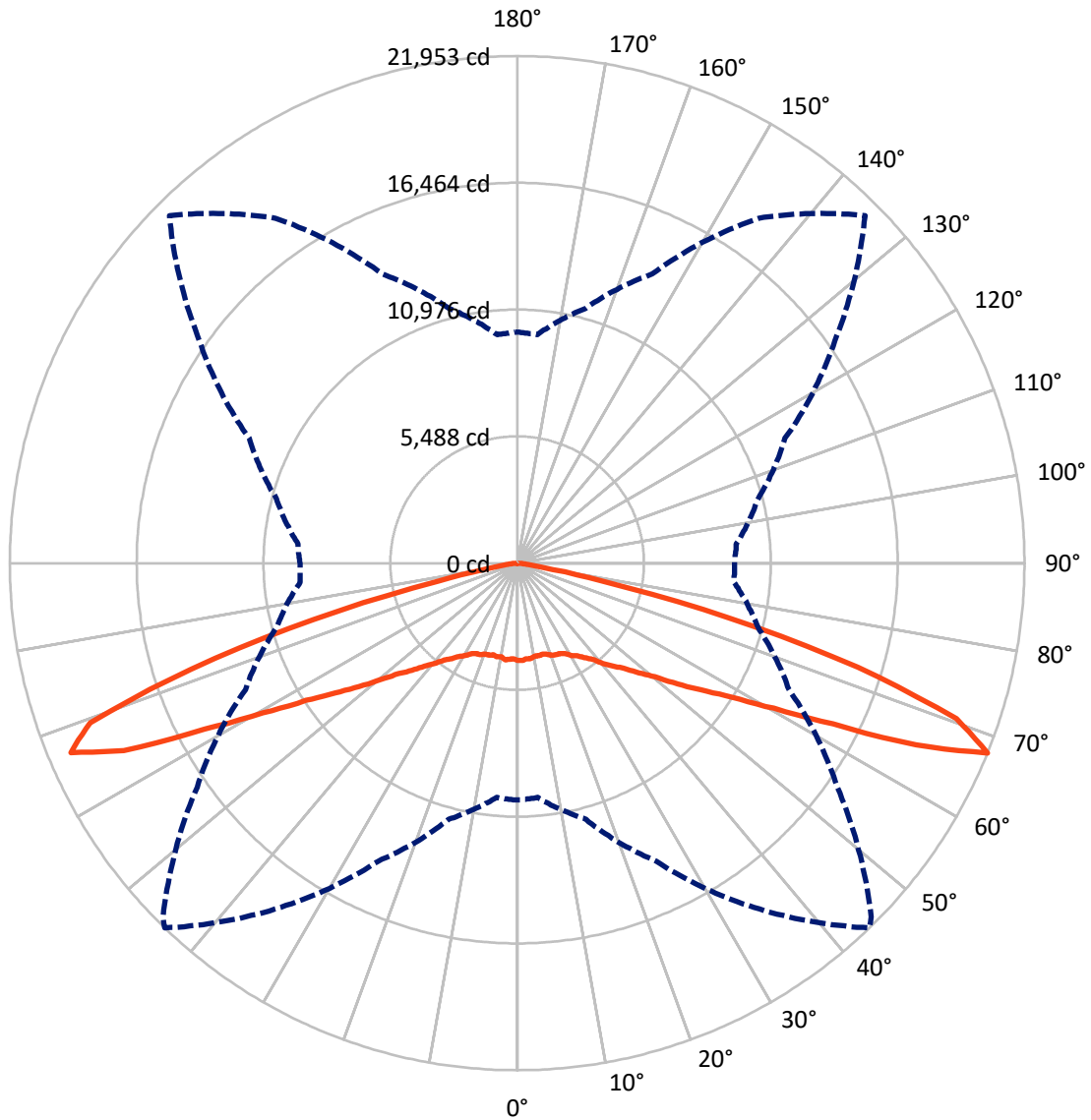
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	19249.0	0.0	19249.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	19347.9	0.0	19347.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	38596.9	0.0	38596.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	1.0
10°-20°	1165.6	3.0
20°-30°	1982.1	5.1
30°-40°	3142.7	8.1
40°-50°	5124.5	13.3
50°-60°	8751.9	22.7
60°-70°	13311.5	34.5
70°-80°	4486.8	11.6
80°-90°	233.0	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°	38596.9	100.0
0°-180°	38596.9	100.0

Coefficient of Utilization



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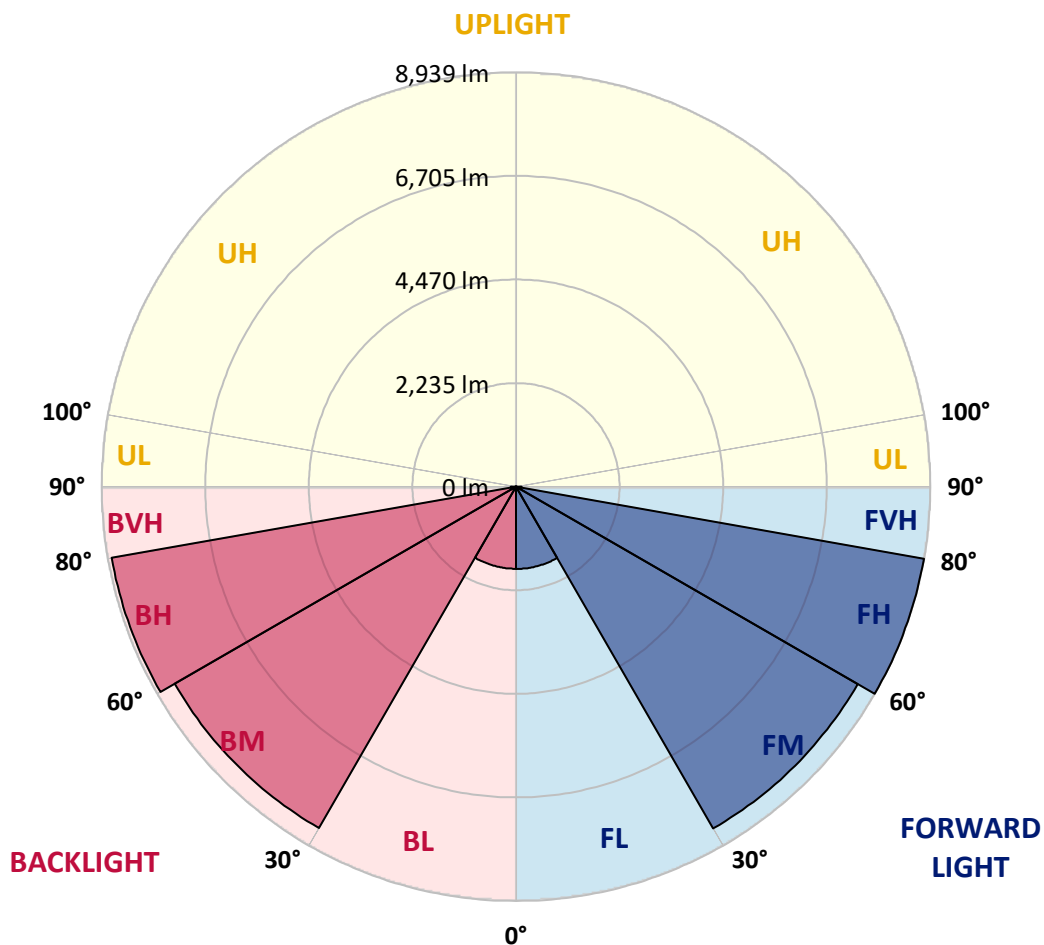
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.1	4.6			
FM (30°-60°)	8514.1	22.1			
FH (60°-80°)	8939.5	23.2			G4/12000
FVH (80°-90°)	119.2	0.3			G2/225
BL (0°-30°)	1771.5	4.6	B3/2500		
BM (30°-60°)	8504.9	22.0	B5		
BH (60°-80°)	8858.8	23.0	B5		G4/12000
BVH (80°-90°)	113.8	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°	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0
2.5°	4119.1	4167.6	4202.8	4198.4	4211.6	4224.9	4207.2	4233.7	4216.0	4246.9	4264.5
5°	4198.4	4185.2	4189.6	4163.2	4224.9	4154.4	4154.4	4189.6	4233.7	4180.8	4211.6
7.5°	4150.0	4141.2	4119.1	4158.8	4172.0	4172.0	4207.2	4141.2	4216.0	4233.7	4238.1
10°	4097.1	4048.6	4114.7	4154.4	4163.2	4092.7	4123.5	4141.2	4119.1	4141.2	4154.4
12.5°	4053.0	4079.5	4079.5	4079.5	4066.3	4114.7	4145.6	4141.2	4097.1	4136.8	4066.3
15°	4048.6	4035.4	4075.1	4110.3	4088.3	4097.1	4110.3	4150.0	4066.3	4083.9	4083.9
17.5°	4044.2	4061.9	4075.1	4070.7	4145.6	4145.6	4132.3	4105.9	4172.0	4136.8	4088.3
20°	4061.9	4048.6	4083.9	4097.1	4150.0	4255.7	4216.0	4194.0	4158.8	4114.7	4114.7
22.5°	4083.9	4075.1	4123.5	4180.8	4282.1	4308.6	4304.2	4277.7	4216.0	4163.2	4154.4
25°	4163.2	4083.9	4136.8	4246.9	4282.1	4335.0	4370.2	4335.0	4251.3	4264.5	4185.2
27.5°	4282.1	4268.9	4339.4	4414.3	4383.5	4431.9	4401.1	4427.5	4431.9	4365.8	4286.5
30°	4423.1	4383.5	4427.5	4572.9	4586.1	4639.0	4586.1	4515.6	4537.7	4480.4	4440.7
32.5°	4625.8	4612.5	4696.2	4793.2	4810.8	4784.4	4757.9	4797.6	4705.1	4661.0	4590.5
35°	4757.9	4815.2	4916.5	4991.4	5048.7	5022.3	5035.5	4995.8	5017.8	4925.3	4894.5
37.5°	5150.0	5128.0	5150.0	5277.8	5291.0	5277.8	5291.0	5335.0	5304.2	5224.9	5145.6
40°	5520.1	5484.8	5537.7	5683.1	5674.3	5718.3	5630.2	5678.7	5678.7	5528.9	5498.0
42.5°	5797.6	5916.6	5978.2	6097.2	6141.2	6101.6	6084.0	6092.8	6189.7	6013.5	5947.4
45°	6370.3	6365.9	6551.0	6617.0	6493.7	6484.9	6449.6	6555.4	6621.4	6520.1	6493.7
47.5°	6991.5	7022.3	7128.1	7154.5	7229.4	7092.8	7092.8	7106.0	7339.5	7101.6	6978.3
50°	7551.0	7590.7	7802.1	8009.2	7868.2	7722.8	7780.1	7850.6	7978.3	7753.7	7647.9
52.5°	8229.4	8445.3	8586.3	8696.4	8797.8	8696.4	8564.3	8643.6	8894.7	8595.1	8462.9
55°	9207.5	9379.3	9511.4	9714.1	9797.8	9661.2	9648.0	9639.2	9780.2	9463.0	9282.4
57.5°	10300.0	10229.5	10441.0	10753.8	11057.8	10925.6	10886.0	10894.8	10930.0	10480.7	10344.1
60°	11656.9	11736.2	11987.3	12260.5	12582.1	12767.1	12507.2	12357.4	12388.2	11775.9	11564.4
62.5°	12432.3	12608.5	13176.8	14115.2	14762.8	15339.9	15379.6	14405.9	13753.9	12564.4	11665.7
65°	12057.8	12031.4	13101.9	14837.7	17291.5	18970.0	18718.9	16357.6	14079.9	12190.0	10982.9
67.5°	10256.0	10185.5	11480.7	14234.1	18287.2	21952.5	21666.2	16908.3	12978.6	10784.6	9418.9
70°	6608.2	6590.6	7996.0	10850.7	16326.7	20155.1	20260.8	15357.5	10564.4	7899.0	6546.6
72.5°	2401.0	2546.4	3361.4	5832.9	11088.6	15419.2	15485.3	11370.6	6075.2	3652.1	2691.8
75°	885.5	911.9	1061.7	1894.4	5053.1	9467.4	9714.1	5515.7	2158.7	1189.5	969.2
77.5°	511.0	515.4	568.3	704.9	1497.9	3696.2	3846.0	1674.1	837.0	634.4	585.9
80°	348.0	343.6	400.9	458.2	599.1	1048.5	1114.6	700.5	528.7	440.5	370.1
82.5°	202.7	215.9	295.2	326.0	365.7	462.6	471.4	436.1	396.5	326.0	242.3
85°	123.4	101.3	163.0	180.6	211.5	207.1	207.1	237.9	255.5	229.1	136.6
87.5°	30.8	30.8	39.6	44.1	57.3	44.1	48.5	92.5	123.4	114.5	70.5
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°	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0	4216.0
2.5°	4224.9	4211.6	4220.5	4268.9	4238.1	4145.6	4167.6	4216.0	4176.4	4154.4	4150.0
5°	4207.2	4233.7	4202.8	4211.6	4242.5	4167.6	4180.8	4242.5	4216.0	4224.9	4176.4
7.5°	4211.6	4224.9	4198.4	4158.8	4158.8	4220.5	4185.2	4194.0	4154.4	4220.5	4132.3
10°	4185.2	4150.0	4119.1	4141.2	4132.3	4114.7	4101.5	4127.9	4088.3	4145.6	4083.9
12.5°	4105.9	4114.7	4105.9	4097.1	4114.7	4158.8	4088.3	4097.1	4035.4	4044.2	4075.1
15°	4075.1	4101.5	4092.7	4141.2	4163.2	4097.1	4150.0	4097.1	4048.6	4022.2	4070.7
17.5°	4088.3	4127.9	4114.7	4150.0	4110.3	4158.8	4167.6	4145.6	4088.3	4066.3	4088.3
20°	4101.5	4088.3	4105.9	4167.6	4224.9	4176.4	4176.4	4163.2	4110.3	4079.5	4079.5
22.5°	4132.3	4110.3	4136.8	4185.2	4202.8	4277.7	4211.6	4180.8	4092.7	4013.4	4088.3
25°	4194.0	4207.2	4224.9	4207.2	4304.2	4295.3	4286.5	4264.5	4127.9	4132.3	4119.1
27.5°	4313.0	4238.1	4260.1	4365.8	4379.1	4414.3	4370.2	4409.9	4264.5	4268.9	4180.8
30°	4458.4	4379.1	4449.5	4542.1	4537.7	4603.7	4581.7	4590.5	4489.2	4431.9	4313.0
32.5°	4616.9	4608.1	4652.2	4709.5	4731.5	4766.7	4762.3	4762.3	4700.7	4550.9	4572.9
35°	4793.2	4854.8	4907.7	4969.4	4978.2	5022.3	4960.6	4969.4	4907.7	4797.6	4832.8
37.5°	5141.2	5136.8	5194.1	5269.0	5277.8	5242.5	5291.0	5269.0	5185.3	5110.4	5053.1
40°	5546.5	5458.4	5511.3	5687.5	5700.7	5639.0	5634.6	5630.2	5568.5	5405.5	5370.3
42.5°	5898.9	6013.5	6004.7	6061.9	6022.3	5991.5	6101.6	6039.9	5991.5	5819.6	5788.8
45°	6352.7	6388.0	6502.5	6687.5	6498.1	6498.1	6573.0	6524.5	6498.1	6370.3	6251.4
47.5°	6916.6	6947.5	7176.5	7189.8	7066.4	6982.7	7216.2	7225.0	7114.9	7017.9	6872.6
50°	7577.4	7590.7	7797.7	8009.2	7872.6	7714.0	7951.9	8044.4	7797.7	7665.5	7484.9
52.5°	8304.3	8264.7	8436.5	8833.0	8700.8	8652.4	8907.9	8929.9	8595.1	8388.0	8436.5
55°	9141.4	9088.5	9555.5	9824.2	9740.5	9652.4	9767.0	9819.8	9551.1	9211.9	9330.8
57.5°	10225.1	10251.6	10485.1	10749.4	10886.0	10908.0	10960.8	10908.0	10634.8	10291.2	10181.1
60°	11308.9	11388.2	11841.9	12339.8	12383.8	12771.5	12701.0	12436.7	12049.0	11560.0	11582.0
62.5°	11709.8	11643.7	12375.0	13590.9	14626.2	15335.5	15022.7	14084.3	13185.6	12295.7	12361.8
65°	10903.6	11066.6	12062.2	13965.4	16212.2	19018.5	17353.2	14758.4	12943.3	11793.5	11665.7
67.5°	9396.9	9520.3	10784.6	12793.5	16780.5	21282.9	18234.3	13806.8	11414.6	9925.6	10004.9
70°	6546.6	6608.2	7846.2	10480.7	15216.5	20084.6	16450.1	10604.0	7881.4	6282.2	6370.3
72.5°	2634.5	2784.3	3599.3	6313.1	11234.0	15260.6	11075.4	5564.1	3268.9	2431.8	2207.1
75°	973.6	978.0	1149.8	2171.9	5335.0	9590.7	4995.8	1788.6	1044.1	854.7	815.0
77.5°	563.9	559.5	599.1	784.2	1546.3	3744.7	1418.6	700.5	568.3	511.0	489.0
80°	352.4	348.0	409.7	519.8	678.4	1026.5	599.1	436.1	383.3	330.4	330.4
82.5°	224.7	229.1	321.6	383.3	414.1	453.8	348.0	308.4	286.4	189.4	185.0
85°	145.4	132.2	224.7	255.5	229.1	202.7	193.8	163.0	149.8	92.5	101.3
87.5°	66.1	70.5	114.5	127.8	83.7	48.5	48.5	35.2	35.2	22.0	22.0
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)