

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: P481302

Luminaire Tested: **IFLD-L-SA7B-740-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481302  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

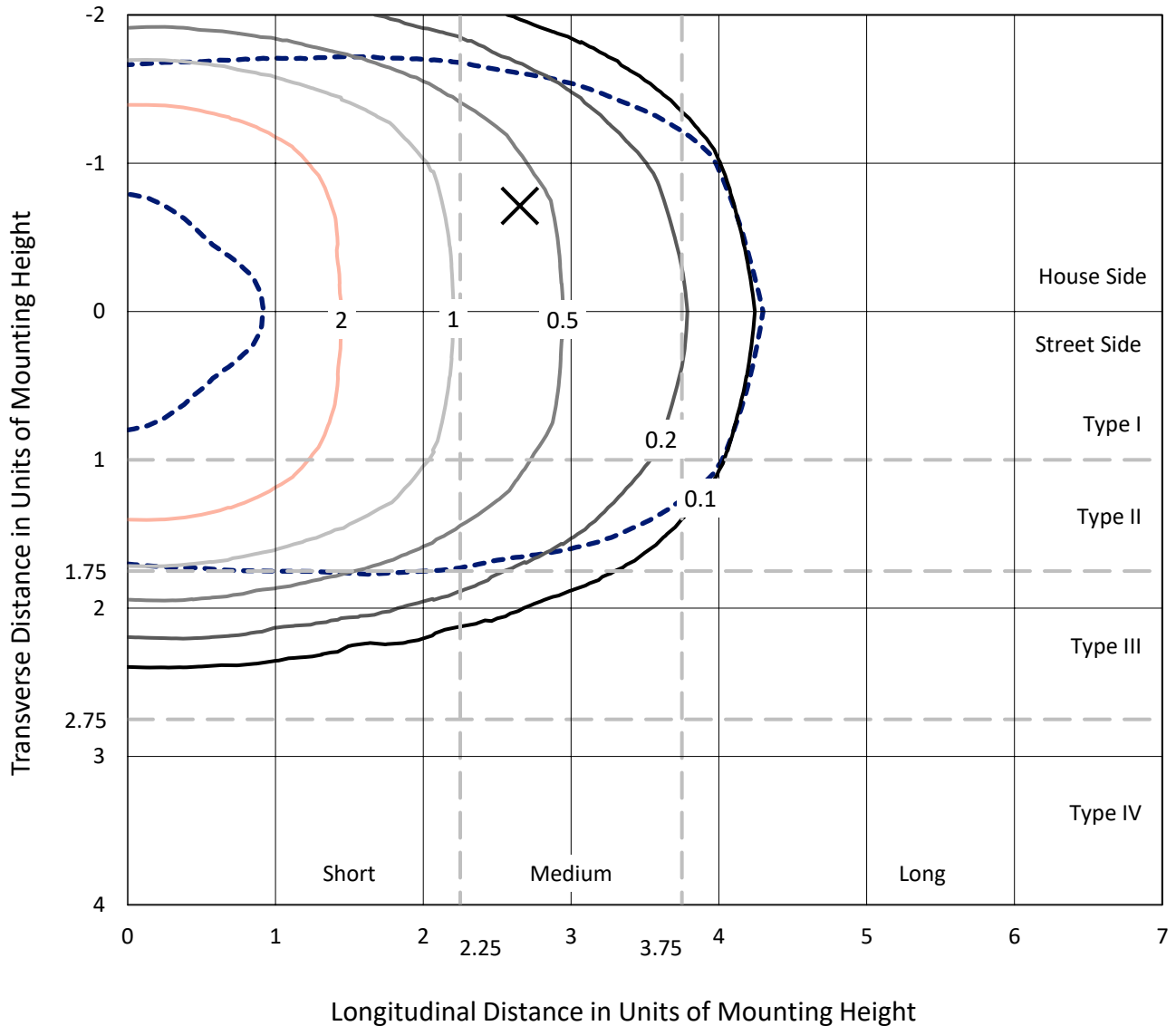
Lumens per Lamp: N/A  
Luminaire Lumens: 36681.4 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

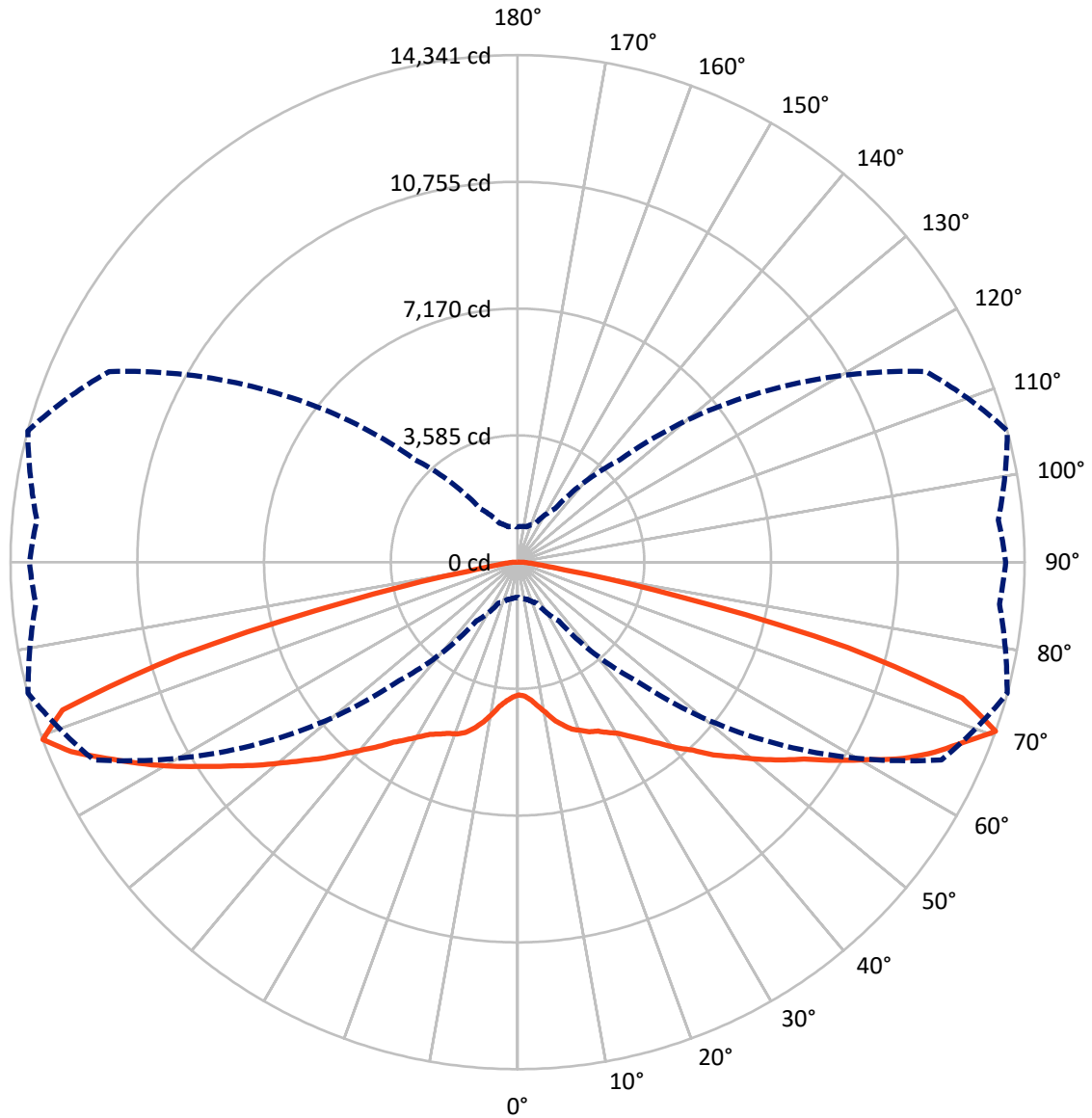
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	18210.2	0.0	18210.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	18471.2	0.0	18471.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	36681.4	0.0	36681.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.9	1.0
10°-20°	1273.0	3.5
20°-30°	2464.9	6.7
30°-40°	4169.2	11.4
40°-50°	6651.1	18.1
50°-60°	9103.9	24.8
60°-70°	8581.0	23.4
70°-80°	3780.2	10.3
80°-90°	284.4	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°	36681.4	100.0
0°-180°	36681.4	100.0

**Coefficient of Utilization**

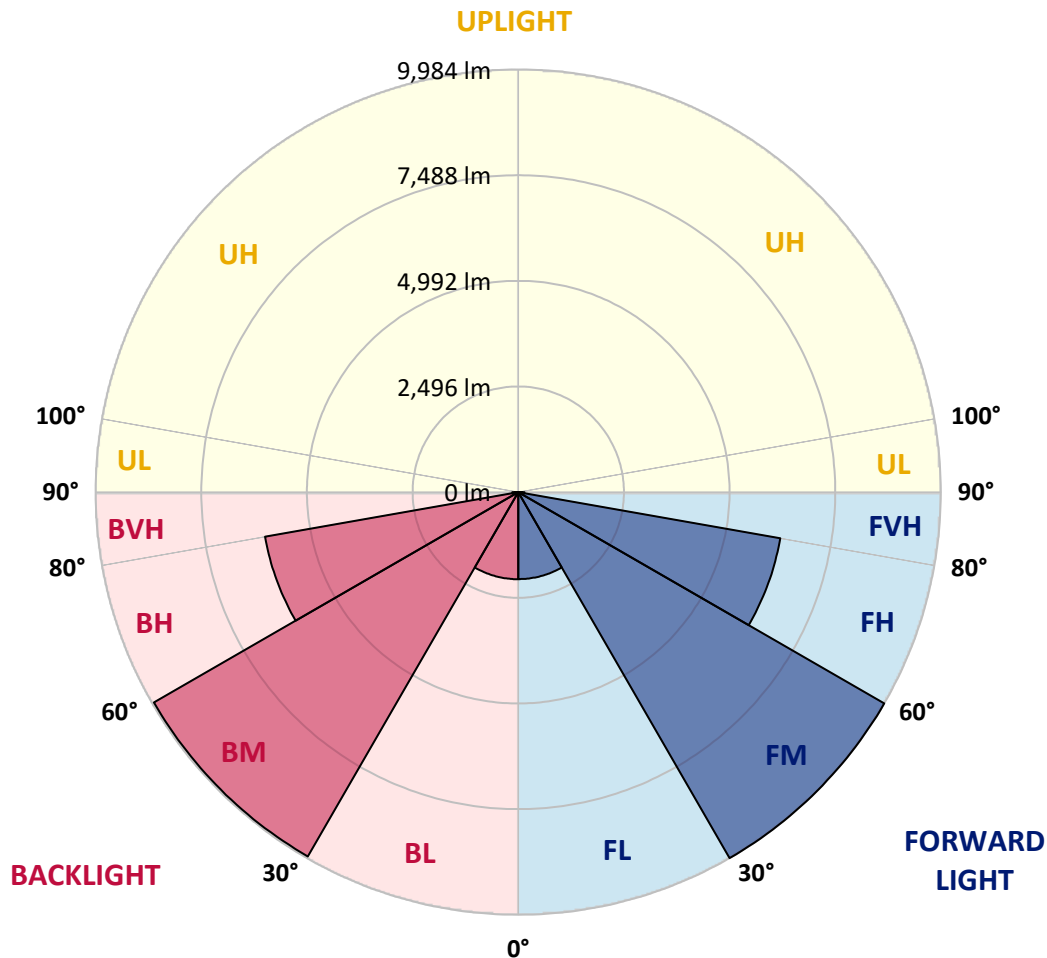


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.7	5.6			
FM (30°-60°)	9984.4	27.2			
FH (60°-80°)	6286.8	17.1			G3/7500
FVH (80°-90°)	145.3	0.4			G2/225
BL (0°-30°)	2057.0	5.6	B3/2500		
BM (30°-60°)	9939.7	27.1	B5		
BH (60°-80°)	6074.4	16.6	B5		G5
BVH (80°-90°)	139.1	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°	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1
2.5°	3732.4	3732.4	3728.5	3748.2	3768.0	3775.9	3791.7	3795.7	3819.4	3799.6	3839.2
5°	3720.6	3716.6	3748.2	3795.7	3795.7	3847.1	3878.7	3922.2	3934.1	3957.8	3965.7
7.5°	3803.6	3795.7	3779.9	3831.3	3874.8	3953.8	3997.3	4072.4	4100.1	4131.8	4167.3
10°	3855.0	3855.0	3839.2	3930.1	3969.6	4076.4	4171.3	4246.4	4353.2	4388.8	4392.7
12.5°	3862.9	3874.8	3922.2	4040.8	4151.5	4289.9	4361.1	4503.4	4610.2	4677.4	4701.1
15°	3981.5	3957.8	4009.2	4171.3	4333.4	4456.0	4582.5	4685.3	4839.5	4926.5	4981.8
17.5°	4088.3	4064.5	4159.4	4353.2	4519.2	4709.0	4819.7	4930.4	5041.1	5120.2	5124.2
20°	4258.3	4278.0	4361.1	4570.6	4788.1	4954.2	5080.7	5100.4	5155.8	5270.5	5250.7
22.5°	4467.8	4452.0	4626.0	4855.3	5092.5	5230.9	5302.1	5250.7	5223.0	5345.6	5373.3
25°	4677.4	4724.8	4883.0	5096.5	5381.2	5567.0	5586.8	5444.4	5341.6	5385.1	5373.3
27.5°	4997.6	5005.6	5171.6	5424.7	5713.3	5875.4	5863.5	5661.9	5464.2	5468.2	5476.1
30°	5408.8	5369.3	5551.2	5780.5	6065.2	6211.5	6231.2	5942.6	5677.7	5598.6	5618.4
32.5°	5804.2	5851.7	6009.8	6270.8	6480.3	6563.4	6519.9	6262.9	5918.9	5812.1	5824.0
35°	6310.3	6302.4	6519.9	6741.3	6899.4	6915.3	6879.7	6504.1	6179.8	6041.5	5986.1
37.5°	6852.0	6923.2	7065.5	7247.4	7413.4	7421.3	7227.6	6927.1	6527.8	6298.5	6365.7
40°	7456.9	7536.0	7638.8	7903.7	8026.3	7899.8	7702.1	7294.8	6879.7	6678.0	6709.7
42.5°	7990.7	8026.3	8235.8	8548.2	8607.5	8552.1	8259.6	7765.3	7283.0	7061.5	7077.4
45°	8481.0	8528.4	8801.2	9082.0	9220.3	9125.4	8785.4	8314.9	7753.5	7563.7	7488.6
47.5°	8931.7	9026.6	9291.5	9580.1	9793.6	9801.6	9382.4	8813.1	8220.0	7970.9	7967.0
50°	9236.2	9374.5	9635.5	9963.7	10276.0	10398.6	9979.5	9366.6	8730.1	8465.2	8437.5
52.5°	9402.2	9544.6	9805.5	10315.5	10663.5	10853.3	10655.6	9884.6	9327.1	9050.3	9006.8
55°	9200.6	9295.5	9722.5	10438.1	10975.8	11288.2	11157.7	10600.2	9920.2	9694.8	9734.3
57.5°	8342.6	8540.3	9066.1	9959.7	10967.9	11735.0	11723.1	11276.3	10604.2	10390.7	10398.6
60°	6867.8	7033.9	7682.3	8931.7	10525.1	11916.9	12336.0	11932.7	11371.2	11122.1	11114.2
62.5°	4847.4	5057.0	5808.2	7172.3	9220.3	11663.8	13039.7	12759.0	12122.4	11940.6	12007.8
65°	2712.3	2838.9	3534.7	4768.3	7026.0	10272.1	13166.3	13617.0	12885.5	12608.8	12620.6
67.5°	1451.1	1498.5	1822.7	2502.8	4297.8	7919.5	11889.2	14111.2	13711.9	13233.5	13158.4
70°	996.4	1012.2	1095.2	1281.0	2032.3	4736.7	8967.3	13229.5	14332.6	13680.3	13806.8
72.5°	842.2	834.3	854.0	873.8	1063.6	2119.3	5262.6	10181.1	13530.0	13284.9	13237.4
75°	731.5	727.5	735.4	715.6	739.4	933.1	2328.8	6345.9	9904.4	11054.9	11232.8
77.5°	604.9	608.9	612.8	593.1	585.2	616.8	937.1	2787.5	4875.1	5381.2	5804.2
80°	458.6	466.6	498.2	478.4	446.8	450.7	553.5	933.1	1399.7	1269.2	1308.7
82.5°	312.4	316.3	383.5	359.8	336.1	304.4	355.8	482.4	545.6	415.2	363.8
85°	221.4	217.5	249.1	229.3	213.5	154.2	213.5	272.8	328.2	205.6	185.8
87.5°	51.4	51.4	102.8	83.0	79.1	63.3	83.0	106.8	142.3	90.9	83.0
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°	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1	3756.1
2.5°	3827.3	3791.7	3791.7	3783.8	3752.2	3744.3	3716.6	3724.5	3704.7	3685.0
5°	3961.7	3914.3	3914.3	3847.1	3783.8	3775.9	3744.3	3744.3	3712.6	3720.6
7.5°	4147.6	4104.1	4032.9	3973.6	3886.6	3851.0	3791.7	3783.8	3775.9	3760.1
10°	4369.0	4313.6	4242.5	4119.9	4048.7	3981.5	3922.2	3839.2	3819.4	3823.4
12.5°	4669.5	4582.5	4428.3	4321.5	4230.6	4143.6	4056.6	3934.1	3906.4	3918.2
15°	4883.0	4772.3	4618.1	4578.5	4456.0	4349.2	4206.9	4068.5	4021.0	4009.2
17.5°	5057.0	4966.0	4875.1	4815.8	4716.9	4586.4	4388.8	4230.6	4123.8	4112.0
20°	5199.3	5080.7	5060.9	5096.5	4973.9	4886.9	4645.8	4452.0	4309.7	4250.4
22.5°	5286.3	5211.2	5266.5	5298.1	5290.2	5143.9	4894.8	4669.5	4491.6	4436.2
25°	5381.2	5294.2	5491.9	5598.6	5626.3	5385.1	5191.4	4894.8	4720.9	4685.3
27.5°	5428.6	5460.2	5689.6	5914.9	5895.2	5709.3	5448.4	5183.5	5045.1	4981.8
30°	5567.0	5618.4	5966.3	6219.4	6223.3	6041.5	5843.8	5543.3	5389.1	5361.4
32.5°	5816.1	5879.3	6251.0	6519.9	6567.3	6428.9	6231.2	6045.4	5887.3	5824.0
35°	6005.9	6168.0	6587.1	6832.2	6958.7	6875.7	6765.0	6571.3	6405.2	6349.9
37.5°	6278.7	6504.1	6907.3	7239.5	7381.8	7373.9	7290.9	7081.3	6942.9	6895.5
40°	6670.1	6895.5	7263.2	7702.1	7967.0	7955.1	7907.7	7745.6	7540.0	7516.2
42.5°	7085.3	7271.1	7749.5	8251.6	8631.2	8591.7	8465.2	8275.4	8133.0	8101.4
45°	7488.6	7777.2	8220.0	8864.5	9149.2	9248.0	9097.8	8773.6	8611.4	8591.7
47.5°	7994.6	8224.0	8777.5	9354.8	9777.8	9793.6	9536.6	9236.2	8939.6	9002.9
50°	8445.4	8749.8	9311.3	9943.9	10450.0	10268.1	9939.9	9564.3	9350.8	9267.8
52.5°	8927.8	9299.4	9951.8	10596.3	10877.0	10695.1	10161.3	9742.2	9418.0	9382.4
55°	9631.5	9825.3	10679.3	11173.5	11264.5	10880.9	10094.1	9501.1	9082.0	8979.2
57.5°	10347.2	10572.5	11319.8	11746.8	11651.9	10778.1	9659.2	8741.9	8192.3	8046.0
60°	11070.7	11347.5	11976.2	12367.6	11877.3	10070.4	8429.6	7247.4	6606.9	6476.4
62.5°	11877.3	12237.1	12798.6	12936.9	11209.1	8670.8	6689.9	5230.9	4582.5	4365.0
65°	12593.0	12960.7	13652.6	12818.3	9789.7	6468.5	4325.5	2989.1	2510.7	2336.7
67.5°	13182.1	13597.2	13937.3	11343.5	7168.3	3787.8	2253.7	1573.6	1395.7	1332.4
70°	13648.6	14340.5	12751.1	8338.6	4096.2	1846.4	1217.8	1035.9	1012.2	996.4
72.5°	13241.4	13150.4	9520.8	4811.8	1795.0	1016.1	881.7	854.0	850.1	854.0
75°	10829.5	9659.2	5693.5	2091.6	901.5	735.4	731.5	719.6	739.4	739.4
77.5°	5254.6	4594.4	2380.2	897.5	593.1	577.3	597.0	597.0	597.0	597.0
80°	1217.8	1348.3	850.1	545.6	431.0	431.0	474.5	478.4	458.6	450.7
82.5°	415.2	553.5	466.6	344.0	284.7	320.3	359.8	367.7	304.4	308.4
85°	205.6	324.2	253.0	197.7	146.3	197.7	233.3	245.1	209.6	201.6
87.5°	94.9	142.3	94.9	67.2	51.4	71.2	67.2	55.4	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)