

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: P481190

Luminaire Tested: **IFLD-L-SA8B-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

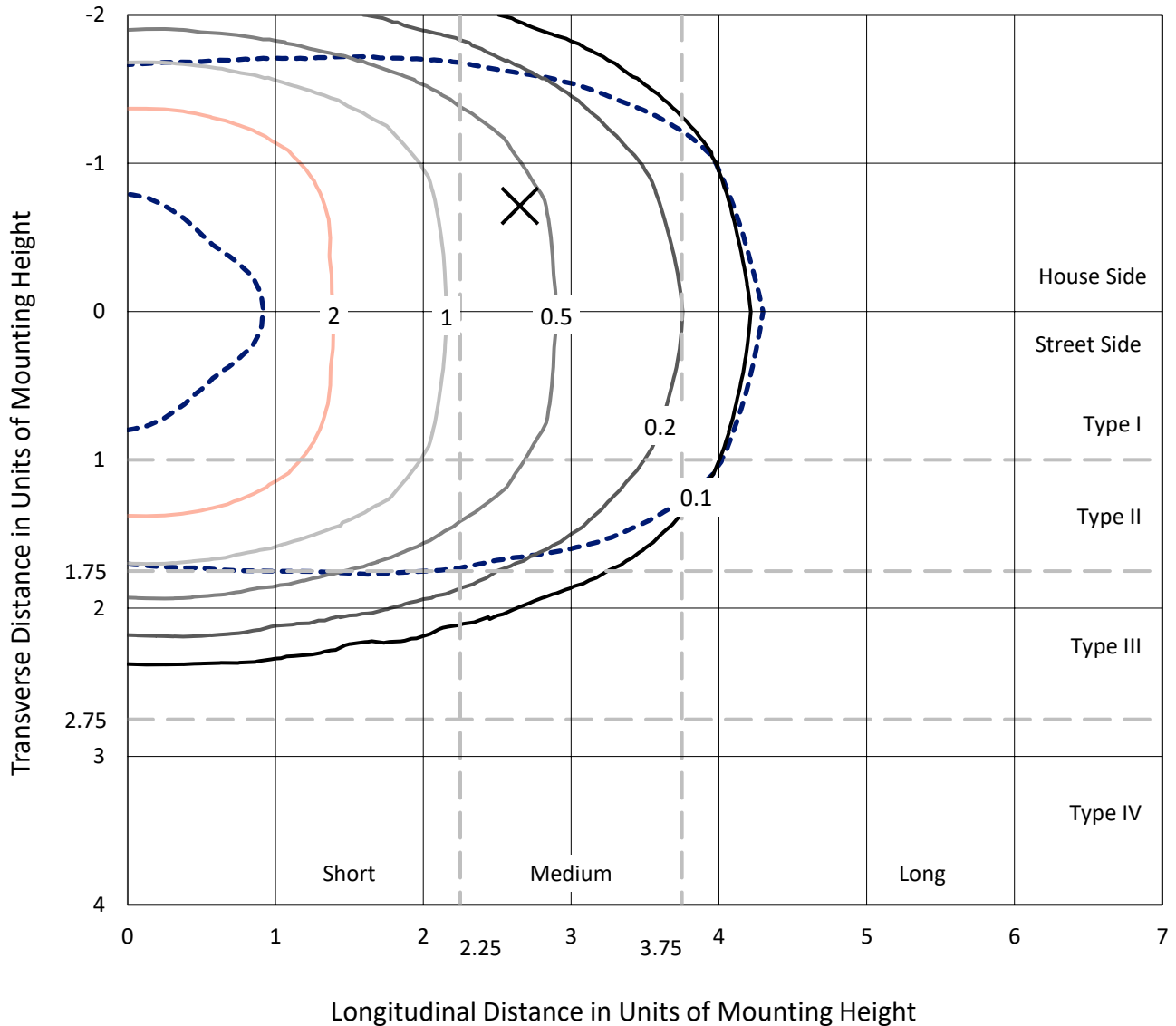
Lumens per Lamp: N/A
Luminaire Lumens: 35058.3 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 320
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

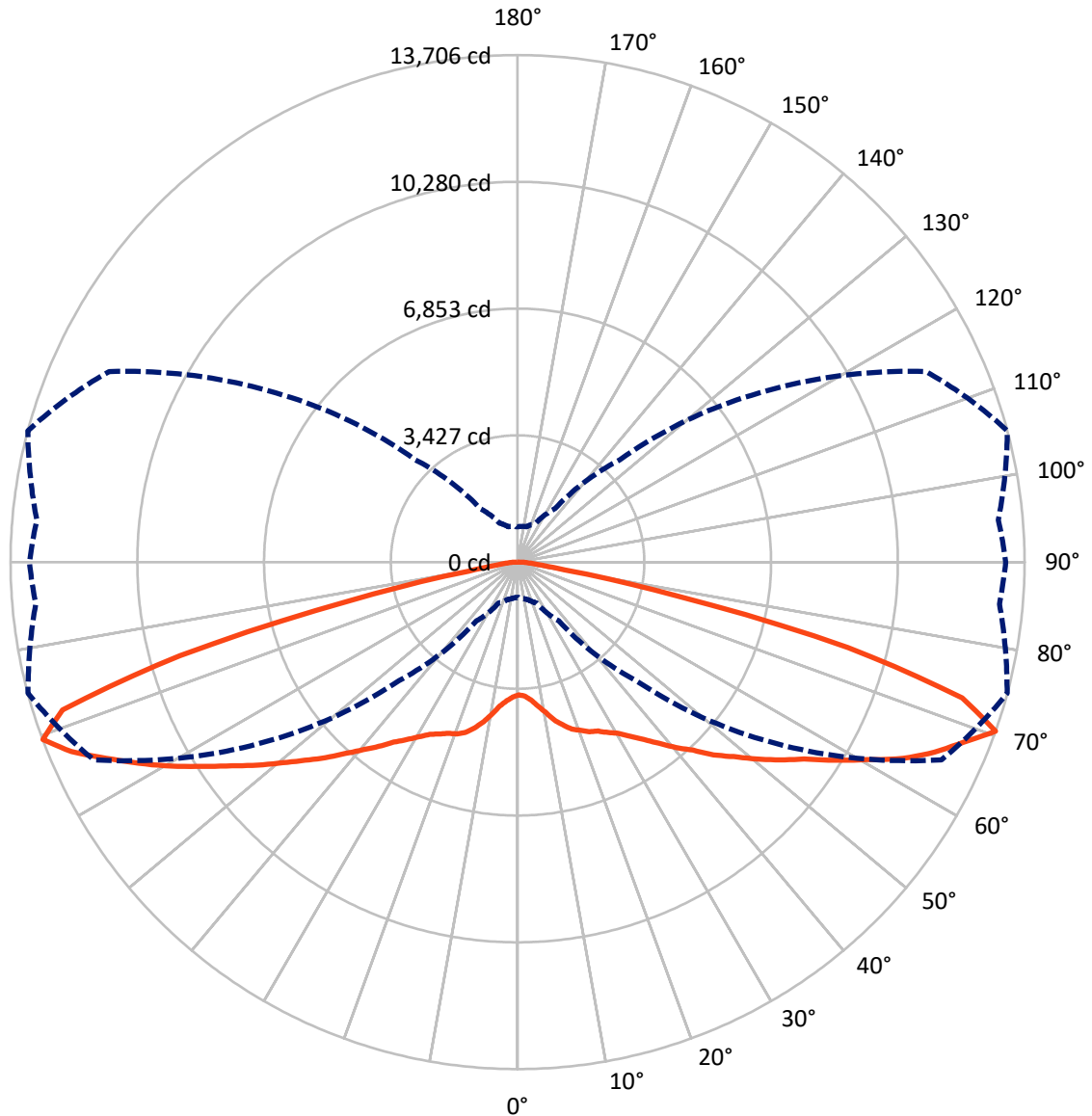
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	17404.5	0.0	17404.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17653.9	0.0	17653.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	35058.3	0.0	35058.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.0
10°-20°	1216.6	3.5
20°-30°	2355.8	6.7
30°-40°	3984.7	11.4
40°-50°	6356.8	18.1
50°-60°	8701.0	24.8
60°-70°	8201.3	23.4
70°-80°	3612.9	10.3
80°-90°	271.8	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°	35058.3	100.0
0°-180°	35058.3	100.0

Coefficient of Utilization

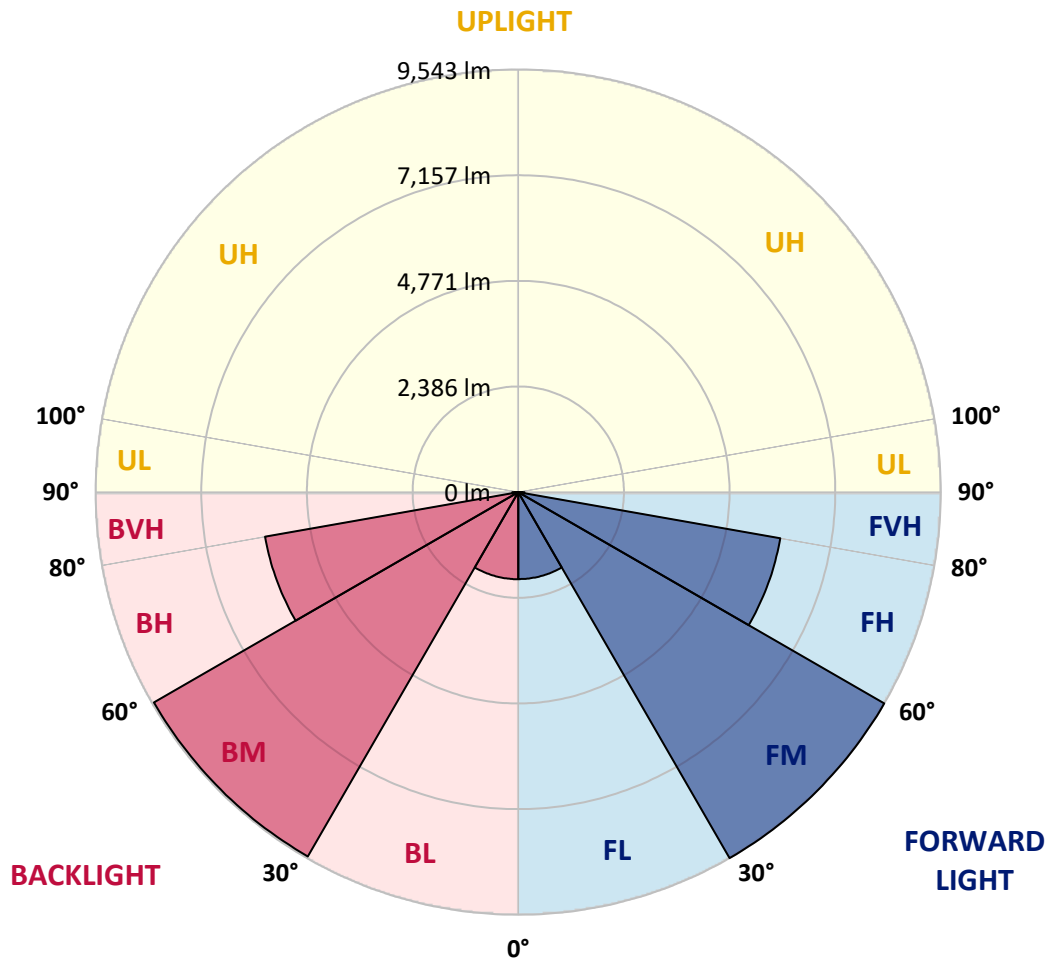


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.8	5.6			
FM (30°-60°)	9542.6	27.2			
FH (60°-80°)	6008.6	17.1			G3/7500
FVH (80°-90°)	138.9	0.4			G2/225
BL (0°-30°)	1966.0	5.6	B3/2500		
BM (30°-60°)	9499.9	27.1	B5		
BH (60°-80°)	5805.6	16.6	B5		G5
BVH (80°-90°)	133.0	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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CATALOG NUMBER: IFLD-L-SA8B-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9
2.5°	3567.3	3567.3	3563.5	3582.4	3601.3	3608.8	3623.9	3627.7	3650.4	3631.5	3669.3
5°	3555.9	3552.1	3582.4	3627.7	3627.7	3676.9	3707.1	3748.7	3760.0	3782.7	3790.2
7.5°	3635.3	3627.7	3612.6	3661.7	3703.3	3778.9	3820.5	3892.2	3918.7	3948.9	3982.9
10°	3684.4	3684.4	3669.3	3756.2	3794.0	3896.0	3986.7	4058.5	4160.5	4194.6	4198.3
12.5°	3692.0	3703.3	3748.7	3862.0	3967.8	4100.1	4168.1	4304.1	4406.2	4470.4	4493.1
15°	3805.3	3782.7	3831.8	3986.7	4141.7	4258.8	4379.7	4478.0	4625.4	4708.5	4761.4
17.5°	3907.4	3884.7	3975.4	4160.5	4319.3	4500.6	4606.5	4712.3	4818.1	4893.7	4897.4
20°	4069.9	4088.8	4168.1	4368.4	4576.2	4734.9	4855.9	4874.8	4927.7	5037.3	5018.4
22.5°	4270.1	4255.0	4421.3	4640.5	4867.2	4999.5	5067.5	5018.4	4991.9	5109.0	5135.5
25°	4470.4	4515.8	4666.9	4871.0	5143.1	5320.7	5339.6	5203.5	5105.3	5146.8	5135.5
27.5°	4776.5	4784.1	4942.8	5184.6	5460.5	5615.4	5604.1	5411.4	5222.4	5226.2	5233.8
30°	5169.5	5131.7	5305.6	5524.7	5796.8	5936.6	5955.5	5679.7	5426.5	5350.9	5369.8
32.5°	5547.4	5592.7	5743.9	5993.3	6193.6	6272.9	6231.4	5985.7	5657.0	5555.0	5566.3
35°	6031.1	6023.5	6231.4	6443.0	6594.1	6609.3	6575.3	6216.3	5906.4	5774.1	5721.2
37.5°	6548.8	6616.8	6752.9	6926.7	7085.4	7093.0	6907.8	6620.6	6238.9	6019.8	6084.0
40°	7127.0	7202.5	7300.8	7554.0	7671.1	7550.2	7361.3	6972.0	6575.3	6382.5	6412.8
42.5°	7637.1	7671.1	7871.4	8169.9	8226.6	8173.7	7894.1	7421.7	6960.7	6749.1	6764.2
45°	8105.7	8151.0	8411.8	8680.1	8812.4	8721.7	8396.7	7947.0	7410.4	7229.0	7157.2
47.5°	8536.5	8627.2	8880.4	9156.2	9360.3	9367.8	8967.3	8423.1	7856.3	7618.2	7614.4
50°	8827.5	8959.7	9209.1	9522.8	9821.3	9938.5	9537.9	8952.2	8343.8	8090.6	8064.1
52.5°	8986.2	9122.2	9371.6	9859.1	10191.6	10373.0	10184.1	9447.2	8914.4	8649.9	8608.3
55°	8793.5	8884.2	9292.3	9976.2	10490.2	10788.7	10664.0	10131.2	9481.2	9265.8	9303.6
57.5°	7973.4	8162.4	8665.0	9519.0	10482.6	11215.7	11204.4	10777.4	10135.0	9930.9	9938.5
60°	6563.9	6722.6	7342.4	8536.5	10059.4	11389.6	11790.1	11404.7	10868.1	10630.0	10622.4
62.5°	4632.9	4833.2	5551.2	6854.9	8812.4	11147.7	12462.8	12194.5	11586.1	11412.2	11476.5
65°	2592.3	2713.2	3378.3	4557.3	6715.1	9817.5	12583.7	13014.5	12315.4	12050.9	12062.2
67.5°	1386.8	1432.2	1742.1	2392.0	4107.6	7569.1	11363.1	13486.8	13105.2	12647.9	12576.1
70°	952.3	967.4	1046.8	1224.4	1942.3	4527.1	8570.5	12644.1	13698.4	13074.9	13195.9
72.5°	804.9	797.3	816.2	835.1	1016.5	2025.5	5029.7	9730.6	12931.3	12697.0	12651.7
75°	699.1	695.3	702.9	684.0	706.7	891.8	2225.8	6065.1	9466.1	10565.8	10735.8
77.5°	578.2	581.9	585.7	566.8	559.3	589.5	895.6	2664.1	4659.4	5143.1	5547.4
80°	438.4	445.9	476.1	457.2	427.0	430.8	529.0	891.8	1337.7	1213.0	1250.8
82.5°	298.5	302.3	366.6	343.9	321.2	291.0	340.1	461.0	521.5	396.8	347.7
85°	211.6	207.8	238.1	219.2	204.1	147.4	204.1	260.7	313.6	196.5	177.6
87.5°	49.1	49.1	98.3	79.4	75.6	60.5	79.4	102.0	136.0	86.9	79.4
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°	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9	3589.9
2.5°	3658.0	3623.9	3623.9	3616.4	3586.2	3578.6	3552.1	3559.7	3540.8	3521.9
5°	3786.4	3741.1	3741.1	3676.9	3616.4	3608.8	3578.6	3578.6	3548.4	3555.9
7.5°	3964.0	3922.5	3854.5	3797.8	3714.6	3680.6	3623.9	3616.4	3608.8	3593.7
10°	4175.7	4122.8	4054.7	3937.6	3869.6	3805.3	3748.7	3669.3	3650.4	3654.2
12.5°	4462.9	4379.7	4232.3	4130.3	4043.4	3960.3	3877.1	3760.0	3733.5	3744.9
15°	4666.9	4561.1	4413.7	4375.9	4258.8	4156.8	4020.7	3888.5	3843.1	3831.8
17.5°	4833.2	4746.3	4659.4	4602.7	4508.2	4383.5	4194.6	4043.4	3941.4	3930.0
20°	4969.2	4855.9	4837.0	4871.0	4753.8	4670.7	4440.2	4255.0	4119.0	4062.3
22.5°	5052.4	4980.6	5033.5	5063.7	5056.1	4916.3	4678.3	4462.9	4292.8	4239.9
25°	5143.1	5059.9	5248.9	5350.9	5377.3	5146.8	4961.7	4678.3	4512.0	4478.0
27.5°	5188.4	5218.6	5437.8	5653.2	5634.3	5456.7	5207.3	4954.1	4821.9	4761.4
30°	5320.7	5369.8	5702.3	5944.2	5948.0	5774.1	5585.2	5298.0	5150.6	5124.2
32.5°	5558.7	5619.2	5974.4	6231.4	6276.7	6144.5	5955.5	5777.9	5626.8	5566.3
35°	5740.1	5895.1	6295.6	6529.9	6650.8	6571.5	6465.7	6280.5	6121.8	6068.9
37.5°	6000.9	6216.3	6601.7	6919.1	7055.2	7047.6	6968.3	6768.0	6635.7	6590.4
40°	6375.0	6590.4	6941.8	7361.3	7614.4	7603.1	7557.8	7402.8	7206.3	7183.7
42.5°	6771.8	6949.4	7406.6	7886.5	8249.3	8211.5	8090.6	7909.2	7773.2	7742.9
45°	7157.2	7433.1	7856.3	8472.3	8744.3	8838.8	8695.2	8385.3	8230.4	8211.5
47.5°	7640.9	7860.1	8389.1	8940.8	9345.2	9360.3	9114.7	8827.5	8544.1	8604.5
50°	8071.7	8362.7	8899.3	9503.9	9987.6	9813.8	9500.1	9141.1	8937.1	8857.7
52.5°	8532.7	8887.9	9511.4	10127.4	10395.7	10221.9	9711.7	9311.2	9001.3	8967.3
55°	9205.4	9390.5	10206.8	10679.1	10766.0	10399.5	9647.5	9080.7	8680.1	8581.8
57.5°	9889.3	10104.7	10818.9	11227.1	11136.4	10301.2	9231.8	8355.1	7829.8	7690.0
60°	10580.9	10845.4	11446.2	11820.3	11351.8	9624.8	8056.6	6926.7	6314.5	6189.8
62.5°	11351.8	11695.6	12232.2	12364.5	10713.1	8287.1	6393.9	4999.5	4379.7	4171.9
65°	12035.7	12387.2	13048.5	12251.1	9356.5	6182.3	4134.1	2856.8	2399.6	2233.3
67.5°	12598.8	12995.6	13320.6	10841.6	6851.1	3620.2	2154.0	1504.0	1333.9	1273.5
70°	13044.7	13706.0	12186.9	7969.7	3914.9	1764.7	1163.9	990.1	967.4	952.3
72.5°	12655.5	12568.6	9099.5	4598.9	1715.6	971.2	842.7	816.2	812.5	816.2
75°	10350.4	9231.8	5441.6	1999.0	861.6	702.9	699.1	687.8	706.7	706.7
77.5°	5022.1	4391.1	2274.9	857.8	566.8	551.7	570.6	570.6	570.6	570.6
80°	1163.9	1288.6	812.5	521.5	411.9	411.9	453.5	457.2	438.4	430.8
82.5°	396.8	529.0	445.9	328.8	272.1	306.1	343.9	351.4	291.0	294.8
85°	196.5	309.9	241.8	188.9	139.8	188.9	223.0	234.3	200.3	192.7
87.5°	90.7	136.0	90.7	64.2	49.1	68.0	64.2	52.9	30.2	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)