

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: P479042

Luminaire Tested: **IFLD-L-SA7D-760-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479042  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-760-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

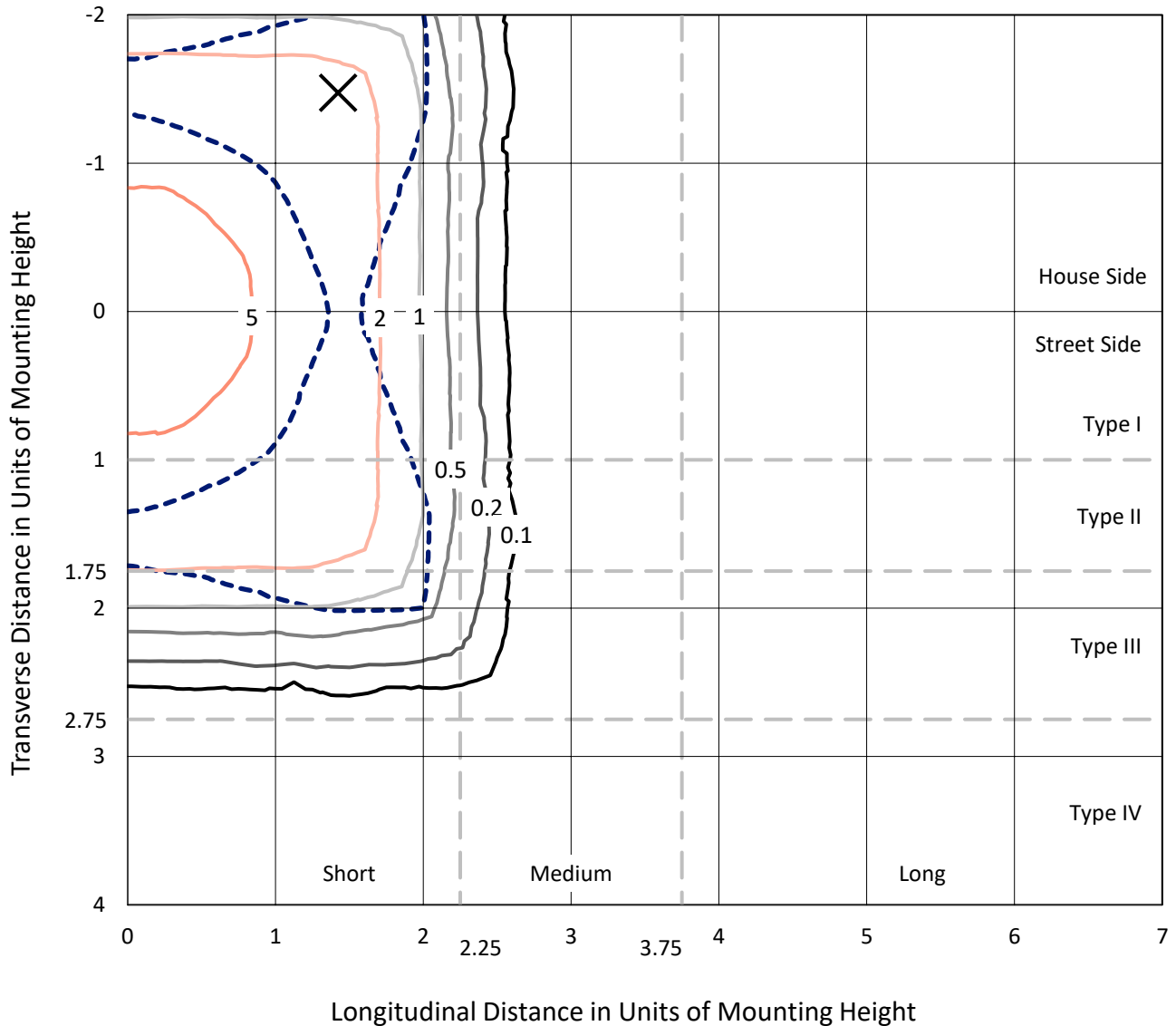
Lumens per Lamp: N/A  
Luminaire Lumens: 49765 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6  
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

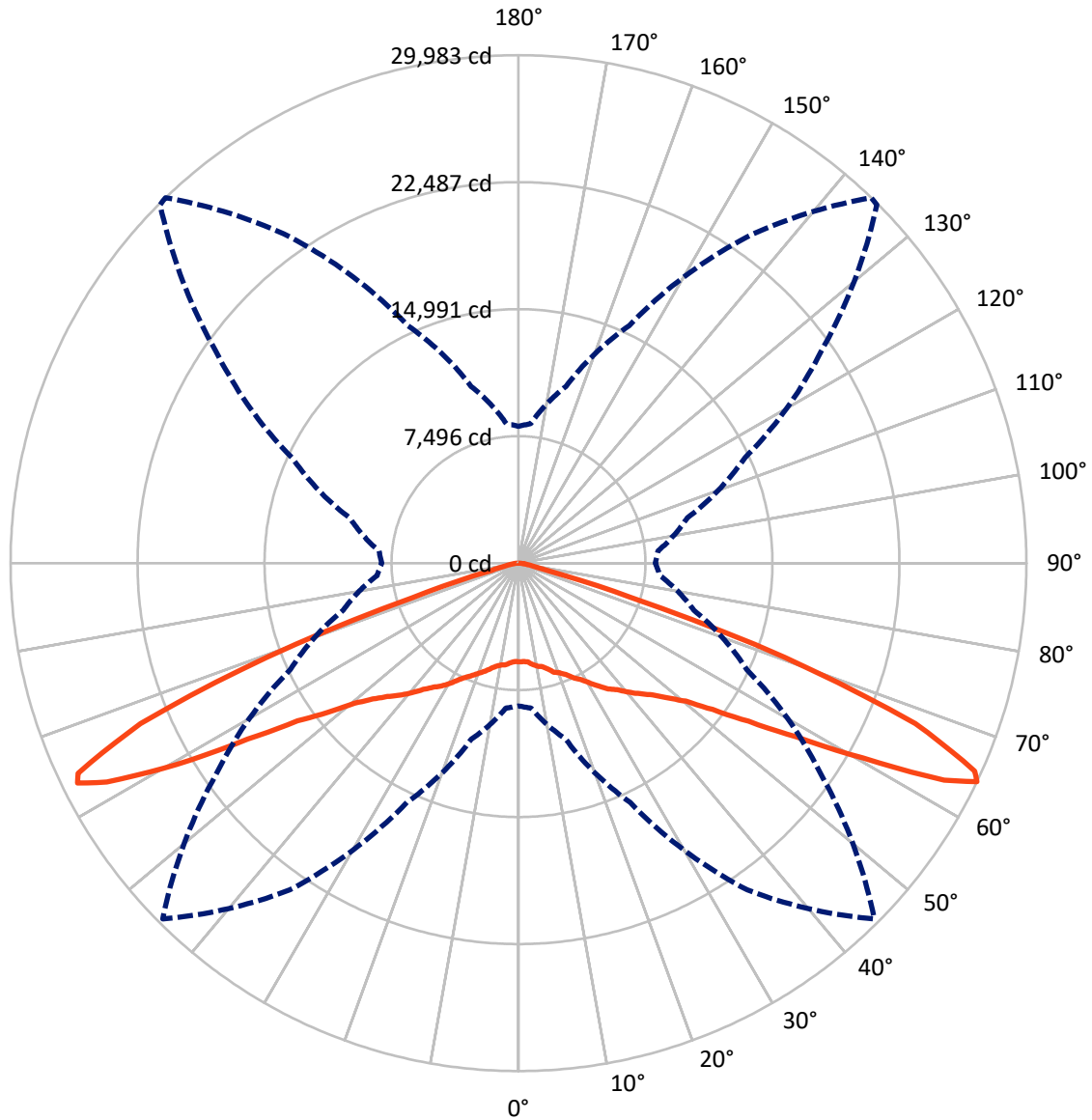
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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
<b>House Side</b>	Lumens	24906.2	0.0	24906.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24858.8	0.0	24858.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49765.0	0.0	49765.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.5	1.2
10°-20°	1845.2	3.7
20°-30°	3467.8	7.0
30°-40°	5719.0	11.5
40°-50°	8944.1	18.0
50°-60°	14451.5	29.0
60°-70°	13012.6	26.1
70°-80°	1541.4	3.1
80°-90°	211.0	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°	49765.0	100.0
0°-180°	49765.0	100.0

**Coefficient of Utilization**



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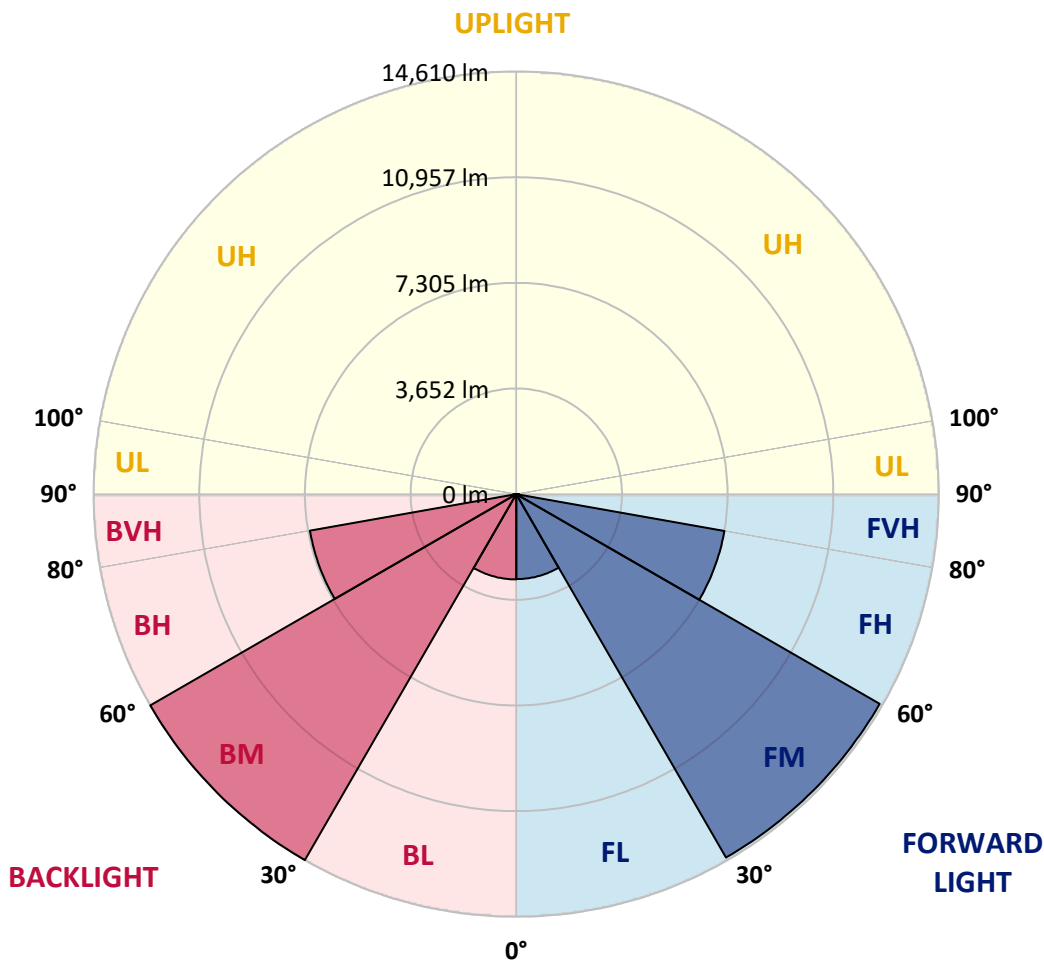
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2937.1	5.9			
FM (30°-60°)	14505.0	29.1			
FH (60°-80°)	7308.6	14.7			G3/7500
FVH (80°-90°)	108.2	0.2			G2/225
BL (0°-30°)	2948.4	5.9	B4/5000		
BM (30°-60°)	14609.6	29.4	B5		
BH (60°-80°)	7245.5	14.6	B5		G3/7500
BVH (80°-90°)	102.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5
2.5°	5758.0	5769.4	5872.1	5832.2	5866.4	5803.6	5849.3	5946.3	5832.2	5917.8	5946.3
5°	5820.8	5837.9	5837.9	5877.8	5900.7	5889.2	5917.8	5877.8	5986.3	5940.6	6009.1
7.5°	6049.0	6020.5	5974.8	6009.1	6014.8	6043.3	6071.8	6123.2	6106.1	6066.1	6134.6
10°	6089.0	6066.1	6134.6	6140.3	6111.8	6089.0	6117.5	6117.5	6168.9	6180.3	6180.3
12.5°	6157.4	6180.3	6174.6	6220.2	6225.9	6208.8	6254.5	6340.1	6317.2	6334.4	6294.4
15°	6420.0	6391.4	6385.7	6431.4	6505.6	6397.1	6477.0	6471.3	6448.5	6482.7	6391.4
17.5°	6648.2	6556.9	6596.9	6671.0	6642.5	6665.3	6768.1	6676.8	6699.6	6659.6	6631.1
20°	6848.0	6773.8	6779.5	6808.0	6808.0	6876.5	6916.4	6882.2	6859.4	6853.7	6865.1
22.5°	7070.5	6984.9	6990.6	7110.5	7150.4	7127.6	7099.0	7156.1	7167.5	7121.9	7173.2
25°	7236.0	7327.3	7355.8	7412.9	7327.3	7390.1	7367.3	7475.7	7544.2	7452.9	7515.6
27.5°	7669.7	7629.8	7703.9	7698.2	7766.7	7703.9	7743.9	7778.1	7806.7	7812.4	7783.8
30°	8057.8	8074.9	8000.7	8200.4	8040.6	8143.4	8211.8	8229.0	8263.2	8263.2	8177.6
32.5°	8468.6	8434.4	8554.2	8508.6	8480.0	8559.9	8485.8	8719.7	8582.8	8662.7	8565.6
35°	8930.9	8930.9	8976.5	9102.1	8930.9	8879.5	9016.5	9113.5	9113.5	8970.8	9005.1
37.5°	9450.2	9404.5	9461.6	9621.4	9490.1	9318.9	9570.0	9610.0	9581.4	9541.5	9473.0
40°	9815.4	9804.0	9918.1	10129.3	9940.9	9906.7	9952.4	10060.8	10095.0	10135.0	10043.7
42.5°	10431.7	10483.1	10814.1	10762.7	10608.6	10488.8	10477.4	10882.5	10785.5	10682.8	10631.4
45°	11344.8	11299.1	11470.3	11476.0	11276.3	11013.8	11070.9	11441.8	11607.3	11379.0	11464.6
47.5°	12069.5	12092.3	12212.2	12457.6	11995.3	11721.4	11932.6	12531.7	12480.4	12394.8	12474.7
50°	13039.6	13142.4	13519.0	13433.4	13022.5	12685.8	13148.1	13713.0	13775.8	13461.9	13404.9
52.5°	14380.7	14540.5	14745.9	14814.4	14420.6	14300.8	14329.3	15031.3	14877.2	14574.7	14380.7
55°	15556.3	15630.4	16007.1	16572.0	16543.5	15967.1	16298.1	16560.6	15932.9	15310.9	15362.2
57.5°	16058.4	16092.7	17142.7	18272.6	18946.0	19077.2	18700.6	17816.1	16320.9	15122.6	15048.4
60°	14808.7	15134.0	16400.8	18951.7	22027.6	23545.5	21040.3	17958.8	15413.6	13958.4	13850.0
62.5°	11835.5	11852.7	13735.8	17604.9	23945.0	27922.5	21936.3	16617.7	12994.0	11344.8	10911.1
64°	8428.7	8588.5	10751.3	15584.8	23545.5	29703.0	21827.8	14865.8	10711.3	8371.6	8069.2
65°	6049.0	6271.6	8360.2	13530.4	22609.7	29491.8	21502.6	13359.2	8662.7	6391.4	6083.3
67.5°	2225.6	2316.9	3281.3	6768.1	16235.3	25132.0	17040.0	7344.4	3806.3	2710.6	2436.7
70°	1032.9	1038.6	1215.5	2237.0	7099.0	16806.0	8131.9	2756.3	1432.4	1135.6	1055.7
72.5°	759.0	776.1	850.3	1032.9	2088.6	7116.2	2670.7	1129.9	838.9	741.9	724.7
75°	616.3	627.7	650.6	747.6	964.4	1906.0	1084.3	781.8	667.7	599.2	576.4
77.5°	473.6	473.6	525.0	570.7	639.1	890.2	719.0	622.0	542.1	473.6	456.5
80°	342.4	348.1	410.9	445.1	433.7	587.8	519.3	513.6	445.1	370.9	342.4
82.5°	199.7	216.9	296.7	319.6	308.2	348.1	376.6	399.5	348.1	256.8	234.0
85°	114.1	119.8	171.2	176.9	176.9	165.5	216.9	239.7	234.0	159.8	142.7
87.5°	34.2	34.2	45.7	45.7	51.4	57.1	85.6	102.7	114.1	79.9	74.2
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°	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5	5826.5
2.5°	5917.8	5832.2	5837.9	5860.7	5786.5	5815.1	5900.7	5837.9	5820.8	5786.5	5769.4
5°	5889.2	5980.5	5946.3	5957.7	5940.6	5860.7	5849.3	5900.7	5929.2	5877.8	5980.5
7.5°	6089.0	6049.0	6003.4	6020.5	5980.5	6049.0	6094.7	5992.0	6043.3	6014.8	5957.7
10°	6203.1	6128.9	6163.2	6151.7	6123.2	6191.7	6146.0	6134.6	6089.0	6026.2	6117.5
12.5°	6243.0	6328.6	6385.7	6288.7	6305.8	6271.6	6243.0	6243.0	6191.7	6174.6	6191.7
15°	6420.0	6494.1	6471.3	6545.5	6448.5	6482.7	6517.0	6431.4	6477.0	6351.5	6448.5
17.5°	6745.2	6682.5	6762.4	6665.3	6699.6	6768.1	6659.6	6659.6	6693.9	6625.4	6539.8
20°	6950.7	6922.1	6893.6	6899.3	6842.2	6905.0	6870.8	6853.7	6802.3	6825.1	6870.8
22.5°	7144.7	7104.7	7116.2	7133.3	7173.2	7144.7	7127.6	7144.7	7019.1	7133.3	6973.5
25°	7384.4	7492.8	7458.6	7532.7	7418.6	7492.8	7487.1	7378.7	7447.1	7401.5	7367.3
27.5°	7783.8	7726.8	7778.1	7686.8	7766.7	7772.4	7703.9	7886.6	7806.7	7795.3	7772.4
30°	8297.4	8257.5	8223.2	8171.9	8234.7	8183.3	8240.4	8257.5	8183.3	8126.2	8017.8
32.5°	8588.5	8696.9	8736.8	8611.3	8617.0	8645.5	8594.2	8542.8	8588.5	8605.6	8588.5
35°	8999.3	9102.1	9124.9	9027.9	8976.5	9119.2	9016.5	9187.7	9039.3	9045.0	8890.9
37.5°	9478.7	9507.2	9701.3	9592.8	9547.2	9478.7	9667.0	9644.2	9678.4	9404.5	9541.5
40°	10020.8	10123.6	10232.0	9958.1	9952.4	10015.1	10003.7	10135.0	10072.2	10032.2	9935.2
42.5°	10614.3	10831.2	10848.3	10665.7	10551.6	10540.1	10597.2	10888.2	10893.9	10631.4	10517.3
45°	11401.8	11641.5	11578.7	11224.9	11099.4	11082.3	11361.9	11487.4	11595.9	11493.1	11396.1
47.5°	12383.4	12543.2	12497.5	12172.2	11767.1	11881.2	12155.1	12548.9	12434.7	12297.8	12183.6
50°	13433.4	13621.7	13524.7	13199.4	12811.4	12811.4	13148.1	13650.2	13616.0	13347.8	13245.1
52.5°	14597.5	14871.5	15094.0	14631.8	14306.5	14357.9	14888.6	15071.2	14985.6	14797.3	14711.7
55°	15465.0	15990.0	16446.5	16469.3	16486.4	16480.7	16617.7	16800.3	16189.7	15887.2	15579.1
57.5°	15253.8	16246.8	17810.4	18871.8	19185.7	19351.2	19305.5	18460.9	17017.2	16024.2	16126.9
60°	13747.3	15367.9	17890.3	21297.1	23579.8	23351.5	22518.3	19180.0	16560.6	14882.9	14671.7
62.5°	10968.1	12919.8	16549.2	21981.9	28270.6	28202.1	23842.3	17519.3	13798.6	11675.8	11544.5
64°	8263.2	10317.6	14763.0	21805.0	29914.1	29982.6	23505.6	15476.4	10796.9	8263.2	8063.5
65°	6322.9	8229.0	13011.1	21439.8	29560.3	29600.3	22569.7	13364.9	8206.1	5866.4	5649.6
67.5°	2516.6	3503.9	7059.1	16258.2	25383.1	25274.6	16104.1	6465.6	3138.6	2043.0	2003.0
70°	1072.8	1335.4	2476.7	7703.9	16994.3	16680.5	6933.6	2100.0	1164.2	975.8	970.1
72.5°	736.2	816.0	1061.4	2379.7	7064.8	6899.3	1974.5	975.8	793.2	730.4	730.4
75°	593.5	650.6	770.4	998.7	1871.8	1803.3	930.2	719.0	633.4	587.8	582.1
77.5°	462.2	519.3	604.9	690.5	856.0	850.3	622.0	542.1	490.8	456.5	445.1
80°	365.2	422.3	479.4	490.8	559.2	547.8	422.3	428.0	399.5	331.0	325.3
82.5°	251.1	342.4	382.3	348.1	331.0	331.0	302.5	302.5	279.6	205.4	188.3
85°	154.1	228.3	239.7	205.4	154.1	154.1	165.5	159.8	148.4	108.4	102.7
87.5°	79.9	108.4	97.0	79.9	51.4	51.4	45.7	34.2	34.2	28.5	28.5
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)