

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: P481192

Luminaire Tested: **IFLD-L-SA8D-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481192  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-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**

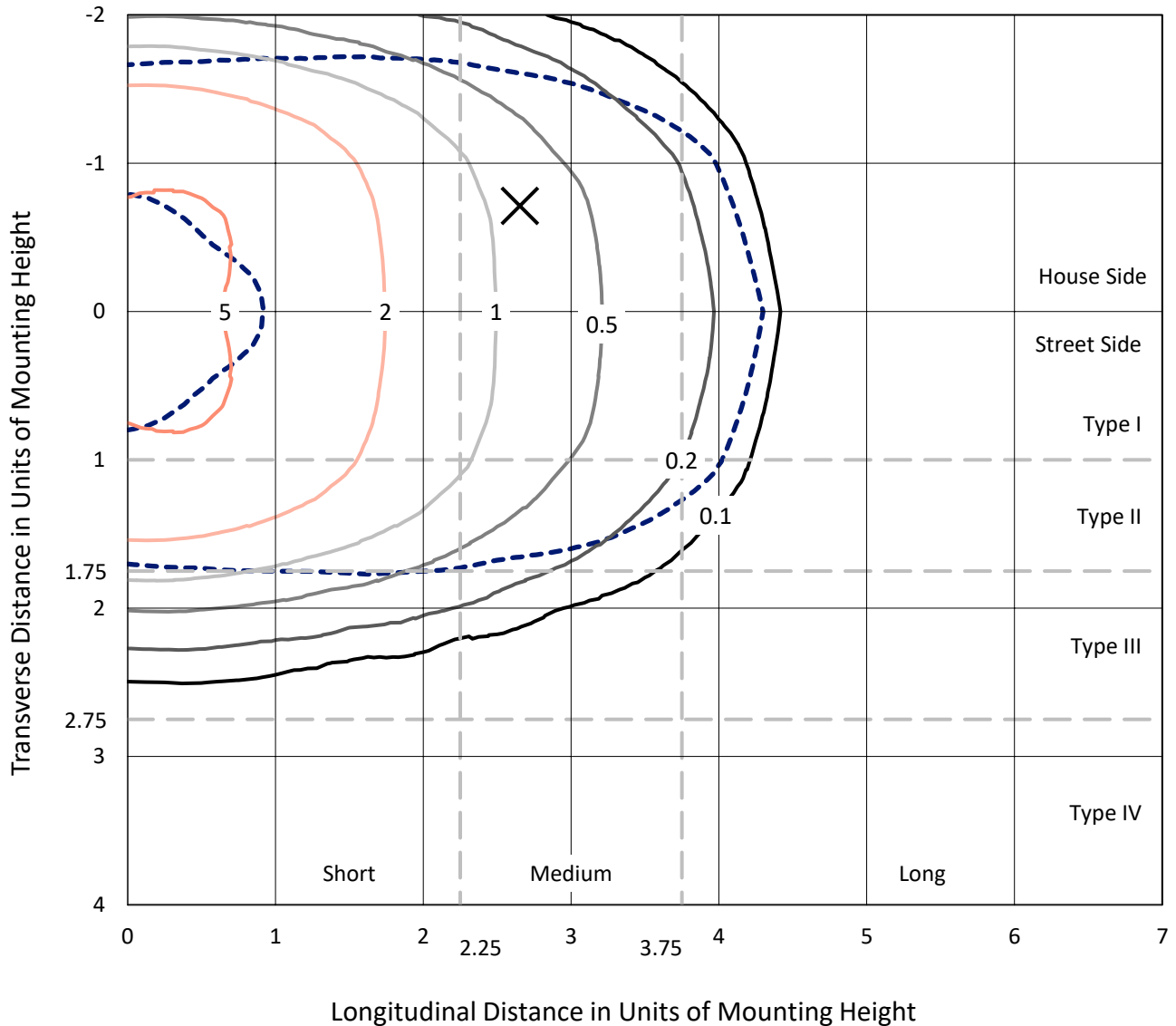
Lumens per Lamp: N/A  
Luminaire Lumens: 48021.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3  
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

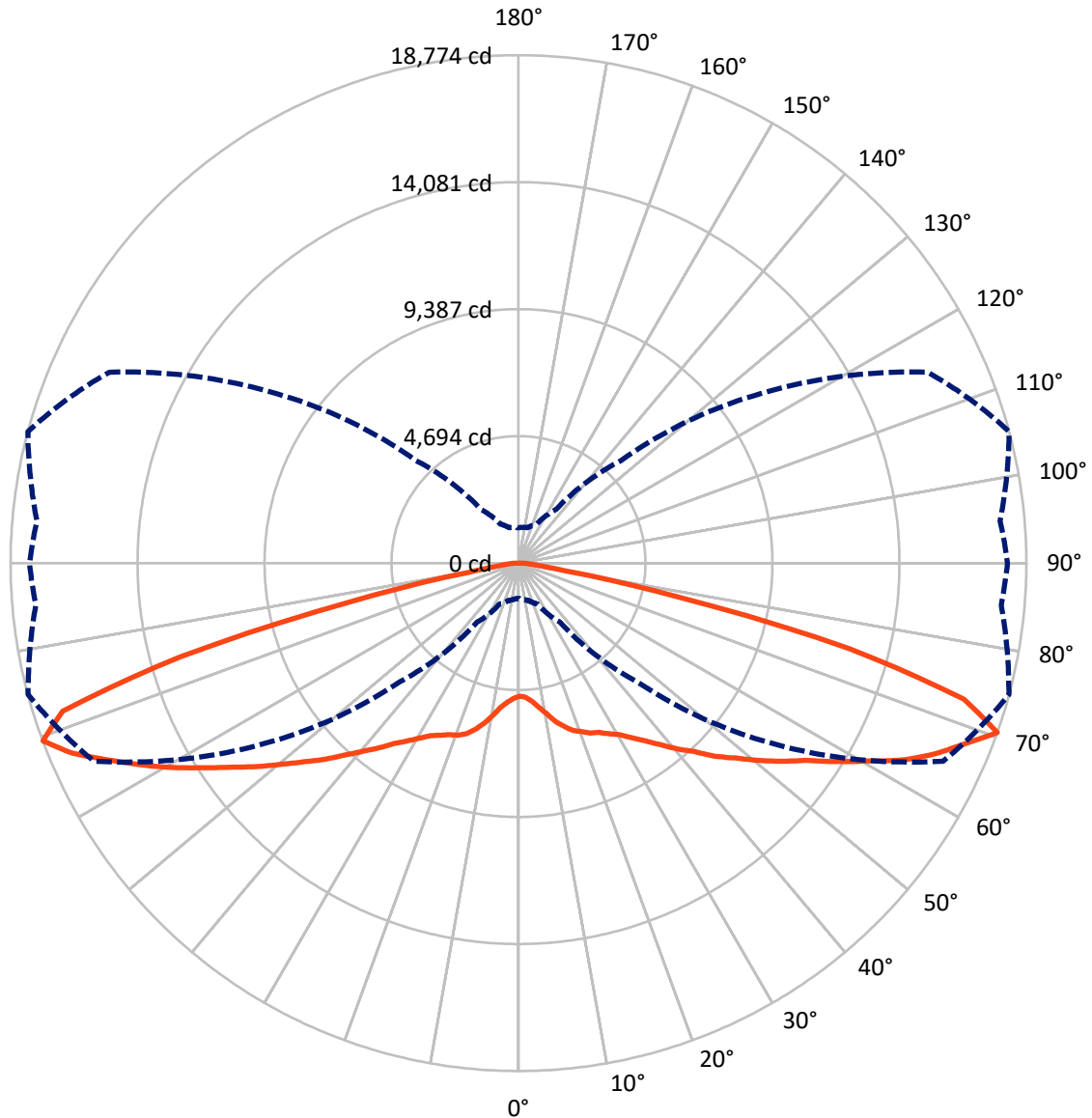
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481192  
CATALOG NUMBER: IFLD-L-SA8D-727-U-RW

### 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	23840.0	0.0	23840.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	24181.7	0.0	24181.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	48021.7	0.0	48021.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.4	1.0
10°-20°	1666.5	3.5
20°-30°	3226.9	6.7
30°-40°	5458.1	11.4
40°-50°	8707.3	18.1
50°-60°	11918.4	24.8
60°-70°	11233.9	23.4
70°-80°	4948.8	10.3
80°-90°	372.4	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°	48021.7	100.0
0°-180°	48021.7	100.0

**Coefficient of Utilization**

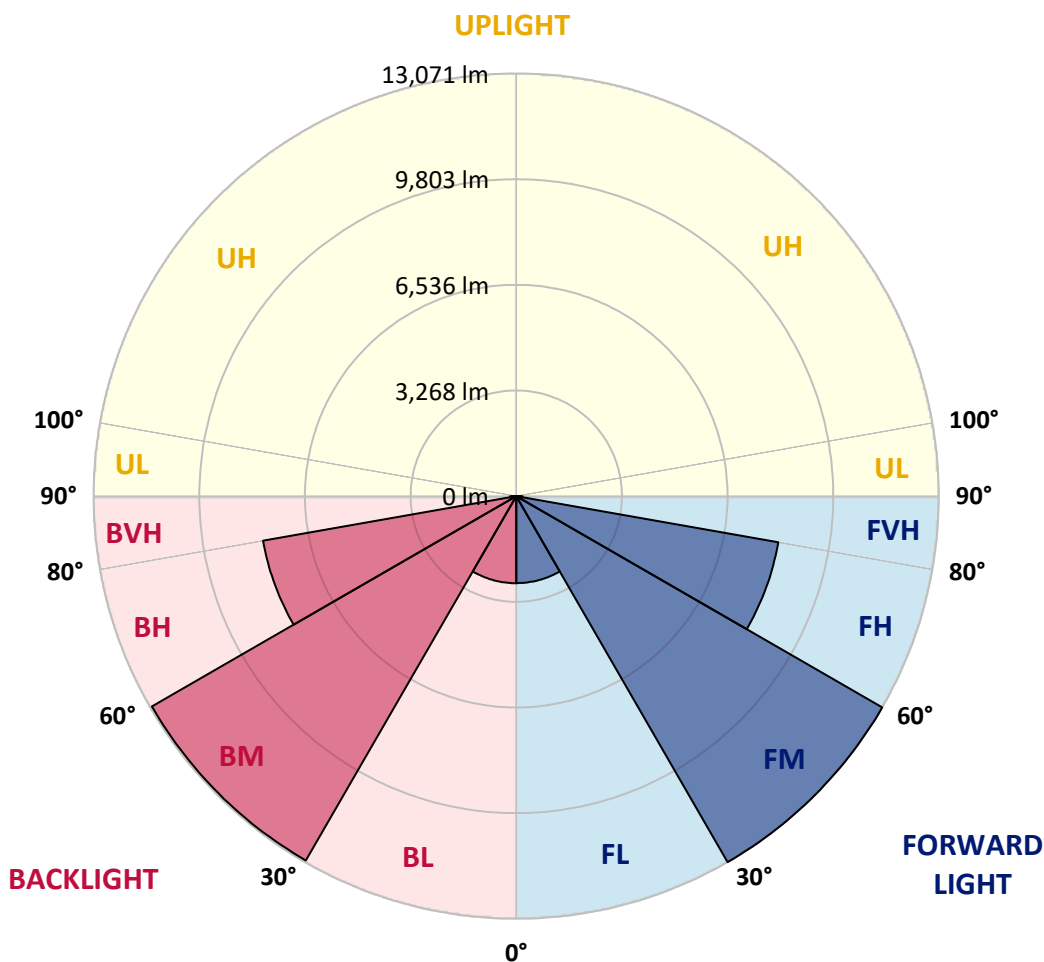


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 CATALOG NUMBER: IFLD-L-SA8D-727-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.0	5.6			
FM (30°-60°)	13071.1	27.2			
FH (60°-80°)	8230.4	17.1			G4/12000
FVH (80°-90°)	190.2	0.4			G2/225
BL (0°-30°)	2692.9	5.6	B4/5000		
BM (30°-60°)	13012.7	27.1	B5		
BH (60°-80°)	7952.3	16.6	B5		G5
BVH (80°-90°)	182.1	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





REPORT NUMBER: P481192

CATALOG NUMBER: IFLD-L-SA8D-727-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	4886.3	4886.3	4881.1	4907.0	4932.9	4943.3	4964.0	4969.1	5000.2	4974.3	5026.1
5°	4870.8	4865.6	4907.0	4969.1	4969.1	5036.4	5077.8	5134.8	5150.3	5181.4	5191.7
7.5°	4979.5	4969.1	4948.4	5015.7	5072.7	5176.2	5233.1	5331.5	5367.7	5409.1	5455.7
10°	5046.8	5046.8	5026.1	5145.1	5196.9	5336.6	5460.9	5559.2	5699.0	5745.6	5750.7
12.5°	5057.1	5072.7	5134.8	5290.1	5435.0	5616.2	5709.3	5895.7	6035.4	6123.4	6154.5
15°	5212.4	5181.4	5248.6	5460.9	5673.1	5833.6	5999.2	6133.8	6335.6	6449.5	6522.0
17.5°	5352.2	5321.1	5445.3	5699.0	5916.4	6164.8	6309.8	6454.7	6599.6	6703.2	6708.3
20°	5574.7	5600.6	5709.3	5983.7	6268.4	6485.8	6651.4	6677.3	6749.7	6899.9	6874.0
22.5°	5849.1	5828.4	6056.1	6356.4	6666.9	6848.1	6941.3	6874.0	6837.7	6998.2	7034.4
25°	6123.4	6185.5	6392.6	6672.1	7044.8	7288.1	7313.9	7127.6	6993.0	7050.0	7034.4
27.5°	6542.7	6553.0	6770.4	7101.7	7479.6	7691.8	7676.3	7412.3	7153.5	7158.7	7169.0
30°	7081.0	7029.3	7267.4	7567.6	7940.3	8131.8	8157.7	7779.8	7433.0	7329.5	7355.4
32.5°	7598.6	7660.7	7867.8	8209.4	8483.8	8592.5	8535.5	8199.1	7748.7	7609.0	7624.5
35°	8261.2	8250.8	8535.5	8825.4	9032.4	9053.1	9006.6	8514.8	8090.4	7909.2	7836.7
37.5°	8970.3	9063.5	9249.8	9487.9	9705.3	9715.7	9462.1	9068.7	8545.9	8245.7	8333.7
40°	9762.3	9865.8	10000.4	10347.2	10507.7	10342.0	10083.2	9550.1	9006.6	8742.6	8784.0
42.5°	10461.1	10507.7	10782.0	11190.9	11268.5	11196.1	10813.0	10166.0	9534.5	9244.7	9265.4
45°	11102.9	11165.0	11522.2	11889.7	12070.9	11946.6	11501.5	10885.5	10150.5	9902.0	9803.7
47.5°	11693.0	11817.2	12164.0	12541.9	12821.4	12831.8	12283.1	11537.7	10761.3	10435.2	10430.0
50°	12091.6	12272.7	12614.4	13044.0	13452.9	13613.4	13064.7	12262.4	11429.0	11082.2	11046.0
52.5°	12309.0	12495.3	12836.9	13504.7	13960.2	14208.6	13949.8	12940.5	12210.6	11848.3	11791.3
55°	12045.0	12169.2	12728.2	13665.1	14369.1	14778.0	14607.2	13877.3	12987.0	12692.0	12743.8
57.5°	10921.7	11180.6	11869.0	13038.8	14358.7	15362.9	15347.4	14762.5	13882.5	13603.0	13613.4
60°	8991.0	9208.4	10057.3	11693.0	13779.0	15601.0	16149.7	15621.7	14886.7	14560.6	14550.2
62.5°	6346.0	6620.3	7603.8	9389.6	12070.9	15269.7	17071.0	16703.5	15870.2	15632.1	15720.1
65°	3550.9	3716.5	4627.5	6242.5	9198.1	13447.7	17236.7	17826.8	16869.2	16506.8	16522.4
67.5°	1899.7	1961.8	2386.2	3276.5	5626.5	10367.9	15564.8	18473.8	17951.0	17324.7	17226.3
70°	1304.4	1325.1	1433.8	1677.1	2660.6	6201.1	11739.6	17319.5	18763.7	17909.6	18075.2
72.5°	1102.5	1092.2	1118.1	1143.9	1392.4	2774.4	6889.5	13328.7	17712.9	17392.0	17329.9
75°	957.6	952.4	962.8	936.9	967.9	1221.6	3048.8	8307.8	12966.3	14472.6	14705.5
77.5°	792.0	797.1	802.3	776.4	766.1	807.5	1226.8	3649.2	6382.2	7044.8	7598.6
80°	600.4	610.8	652.2	626.3	584.9	590.1	724.7	1221.6	1832.4	1661.6	1713.3
82.5°	408.9	414.1	502.1	471.0	440.0	398.6	465.9	631.5	714.3	543.5	476.2
85°	289.9	284.7	326.1	300.2	279.5	201.9	279.5	357.2	429.6	269.2	243.3
87.5°	67.3	67.3	134.6	108.7	103.5	82.8	108.7	139.8	186.3	119.1	108.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4	4917.4
2.5°	5010.5	4964.0	4964.0	4953.6	4912.2	4901.8	4865.6	4876.0	4850.1	4824.2
5°	5186.5	5124.4	5124.4	5036.4	4953.6	4943.3	4901.8	4901.8	4860.4	4870.8
7.5°	5429.8	5372.9	5279.7	5202.1	5088.2	5041.6	4964.0	4953.6	4943.3	4922.5
10°	5719.7	5647.2	5554.0	5393.6	5300.4	5212.4	5134.8	5026.1	5000.2	5005.4
12.5°	6113.1	5999.2	5797.3	5657.6	5538.5	5424.6	5310.8	5150.3	5114.1	5129.6
15°	6392.6	6247.7	6045.8	5994.0	5833.6	5693.8	5507.5	5326.3	5264.2	5248.6
17.5°	6620.3	6501.3	6382.2	6304.6	6175.2	6004.4	5745.6	5538.5	5398.8	5383.2
20°	6806.7	6651.4	6625.5	6672.1	6511.6	6397.8	6082.0	5828.4	5642.0	5564.4
22.5°	6920.6	6822.2	6894.7	6936.1	6925.7	6734.2	6408.1	6113.1	5880.1	5807.7
25°	7044.8	6930.9	7189.7	7329.5	7365.7	7050.0	6796.3	6408.1	6180.4	6133.8
27.5°	7106.9	7148.3	7448.5	7743.6	7717.7	7474.4	7132.8	6786.0	6604.8	6522.0
30°	7288.1	7355.4	7810.9	8142.1	8147.3	7909.2	7650.4	7257.0	7055.1	7018.9
32.5°	7614.2	7697.0	8183.5	8535.5	8597.6	8416.5	8157.7	7914.4	7707.3	7624.5
35°	7862.6	8074.8	8623.5	8944.4	9110.1	9001.4	8856.4	8602.8	8385.4	8312.9
37.5°	8219.8	8514.8	9042.8	9477.6	9663.9	9653.6	9544.9	9270.5	9089.4	9027.3
40°	8732.2	9027.3	9508.6	10083.2	10430.0	10414.5	10352.4	10140.1	9871.0	9839.9
42.5°	9275.7	9519.0	10145.3	10802.7	11299.6	11247.8	11082.2	10833.7	10647.4	10606.0
45°	9803.7	10181.6	10761.3	11605.0	11977.7	12107.1	11910.4	11485.9	11273.7	11247.8
47.5°	10466.2	10766.5	11491.1	12246.8	12800.7	12821.4	12485.0	12091.6	11703.3	11786.2
50°	11056.3	11454.9	12189.9	13018.1	13680.6	13442.5	13012.9	12521.2	12241.7	12133.0
52.5°	11687.8	12174.4	13028.5	13872.2	14239.7	14001.6	13302.8	12754.1	12329.7	12283.1
55°	12609.2	12862.8	13980.9	14627.9	14746.9	14244.9	13214.8	12438.4	11889.7	11755.1
57.5°	13546.1	13841.1	14819.4	15378.4	15254.2	14110.3	12645.4	11444.5	10725.0	10533.5
60°	14493.3	14855.6	15678.7	16191.1	15549.3	13183.7	11035.6	9487.9	8649.4	8478.6
62.5°	15549.3	16020.3	16755.3	16936.5	14674.5	11351.4	8758.1	6848.1	5999.2	5714.5
65°	16486.1	16967.5	17873.4	16781.2	12816.2	8468.2	5662.7	3913.2	3286.9	3059.1
67.5°	17257.4	17800.9	18246.0	14850.5	9384.4	4958.8	2950.4	2060.1	1827.2	1744.4
70°	17868.2	18774.0	16693.2	10916.6	5362.5	2417.3	1594.3	1356.2	1325.1	1304.4
72.5°	17335.0	17216.0	12464.2	6299.4	2350.0	1330.3	1154.3	1118.1	1112.9	1118.1
75°	14177.6	12645.4	7453.7	2738.2	1180.2	962.8	957.6	942.1	967.9	967.9
77.5°	6879.1	6014.7	3116.1	1175.0	776.4	755.7	781.6	781.6	781.6	781.6
80°	1594.3	1765.1	1112.9	714.3	564.2	564.2	621.1	626.3	600.4	590.1
82.5°	543.5	724.7	610.8	450.3	372.7	419.3	471.0	481.4	398.6	403.7
85°	269.2	424.4	331.3	258.8	191.5	258.8	305.4	320.9	274.3	264.0
87.5°	124.2	186.3	124.2	88.0	67.3	93.2	88.0	72.5	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)