

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: P478573

Luminaire Tested: **IFLD-L-SA7C-740-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478573  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-740-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

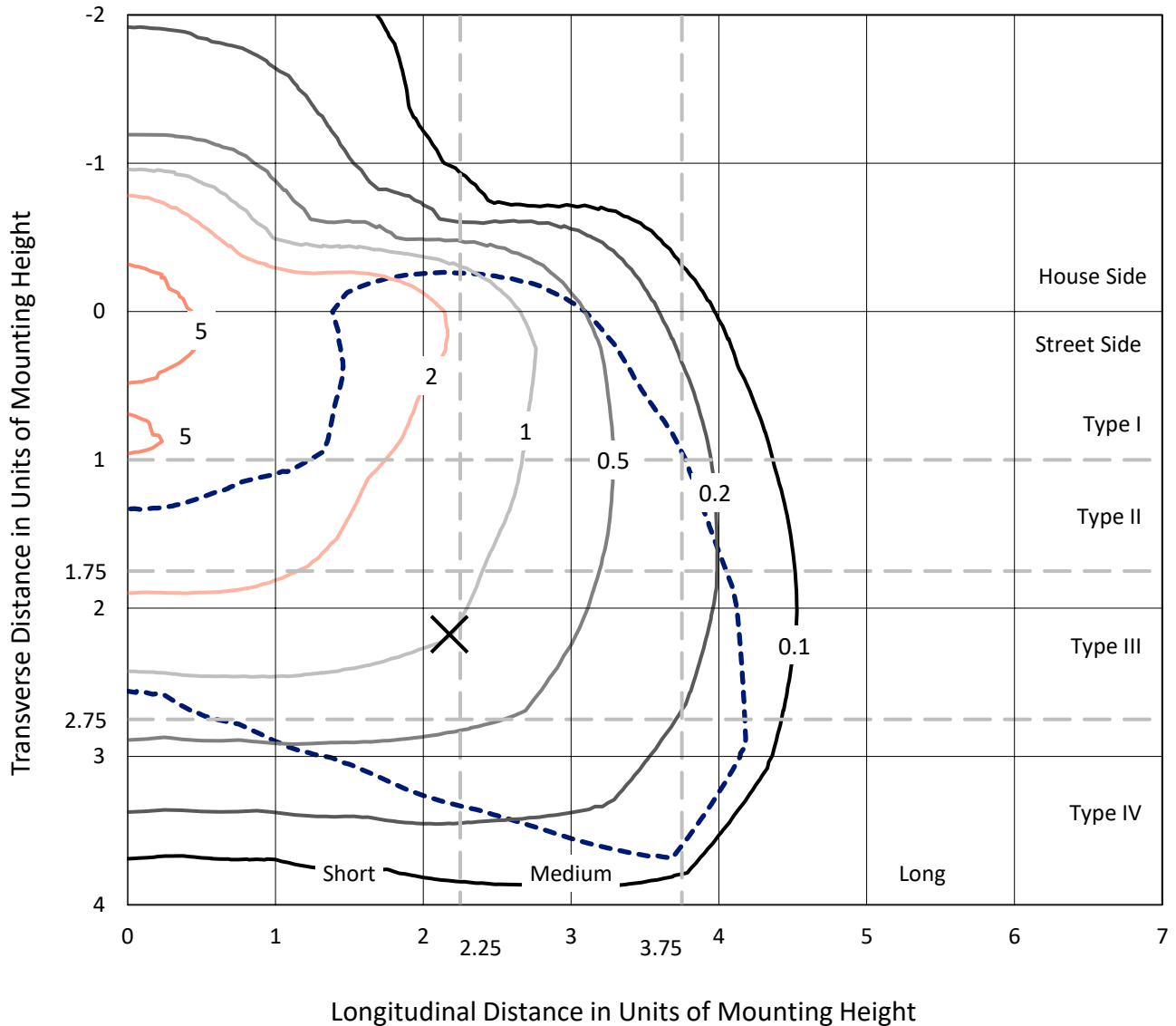
Lumens per Lamp: N/A  
Luminaire Lumens: 44808.7 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 369  
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

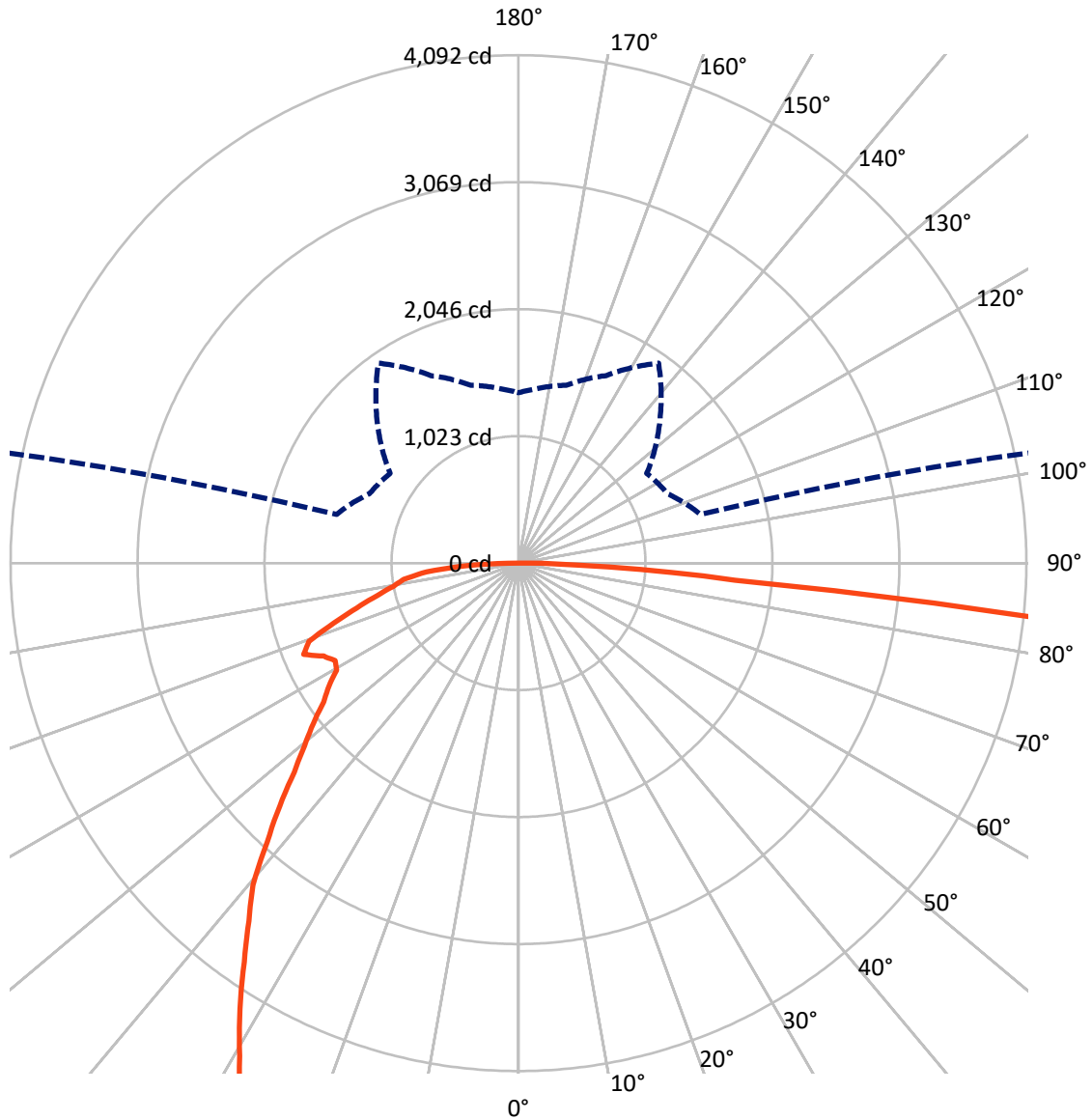
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9974.7	0.0	9974.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	34834.0	0.0	34834.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	44808.7	0.0	44808.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.2	1.1
10°-20°	1571.0	3.5
20°-30°	2653.0	5.9
30°-40°	3671.3	8.2
40°-50°	5251.5	11.7
50°-60°	8470.0	18.9
60°-70°	12492.0	27.9
70°-80°	9071.4	20.2
80°-90°	1156.4	2.6
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°	44808.7	100.0
0°-180°	44808.7	100.0

**Coefficient of Utilization**

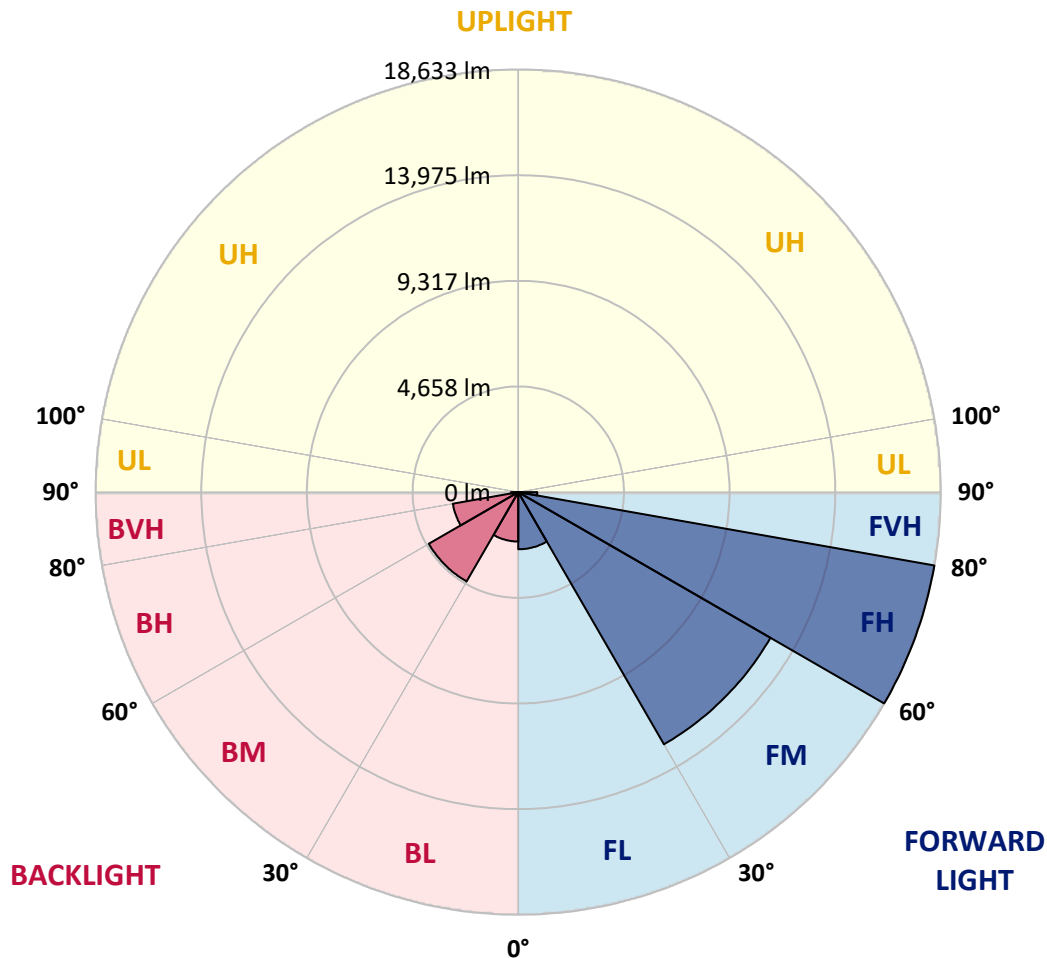


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2518.3	5.6			
FM (30°-60°)	12840.6	28.7			
FH (60°-80°)	18633.5	41.6			G5
FVH (80°-90°)	841.7	1.9			G5
BL (0°-30°)	2177.9	4.9	B3/2500		
BM (30°-60°)	4552.1	10.2	B3/5000		
BH (60°-80°)	2929.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	314.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5
2.5°	4860.9	4889.9	4860.9	4856.1	4807.8	4773.9	4802.9	4759.4	4711.1	4691.8	4648.3
5°	5305.5	5310.3	5257.1	5262.0	5160.5	5054.2	5073.5	4943.1	4802.9	4749.8	4662.8
7.5°	5759.7	5706.5	5629.2	5605.0	5445.6	5329.6	5315.1	5199.2	4981.7	4860.9	4740.1
10°	6054.4	6073.7	5948.1	5841.8	5706.5	5566.4	5561.5	5344.1	5218.5	5039.7	4885.1
12.5°	6315.3	6320.2	6213.9	6044.7	5875.6	5701.7	5725.8	5629.2	5416.6	5247.5	5092.8
15°	6518.3	6489.3	6373.3	6218.7	6039.9	5904.6	5890.1	5808.0	5629.2	5489.1	5233.0
17.5°	6576.2	6561.8	6445.8	6281.5	6107.6	6006.1	6044.7	5909.4	5837.0	5711.3	5464.9
20°	6465.1	6431.3	6412.0	6228.4	6102.7	6093.1	6059.2	6088.2	5967.4	5851.5	5672.7
22.5°	6262.2	6247.7	6238.0	6093.1	6035.1	6078.6	6136.5	6180.0	6160.7	6049.6	5846.6
25°	6054.4	6122.0	6059.2	5991.6	6073.7	6184.9	6170.4	6310.5	6310.5	6276.7	6107.6
27.5°	6199.4	6155.9	6107.6	6073.7	6102.7	6276.7	6267.0	6436.1	6498.9	6436.1	6242.8
30°	6561.8	6518.3	6378.1	6228.4	6189.7	6378.1	6426.5	6576.2	6605.2	6450.6	6286.3
32.5°	7243.1	7218.9	6996.6	6556.9	6320.2	6426.5	6450.6	6619.7	6595.6	6498.9	6431.3
35°	8252.9	8170.8	7861.5	7117.4	6595.6	6489.3	6426.5	6561.8	6653.6	6605.2	6542.4
37.5°	9359.4	9267.6	8885.9	7943.7	7093.3	6658.4	6610.1	6721.2	6827.5	6803.4	6672.9
40°	10417.6	10417.6	10074.6	8977.7	7832.6	7069.1	7078.8	6953.1	7049.8	7006.3	7030.5
42.5°	11461.3	11422.7	11282.5	10190.5	8625.0	7755.2	7600.6	7286.5	7460.5	7446.0	7479.8
45°	12519.5	12490.5	12451.9	11321.2	9760.5	8683.0	8600.8	8035.5	8194.9	8127.3	8272.3
47.5°	13365.1	13398.9	13398.9	12582.3	10973.3	9919.9	9799.1	8905.2	9209.6	9243.5	9277.3
50°	14085.1	14099.6	14085.1	13785.5	12326.2	11335.7	11089.3	10180.9	10485.3	10751.0	11060.3
52.5°	15080.4	15099.8	15032.1	14916.2	14162.4	12823.9	12548.5	11538.6	12162.0	12442.2	12997.9
55°	16307.7	16162.8	16037.2	16124.1	15926.0	14462.0	14176.9	12939.9	13877.3	14249.3	15360.7
57.5°	16534.8	16660.5	16979.4	17670.3	17955.4	16056.5	15892.2	14660.1	15814.9	16138.6	17994.1
60°	17336.9	17129.2	17911.9	19409.8	19728.7	18134.2	17965.1	16544.5	17742.8	18081.1	20424.5
62.5°	17863.6	17854.0	19013.6	20791.8	21516.6	20289.3	19946.2	18994.3	19825.4	20154.0	23072.4
65°	17709.0	17849.1	19907.5	21603.5	23009.6	22739.0	22540.9	21101.0	22197.9	22168.9	24797.4
67.5°	16298.1	16694.3	19342.2	22188.2	25232.3	25725.2	25662.4	24063.0	24125.8	23512.1	25565.7
70°	14341.2	14205.9	16950.4	21579.4	26343.7	29267.0	29252.5	26266.3	25860.5	23806.9	23362.4
72°	11016.8	10867.0	13123.5	18530.4	25759.0	30682.7	31117.6	27793.2	25841.1	22584.4	19298.7
72.5°	10002.1	9871.6	12118.5	17443.2	25111.5	31049.9	30847.0	27851.2	25638.2	22009.4	18027.9
75°	4604.8	4455.0	6054.4	10678.6	19588.6	27513.0	28203.9	26063.4	22391.1	17520.6	10799.4
77.5°	1372.3	1328.8	1947.3	4310.1	11384.0	20269.9	20535.7	19665.9	15631.3	9596.2	4005.7
80°	763.4	768.3	1005.0	1613.9	5005.9	11717.4	12674.1	12147.5	7668.3	3169.7	1333.6
82.5°	425.2	449.4	628.2	956.7	2300.0	5377.9	5788.6	5580.9	2773.5	1488.2	729.6
85°	222.3	231.9	328.6	512.2	1304.6	1700.8	1749.2	1874.8	1439.9	1014.7	391.4
87.5°	87.0	87.0	120.8	212.6	483.2	526.7	473.5	575.0	826.3	657.1	193.3
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°	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5	4614.5
2.5°	4687.0	4648.3	4643.5	4580.7	4600.0	4546.8	4551.7	4542.0	4546.8	4537.2	4513.0
5°	4662.8	4633.8	4551.7	4604.8	4556.5	4624.2	4677.3	4658.0	4672.5	4667.6	4672.5
7.5°	4696.6	4658.0	4648.3	4619.3	4662.8	4691.8	4735.3	4856.1	4846.4	4860.9	4889.9
10°	4798.1	4754.6	4725.6	4769.1	4745.0	4836.8	4885.1	4947.9	5059.0	5063.9	5005.9
12.5°	4996.2	4967.2	4909.2	4918.9	5001.0	5030.0	5059.0	5097.7	5170.2	5155.7	5208.8
15°	5223.3	5160.5	5126.7	5117.0	5136.3	5170.2	5165.3	5204.0	5242.6	5276.5	5262.0
17.5°	5387.6	5305.5	5315.1	5363.4	5358.6	5348.9	5286.1	5266.8	5286.1	5305.5	5295.8
20°	5556.7	5566.4	5493.9	5450.4	5431.1	5334.4	5286.1	5228.1	5170.2	5199.2	5242.6
22.5°	5769.3	5725.8	5619.5	5489.1	5392.4	5334.4	5184.7	5083.2	5083.2	5112.2	5097.7
25°	6010.9	5919.1	5735.5	5498.7	5377.9	5131.5	5025.2	5010.7	4972.1	5015.5	5034.9
27.5°	6199.4	6117.2	5866.0	5464.9	5131.5	4933.4	4870.6	4851.3	4914.1	4918.9	4996.2
30°	6276.7	6252.5	5885.3	5377.9	4880.2	4561.3	4522.7	4609.7	4677.3	4778.8	4783.6
32.5°	6378.1	6387.8	5914.3	5175.0	4551.7	4232.8	4174.8	4281.1	4474.4	4556.5	4619.3
35°	6547.3	6595.6	5890.1	4923.7	4203.8	3899.4	3889.7	3918.7	4107.1	4252.1	4334.2
37.5°	6842.0	6832.3	5885.3	4624.2	3928.4	3609.4	3532.1	3541.8	3667.4	3788.2	3773.7
40°	7238.2	7199.6	5870.8	4232.8	3570.8	3363.0	3232.6	3184.2	3174.6	3140.8	3150.4
42.5°	7779.4	7702.1	5866.0	3836.5	3247.1	3024.8	2933.0	2807.3	2715.5	2541.6	2551.3
45°	8533.2	8397.9	5740.3	3464.5	2928.1	2744.5	2604.4	2512.6	2314.5	2097.1	2097.1
47.5°	9697.7	9258.0	5745.2	3053.8	2618.9	2469.1	2372.5	2213.0	2000.4	1826.5	1807.1
50°	11413.0	10408.0	5580.9	2730.0	2367.6	2266.2	2164.7	1981.1	1778.1	1657.4	1671.8
52.5°	13626.0	12123.3	5576.0	2440.1	2169.5	2097.1	1985.9	1821.6	1671.8	1594.5	1565.5
55°	16264.3	14394.3	5750.0	2203.4	1966.6	1927.9	1879.6	1744.3	1599.4	1531.7	1526.9
57.5°	18965.3	16612.2	6030.2	2034.2	1792.6	1821.6	1787.8	1681.5	1565.5	1488.2	1478.6
60°	21366.8	18371.0	5464.9	1831.3	1638.0	1700.8	1749.2	1657.4	1594.5	1589.7	1555.9
62.5°	23178.7	19124.8	4155.5	1676.7	1555.9	1671.8	1802.3	1860.3	1831.3	1870.0	1874.8
65°	23840.7	18670.6	2860.5	1594.5	1493.1	1739.5	2029.4	2010.1	1841.0	1768.5	1807.1
67.5°	22913.0	16829.6	2121.2	1497.9	1449.6	1879.6	2159.9	1918.3	1662.2	1652.5	1623.5
70°	19704.6	14263.8	1729.8	1396.4	1377.1	1802.3	2101.9	1778.1	1565.5	1502.7	1473.7
72°	15698.9	11108.6	1517.2	1323.9	1261.1	1609.0	1966.6	1667.0	1483.4	1406.1	1372.3
72.5°	14331.5	10296.8	1488.2	1290.1	1237.0	1565.5	1898.9	1633.2	1464.1	1396.4	1343.3
75°	7861.5	5271.6	1309.5	1183.8	1043.7	1352.9	1758.8	1531.7	1381.9	1285.3	1275.6
77.5°	2923.3	2043.9	1130.7	1048.5	903.6	1169.3	1599.4	1454.4	1256.3	1135.5	1111.3
80°	1121.0	1077.5	922.9	884.2	758.6	1024.4	1473.7	1304.6	1067.9	947.1	908.4
82.5°	681.3	628.2	700.6	691.0	579.8	932.6	1386.8	1222.5	947.1	768.3	744.1
85°	372.1	372.1	488.0	468.7	405.9	744.1	1048.5	811.8	599.2	492.9	502.5
87.5°	164.3	193.3	260.9	246.4	222.3	420.4	512.2	430.0	299.6	202.9	217.4
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)