

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: P477042

Luminaire Tested: **IFLD-S-SA6C-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477042  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

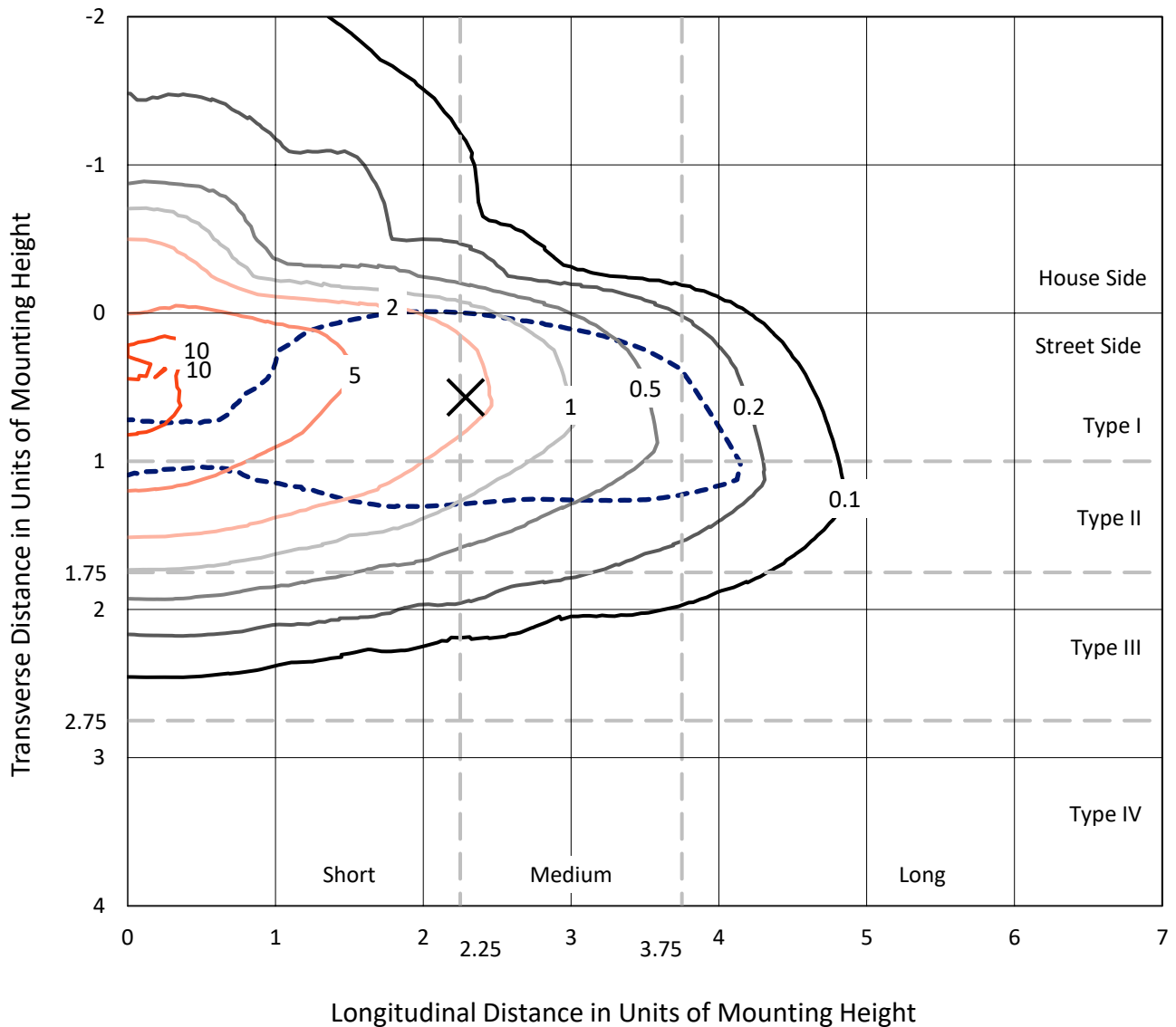
Lumens per Lamp: N/A  
Luminaire Lumens: 42742.2 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

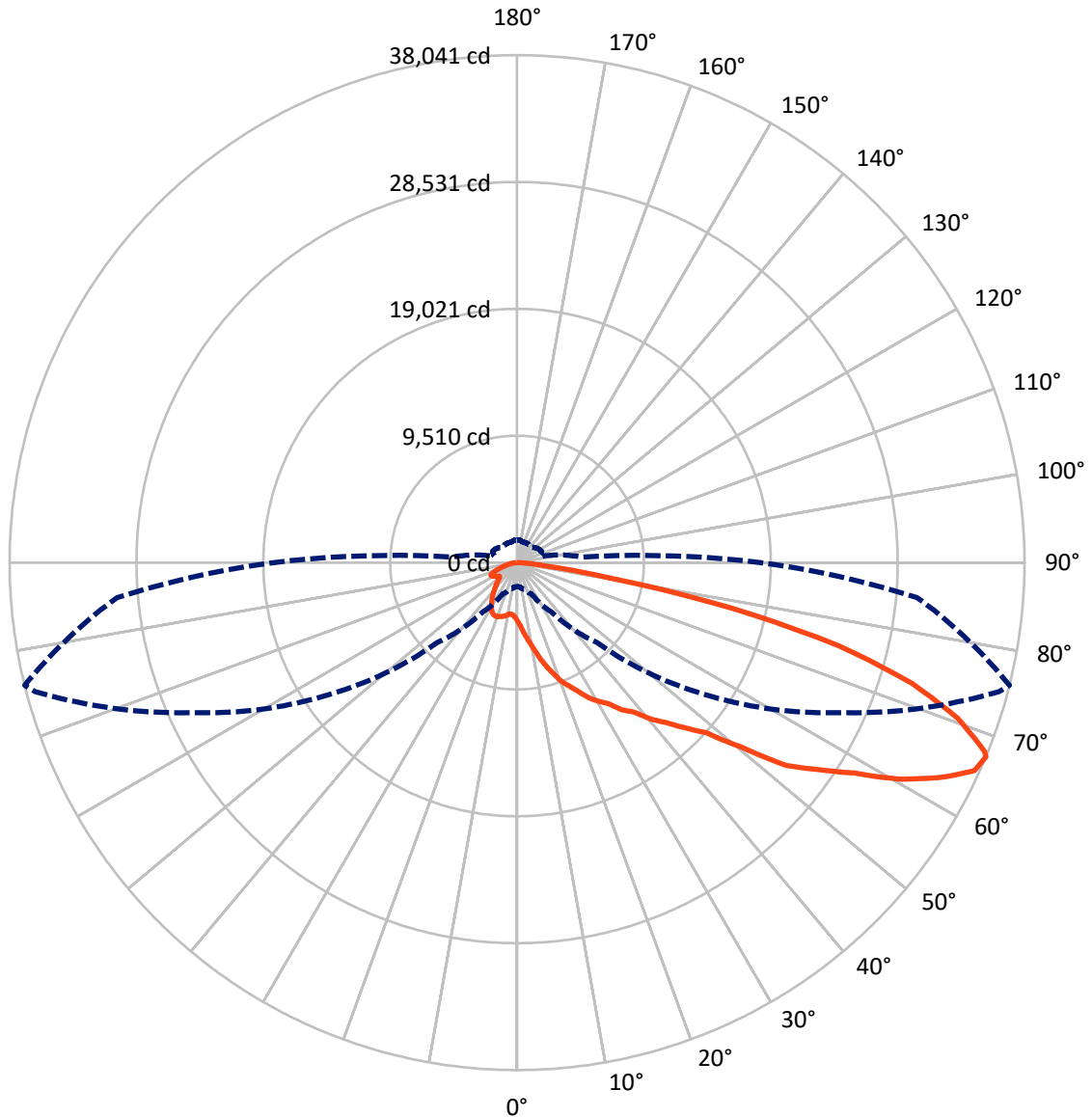
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6080.6	0.0	6080.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	36661.6	0.0	36661.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	42742.2	0.0	42742.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.7	1.2
10°-20°	1900.3	4.4
20°-30°	3532.8	8.3
30°-40°	5600.4	13.1
40°-50°	7745.8	18.1
50°-60°	9527.8	22.3
60°-70°	8866.1	20.7
70°-80°	4449.0	10.4
80°-90°	613.4	1.4
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°	42742.2	100.0
0°-180°	42742.2	100.0

**Coefficient of Utilization**



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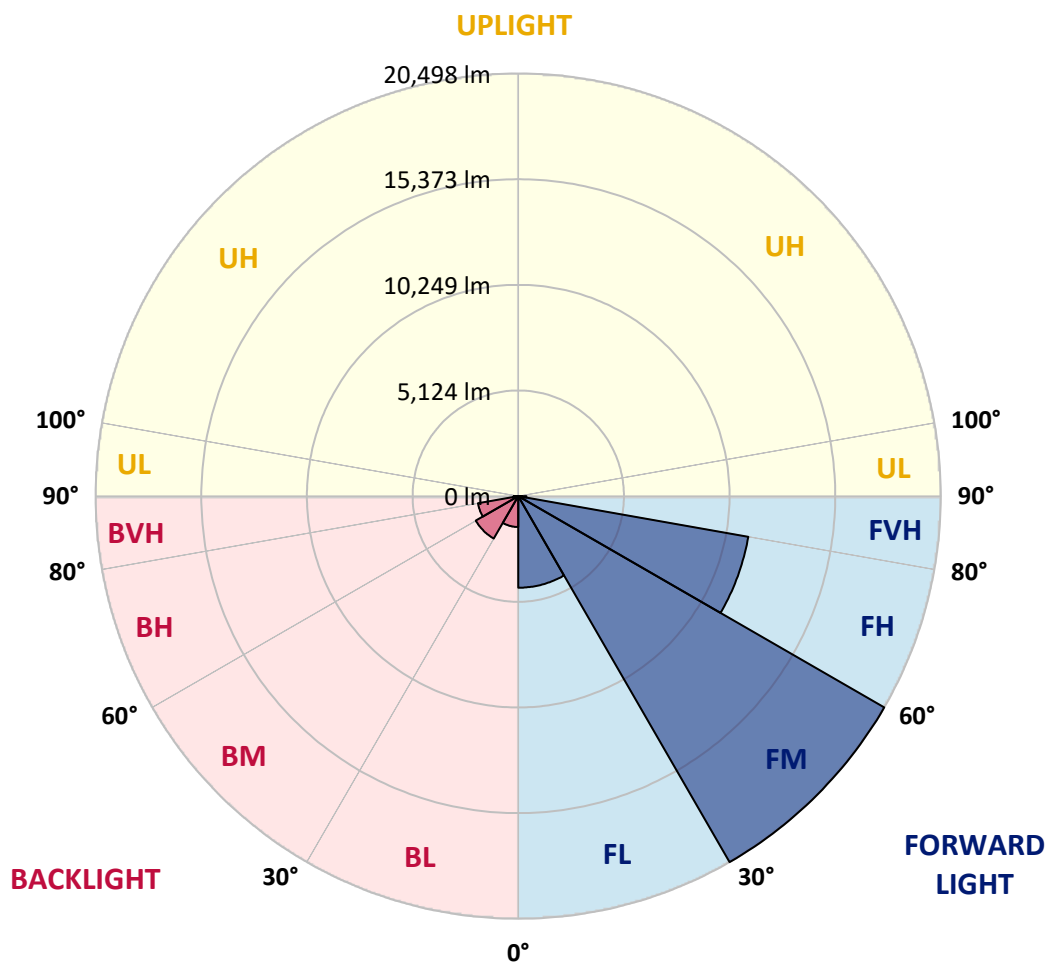
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4442.4	10.4			
FM (30°-60°)	20497.8	48.0			
FH (60°-80°)	11330.6	26.5			G4/12000
FVH (80°-90°)	390.8	0.9			G3/500
BL (0°-30°)	1497.4	3.5	B3/2500		
BM (30°-60°)	2376.2	5.6	B2/2500		
BH (60°-80°)	1984.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	222.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0
2.5°	6069.1	5996.0	5922.9	5767.1	5713.5	5567.4	5299.5	5002.4	4758.8	4724.7	4554.2
5°	7530.3	7423.2	7398.8	7311.1	7033.5	6751.0	6312.6	5835.3	5241.0	5284.9	4700.4
7.5°	8626.3	8562.9	8431.4	8348.6	8183.0	7808.0	7355.0	6721.8	5966.8	5820.7	5026.7
10°	9454.3	9366.6	9361.8	9288.7	9201.0	8816.2	8470.4	7618.0	6648.7	6449.0	5426.1
12.5°	9873.2	9858.6	10116.7	10116.7	10082.6	9921.9	9327.7	8548.3	7296.5	7228.3	5888.8
15°	10326.2	10204.4	10428.5	10598.9	10686.6	10769.4	10277.5	9454.3	8124.6	7993.0	6385.7
17.5°	10326.2	10316.4	10540.5	10823.0	11280.9	11388.0	11120.1	10287.2	8811.3	8713.9	6931.2
20°	10150.8	10292.1	10448.0	10827.9	11324.7	11758.2	11836.1	11139.6	9571.2	9493.3	7549.8
22.5°	10969.1	10832.7	10993.5	11139.6	11524.4	12182.0	12396.3	11889.7	10370.0	10072.9	8109.9
25°	12342.7	12250.2	12133.3	11918.9	12079.7	12367.1	12693.4	12445.0	11051.9	10720.7	8650.6
27.5°	13682.2	13687.1	13433.8	12966.2	12620.3	12678.8	13063.6	12932.1	11626.7	11480.6	9020.8
30°	15586.7	15469.8	15187.3	14554.1	13877.0	13321.7	13258.4	13385.1	12357.3	12074.8	9551.7
32.5°	17013.8	17038.2	16638.8	15727.9	14802.5	14349.5	13794.2	13847.8	12820.1	12610.6	9975.5
35°	18168.2	18139.0	17856.5	17101.5	16005.6	15460.0	14709.9	14403.1	13896.5	13565.3	10623.3
37.5°	19415.2	19176.5	18718.6	17866.2	17164.8	16409.9	15679.2	14987.6	14612.5	14213.1	11178.6
40°	19916.9	19916.9	19303.1	18913.5	18080.6	17510.7	17038.2	15757.2	15484.4	15406.5	11889.7
42.5°	19561.3	19780.5	19527.2	19084.0	18743.0	18022.1	17895.5	16556.0	16560.9	16405.0	12742.1
45°	19527.2	19225.2	19015.8	19127.8	18967.1	18928.1	19249.6	17661.7	17690.9	17671.4	13886.8
47.5°	18548.2	18411.8	18723.5	18908.6	19040.1	19644.1	20569.6	18981.7	19191.1	19045.0	15206.8
50°	17574.0	17549.6	17744.5	18416.6	18986.5	19980.2	21826.2	21017.7	21704.5	21694.7	17598.3
52.5°	14904.8	15162.9	15927.6	17349.9	18757.6	20438.0	22776.0	23618.7	24929.0	25284.5	19580.8
55°	12352.4	12216.1	13346.1	15411.3	17759.1	20618.3	23837.9	25182.2	27111.1	27369.2	21616.8
57.5°	9610.2	9863.5	10754.8	12737.2	15693.8	19726.9	24617.2	26726.3	29575.7	29775.4	23979.1
60°	7169.9	7204.0	8183.0	9780.6	12946.7	17715.2	24870.5	28309.3	32400.8	32970.7	26453.5
62.5°	4510.4	4715.0	5460.2	7033.5	9746.6	14899.9	23735.6	29268.9	35362.3	35513.3	28947.4
65°	2430.5	2562.1	3122.2	4111.0	6809.4	11271.1	20725.4	28694.1	36755.4	37651.6	30058.0
67°	1797.3	1821.7	2079.8	2625.4	4554.2	8485.0	17281.7	26614.3	37388.6	38041.3	30101.8
67.5°	1685.3	1719.4	1924.0	2357.5	4037.9	7812.8	16380.6	25873.9	37106.1	37807.5	29760.8
70°	1441.8	1451.5	1500.2	1622.0	2264.9	4700.4	11154.2	21202.8	34393.0	35065.2	27369.2
72.5°	1281.0	1290.8	1310.3	1334.6	1534.3	2717.9	6785.1	16317.3	29892.3	30963.9	23613.8
75°	1125.2	1159.3	1169.0	1149.5	1305.4	1768.1	3609.3	11992.0	24383.4	24904.6	18363.1
77.5°	954.7	969.3	988.8	1008.3	1164.1	1320.0	1734.0	8095.3	16736.2	16419.6	9931.6
80°	803.7	808.6	823.2	837.8	1008.3	1008.3	983.9	4374.0	7311.1	6989.7	3356.0
82.5°	574.8	608.9	643.0	681.9	837.8	677.0	643.0	1948.3	2313.6	2201.6	1134.9
85°	224.1	272.8	423.8	467.6	530.9	365.3	428.6	842.7	964.4	954.7	423.8
87.5°	39.0	43.8	116.9	180.2	194.8	126.6	204.6	302.0	360.4	389.7	155.9
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°	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0	4374.0
2.5°	4413.0	4262.0	4081.8	3901.5	3784.6	3599.6	3584.9	3472.9	3458.3	3419.3	3438.8
5°	4447.1	4266.9	3901.5	3614.2	3482.7	3375.5	3399.8	3351.1	3336.5	3312.2	3273.2
7.5°	4715.0	4359.4	3813.9	3565.5	3468.0	3419.3	3419.3	3360.9	3317.0	3346.3	3375.5
10°	4890.3	4403.2	3882.1	3633.6	3555.7	3448.6	3487.5	3414.5	3438.8	3380.4	3380.4
12.5°	5172.8	4651.7	4023.3	3735.9	3609.3	3511.9	3550.8	3468.0	3448.6	3453.4	3438.8
15°	5552.8	4817.3	4086.6	3794.4	3706.7	3584.9	3555.7	3482.7	3409.6	3385.2	3414.5
17.5°	5908.3	5021.8	4130.5	3828.5	3687.2	3550.8	3516.7	3424.2	3399.8	3326.8	3268.3
20°	6332.1	5265.4	4188.9	3857.7	3614.2	3477.8	3390.1	3297.6	3214.8	3170.9	3190.4
22.5°	6614.6	5392.0	4218.1	3799.3	3507.0	3380.4	3195.3	3132.0	3015.0	2966.3	2927.4
25°	7077.3	5547.9	4145.1	3638.5	3317.0	3112.5	2946.9	2859.2	2776.4	2713.1	2693.6
27.5°	7194.2	5664.8	3974.6	3365.8	3015.0	2800.7	2659.5	2552.3	2498.7	2401.3	2381.8
30°	7535.2	5547.9	3721.3	3034.5	2727.7	2508.5	2367.2	2289.3	2162.7	2138.3	2084.7
32.5°	7754.4	5582.0	3399.8	2713.1	2396.5	2201.6	2109.1	2031.1	1997.0	1880.1	1850.9
35°	8119.7	5465.1	3073.5	2415.9	2123.7	1972.7	1894.8	1870.4	1758.4	1704.8	1656.1
37.5°	8353.5	5396.9	2747.2	2079.8	1826.6	1763.2	1787.6	1685.3	1548.9	1446.6	1412.5
40°	8762.6	5372.5	2377.0	1802.2	1622.0	1607.4	1685.3	1490.5	1242.1	1154.4	1105.7
42.5°	9352.0	5206.9	2089.6	1553.8	1461.3	1524.6	1539.2	1242.1	1100.8	1027.7	993.7
45°	9917.0	5241.0	1807.1	1285.9	1271.3	1363.8	1329.7	1052.1	969.3	915.7	944.9
47.5°	11003.2	5411.5	1529.4	1071.6	1144.6	1232.3	1032.6	940.1	862.1	823.2	828.0
50°	12683.7	5577.1	1285.9	979.0	1081.3	1115.4	886.5	852.4	847.5	769.6	764.7
52.5°	13691.9	5513.8	1242.1	1095.9	1159.3	1115.4	964.4	940.1	901.1	867.0	828.0
55°	15294.4	5698.9	1334.6	1281.0	1315.1	1071.6	1081.3	1071.6	1042.4	954.7	979.0
57.5°	16570.6	5820.7	1456.4	1432.0	1412.5	1115.4	1130.0	1134.9	1115.4	1076.5	1110.6
60°	18324.1	6064.2	1583.0	1587.9	1592.8	1212.8	1237.2	1266.4	1261.5	1246.9	1256.7
62.5°	19400.6	5952.2	1724.3	1802.2	1777.9	1412.5	1407.7	1427.2	1427.2	1451.5	1466.1
65°	19239.8	5538.1	1797.3	1992.2	1865.5	1558.7	1558.7	1568.4	1573.3	1622.0	1626.9
67°	18275.4	4797.8	1758.4	2021.4	1865.5	1617.1	1617.1	1626.9	1592.8	1719.4	1680.4
67.5°	17827.3	4578.6	1724.3	1997.0	1850.9	1612.2	1612.2	1617.1	1587.9	1709.7	1670.7
70°	15503.9	3399.8	1485.6	1768.1	1714.5	1568.4	1568.4	1539.2	1514.8	1675.6	1641.5
72.5°	13234.1	2469.5	1193.4	1505.1	1548.9	1510.0	1519.7	1446.6	1378.4	1490.5	1461.3
75°	10136.2	1816.8	930.3	1159.3	1310.3	1412.5	1475.9	1290.8	1203.1	1232.3	1178.7
77.5°	5655.0	1183.6	735.5	857.3	998.5	1315.1	1417.4	1164.1	983.9	949.8	949.8
80°	1919.1	691.7	540.7	638.1	686.8	1164.1	1324.9	944.9	774.5	740.4	716.0
82.5°	725.8	423.8	370.2	438.4	438.4	920.6	1081.3	725.8	584.5	755.0	769.6
85°	331.2	253.3	243.5	253.3	253.3	565.0	764.7	472.5	526.1	453.0	399.4
87.5°	131.5	121.8	112.0	107.2	87.7	97.4	263.0	126.6	238.7	63.3	58.5
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)