

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: P478448

Luminaire Tested: **IFLD-S-SA6E-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478448  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

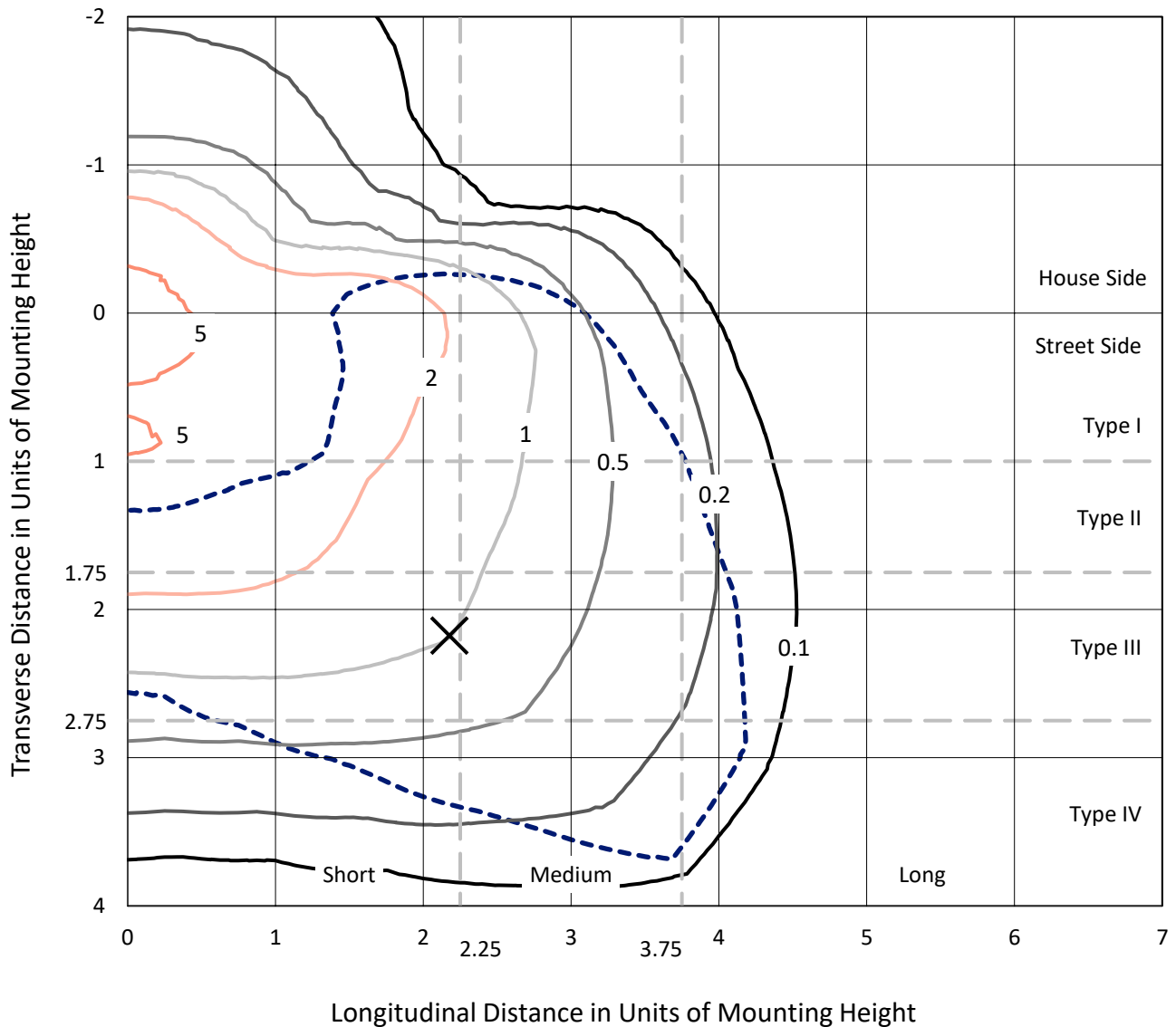
Lumens per Lamp: N/A  
Luminaire Lumens: 44728.1 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

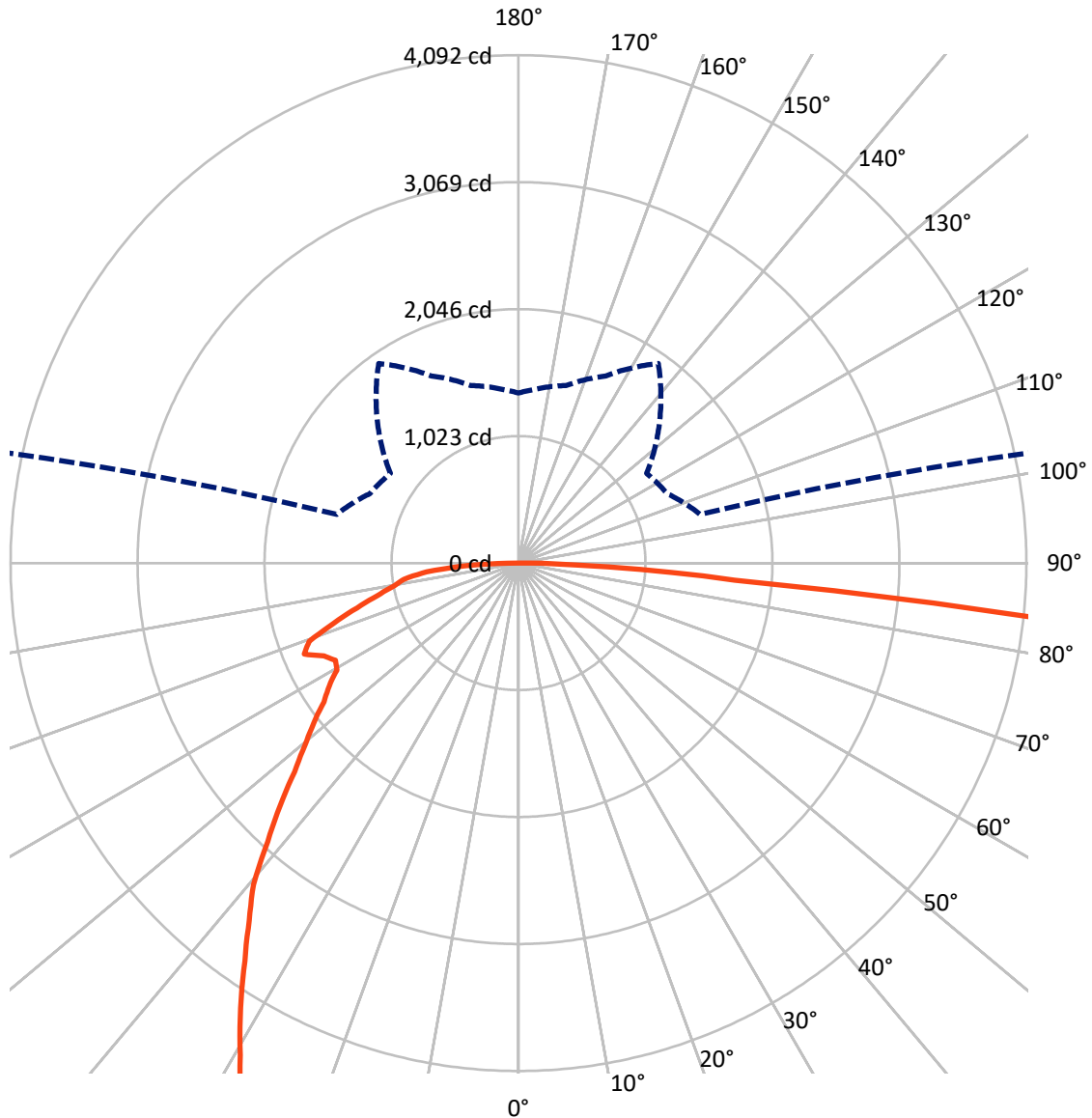
× Max cd  
 - - - 1/2 Max cd



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	9956.8	0.0	9956.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	34771.4	0.0	34771.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	44728.1	0.0	44728.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.3	1.1
10°-20°	1568.2	3.5
20°-30°	2648.2	5.9
30°-40°	3664.7	8.2
40°-50°	5242.0	11.7
50°-60°	8454.8	18.9
60°-70°	12469.6	27.9
70°-80°	9055.1	20.2
80°-90°	1154.3	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°	44728.1	100.0
0°-180°	44728.1	100.0

**Coefficient of Utilization**

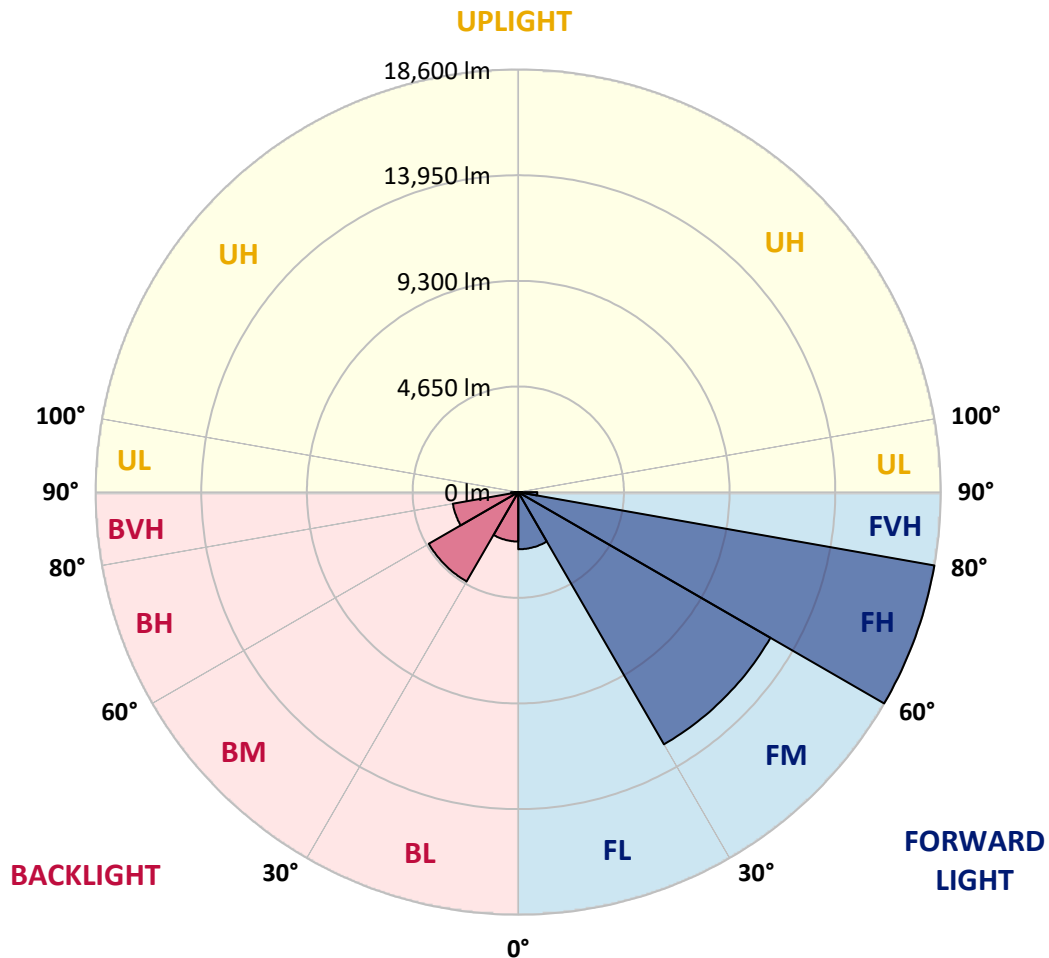


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.7	5.6			
FM (30°-60°)	12817.5	28.7			
FH (60°-80°)	18600.0	41.6			G5
FVH (80°-90°)	840.2	1.9			G5
BL (0°-30°)	2174.0	4.9	B3/2500		
BM (30°-60°)	4544.0	10.2	B3/5000		
BH (60°-80°)	2924.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	314.1	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°	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2
2.5°	4852.2	4881.1	4852.2	4847.4	4799.1	4765.4	4794.3	4750.9	4702.7	4683.4	4640.0
5°	5295.9	5300.7	5247.7	5252.5	5151.2	5045.1	5064.4	4934.2	4794.3	4741.2	4654.4
7.5°	5749.3	5696.2	5619.1	5595.0	5435.8	5320.0	5305.6	5189.8	4972.8	4852.2	4731.6
10°	6043.5	6062.8	5937.4	5831.3	5696.2	5556.4	5551.5	5334.5	5209.1	5030.6	4876.3
12.5°	6304.0	6308.8	6202.7	6033.9	5865.1	5691.4	5715.5	5619.1	5406.8	5238.0	5083.7
15°	6506.5	6477.6	6361.8	6207.5	6029.0	5894.0	5879.5	5797.5	5619.1	5479.2	5223.6
17.5°	6564.4	6550.0	6434.2	6270.2	6096.6	5995.3	6033.9	5898.8	5826.5	5701.1	5455.1
20°	6453.5	6419.7	6400.4	6217.1	6091.7	6082.1	6048.3	6077.3	5956.7	5840.9	5662.5
22.5°	6250.9	6236.4	6226.8	6082.1	6024.2	6067.6	6125.5	6168.9	6149.6	6038.7	5836.1
25°	6043.5	6111.0	6048.3	5980.8	6062.8	6173.7	6159.3	6299.1	6299.1	6265.4	6096.6
27.5°	6188.2	6144.8	6096.6	6062.8	6091.7	6265.4	6255.7	6424.5	6487.2	6424.5	6231.6
30°	6550.0	6506.5	6366.7	6217.1	6178.6	6366.7	6414.9	6564.4	6593.4	6439.0	6275.0
32.5°	7230.0	7205.9	6984.0	6545.1	6308.8	6414.9	6439.0	6607.8	6583.7	6487.2	6419.7
35°	8238.1	8156.1	7847.4	7104.6	6583.7	6477.6	6414.9	6550.0	6641.6	6593.4	6530.7
37.5°	9342.6	9251.0	8869.9	7929.4	7080.5	6646.4	6598.2	6709.1	6815.2	6791.1	6660.9
40°	10398.9	10398.9	10056.4	8961.6	7818.5	7056.4	7066.0	6940.6	7037.1	6993.7	7017.8
42.5°	11440.7	11402.1	11262.3	10172.2	8609.5	7741.3	7586.9	7273.4	7447.1	7432.6	7466.4
45°	12497.0	12468.1	12429.5	11300.8	9742.9	8667.4	8585.4	8021.0	8180.2	8112.7	8257.4
47.5°	13341.1	13374.8	13374.8	12559.7	10953.6	9902.1	9781.5	8889.2	9193.1	9226.8	9260.6
50°	14059.7	14074.2	14059.7	13760.7	12304.1	11315.3	11069.3	10162.6	10466.4	10731.7	11040.4
52.5°	15053.3	15072.6	15005.1	14889.3	14136.9	12800.9	12525.9	11517.9	12140.1	12419.8	12974.5
55°	16278.4	16133.7	16008.3	16095.1	15897.4	14435.9	14151.4	12916.6	13852.3	14223.7	15333.1
57.5°	16505.1	16630.5	16948.8	17638.6	17923.1	16027.6	15863.6	14633.7	15786.4	16109.6	17961.7
60°	17305.8	17098.4	17879.7	19374.9	19693.3	18101.6	17932.8	16514.8	17710.9	18048.5	20387.8
62.5°	17831.5	17821.8	18979.4	20754.4	21477.9	20252.8	19910.3	18960.1	19789.7	20117.7	23030.9
65°	17677.2	17817.0	19871.7	21564.7	22968.2	22698.1	22500.4	21063.1	22157.9	22129.0	24752.8
67.5°	16268.8	16664.3	19307.4	22148.3	25186.9	25678.9	25616.2	24019.7	24082.4	23469.9	25519.7
70°	14315.4	14180.3	16919.9	21540.6	26296.3	29214.3	29199.9	26219.1	25813.9	23764.1	23320.3
72°	10997.0	10847.5	13099.9	18497.1	25712.7	30627.5	31061.6	27743.2	25794.7	22543.8	19264.0
72.5°	9984.1	9853.9	12096.7	17411.9	25066.3	30994.1	30791.5	27801.1	25592.1	21969.8	17995.5
75°	4596.5	4447.0	6043.5	10659.3	19553.4	27463.5	28153.2	26016.5	22350.9	17489.0	10779.9
77.5°	1369.8	1326.4	1943.8	4302.3	11363.5	20233.5	20498.7	19630.6	15603.2	9578.9	3998.5
80°	762.1	766.9	1003.2	1611.0	4996.9	11696.3	12651.3	12125.6	7654.5	3164.0	1331.2
82.5°	424.4	448.6	627.0	955.0	2295.9	5368.3	5778.2	5570.8	2768.5	1485.6	728.3
85°	221.9	231.5	328.0	511.3	1302.3	1697.8	1746.0	1871.4	1437.3	1012.9	390.7
87.5°	86.8	86.8	120.6	212.2	482.3	525.7	472.7	574.0	824.8	656.0	192.9
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°	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2	4606.2
2.5°	4678.5	4640.0	4635.1	4572.4	4591.7	4538.7	4543.5	4533.8	4538.7	4529.0	4504.9
5°	4654.4	4625.5	4543.5	4596.5	4548.3	4615.8	4668.9	4649.6	4664.1	4659.2	4664.1
7.5°	4688.2	4649.6	4640.0	4611.0	4654.4	4683.4	4726.8	4847.4	4837.7	4852.2	4881.1
10°	4789.5	4746.1	4717.1	4760.5	4736.4	4828.1	4876.3	4939.0	5049.9	5054.7	4996.9
12.5°	4987.2	4958.3	4900.4	4910.1	4992.0	5021.0	5049.9	5088.5	5160.9	5146.4	5199.4
15°	5213.9	5151.2	5117.5	5107.8	5127.1	5160.9	5156.0	5194.6	5233.2	5267.0	5252.5
17.5°	5377.9	5295.9	5305.6	5353.8	5349.0	5339.3	5276.6	5257.3	5276.6	5295.9	5286.3
20°	5546.7	5556.4	5484.0	5440.6	5421.3	5324.9	5276.6	5218.7	5160.9	5189.8	5233.2
22.5°	5758.9	5715.5	5609.4	5479.2	5382.7	5324.9	5175.3	5074.0	5074.0	5103.0	5088.5
25°	6000.1	5908.5	5725.2	5488.8	5368.3	5122.3	5016.2	5001.7	4963.1	5006.5	5025.8
27.5°	6188.2	6106.2	5855.4	5455.1	5122.3	4924.5	4861.8	4842.5	4905.2	4910.1	4987.2
30°	6265.4	6241.3	5874.7	5368.3	4871.5	4553.1	4514.5	4601.4	4668.9	4770.2	4775.0
32.5°	6366.7	6376.3	5903.6	5165.7	4543.5	4225.2	4167.3	4273.4	4466.3	4548.3	4611.0
35°	6535.5	6583.7	5879.5	4914.9	4196.2	3892.3	3882.7	3911.6	4099.7	4244.4	4326.4
37.5°	6829.7	6820.1	5874.7	4615.8	3921.3	3603.0	3525.8	3535.4	3660.8	3781.4	3766.9
40°	7225.2	7186.6	5860.2	4225.2	3564.4	3357.0	3226.7	3178.5	3168.9	3135.1	3144.7
42.5°	7765.4	7688.2	5855.4	3829.6	3241.2	3019.3	2927.7	2802.3	2710.7	2537.0	2546.7
45°	8517.8	8382.8	5730.0	3458.3	2922.9	2739.6	2599.7	2508.1	2310.3	2093.3	2093.3
47.5°	9680.2	9241.3	5734.8	3048.3	2614.2	2464.7	2368.2	2209.0	1996.8	1823.2	1803.9
50°	11392.5	10389.2	5570.8	2725.1	2363.4	2262.1	2160.8	1977.5	1775.0	1654.4	1668.8
52.5°	13601.5	12101.5	5566.0	2435.7	2165.6	2093.3	1982.3	1818.4	1668.8	1591.7	1562.7
55°	16235.0	14368.4	5739.6	2199.4	1963.1	1924.5	1876.2	1741.2	1596.5	1529.0	1524.1
57.5°	18931.2	16582.3	6019.4	2030.6	1789.4	1818.4	1784.6	1678.5	1562.7	1485.6	1475.9
60°	21328.3	18337.9	5455.1	1828.0	1635.1	1697.8	1746.0	1654.4	1591.7	1586.8	1553.1
62.5°	23137.1	19090.4	4148.0	1673.7	1553.1	1668.8	1799.1	1856.9	1828.0	1866.6	1871.4
65°	23797.8	18637.0	2855.4	1591.7	1490.4	1736.4	2025.8	2006.5	1837.7	1765.3	1803.9
67.5°	22871.8	16799.3	2117.4	1495.2	1447.0	1876.2	2156.0	1914.8	1659.2	1649.5	1620.6
70°	19669.1	14238.2	1726.7	1393.9	1374.6	1799.1	2098.1	1775.0	1562.7	1500.0	1471.1
72°	15670.7	11088.6	1514.5	1321.6	1258.9	1606.1	1963.1	1664.0	1480.7	1403.6	1369.8
72.5°	14305.7	10278.3	1485.6	1287.8	1234.7	1562.7	1895.5	1630.3	1461.4	1393.9	1340.9
75°	7847.4	5262.1	1307.1	1181.7	1041.8	1350.5	1755.7	1529.0	1379.4	1283.0	1273.3
77.5°	2918.1	2040.2	1128.6	1046.6	901.9	1167.2	1596.5	1451.8	1254.0	1133.5	1109.3
80°	1119.0	1075.6	921.2	882.7	757.2	1022.5	1471.1	1302.3	1065.9	945.4	906.8
82.5°	680.1	627.0	699.4	689.7	578.8	930.9	1384.3	1220.3	945.4	766.9	742.8
85°	371.4	371.4	487.1	467.9	405.2	742.8	1046.6	810.3	598.1	492.0	501.6
87.5°	164.0	192.9	260.5	246.0	221.9	419.6	511.3	429.3	299.0	202.6	217.0
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)