

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: P480406

Luminaire Tested: **IFLD-L-SA7C-727-U-SL3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P480406  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

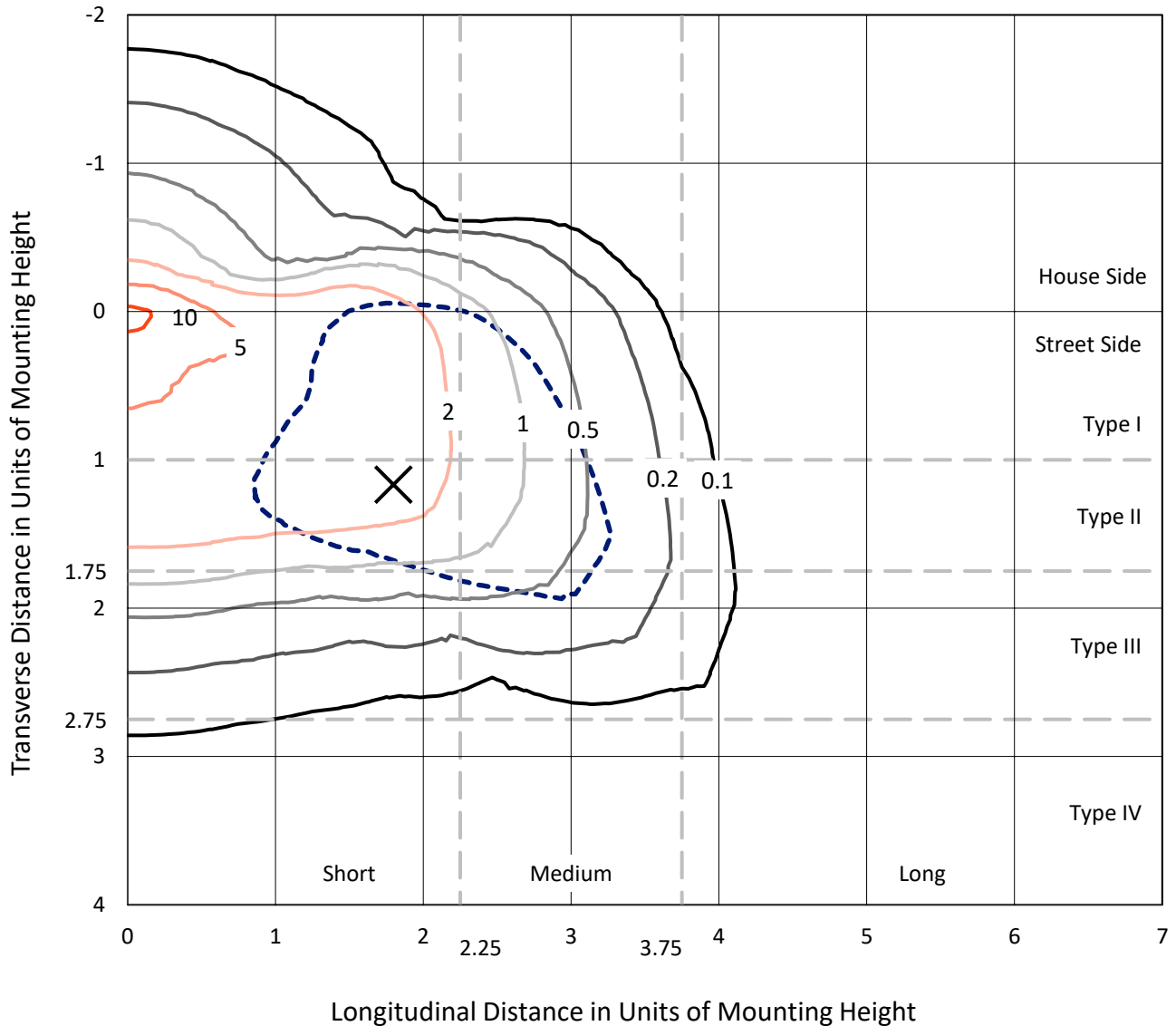
Lumens per Lamp: N/A  
Luminaire Lumens: 36581.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

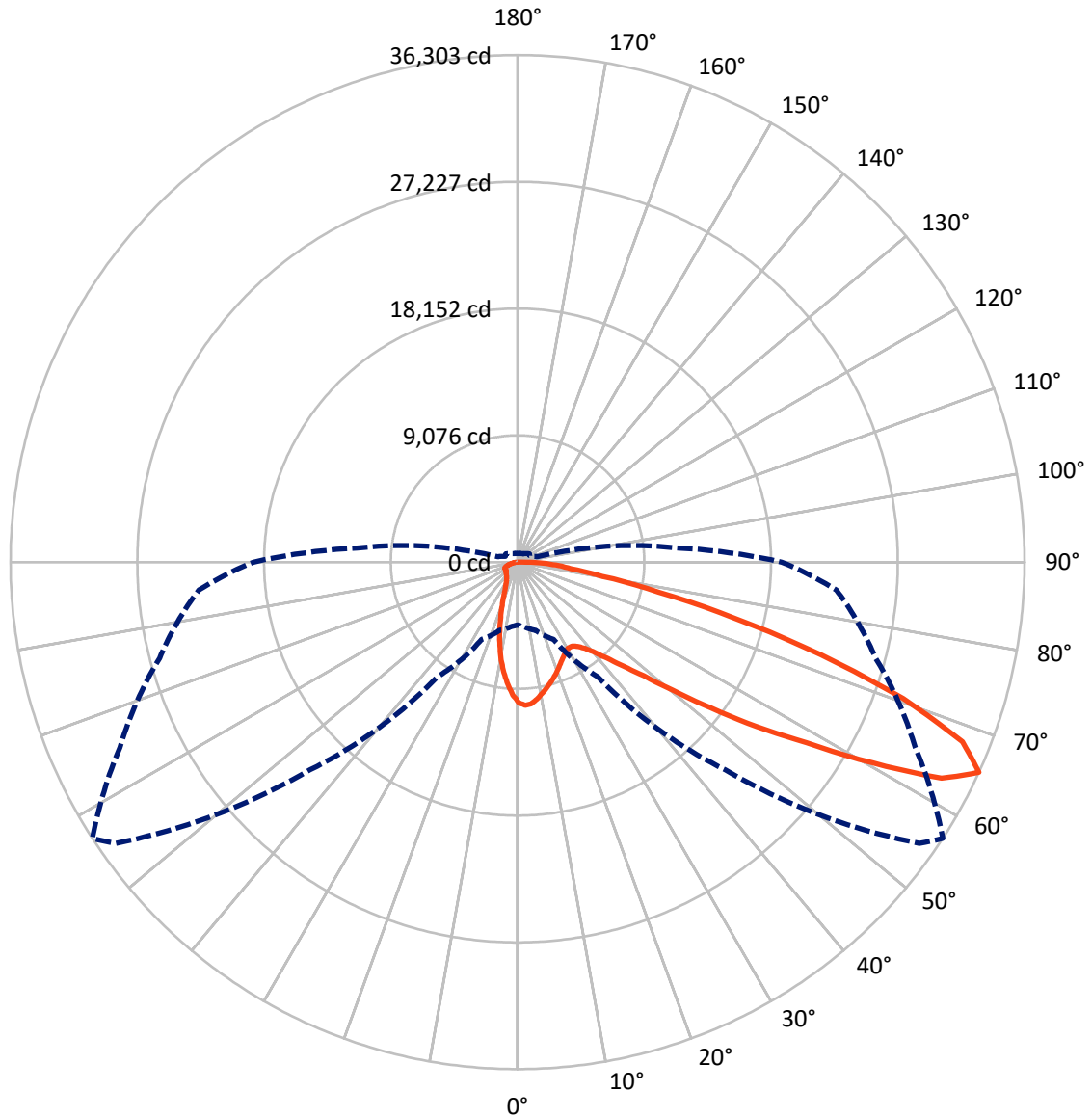
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5610.2	0.0	5610.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	30971.6	0.0	30971.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	36581.8	0.0	36581.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	842.4	2.3
10°-20°	1813.0	5.0
20°-30°	2344.0	6.4
30°-40°	3154.3	8.6
40°-50°	5029.7	13.7
50°-60°	8883.6	24.3
60°-70°	9773.1	26.7
70°-80°	4088.3	11.2
80°-90°	653.4	1.8
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°	36581.8	100.0
0°-180°	36581.8	100.0

**Coefficient of Utilization**



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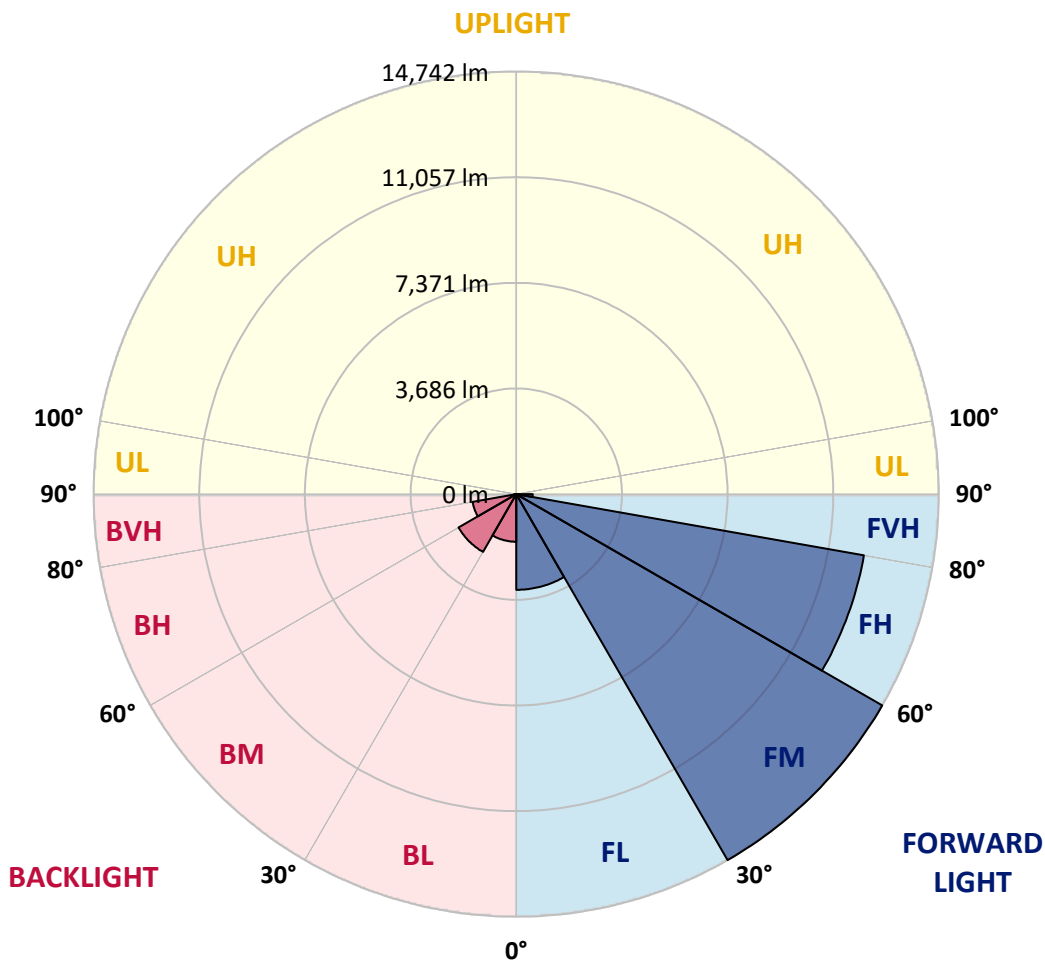
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3338.0	9.1			
FM (30°-60°)	14742.4	40.3			
FH (60°-80°)	12314.5	33.7			G5
FVH (80°-90°)	576.7	1.6			G4/750
BL (0°-30°)	1661.5	4.5	B3/2500		
BM (30°-60°)	2325.1	6.4	B2/2500		
BH (60°-80°)	1546.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	76.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5
2.5°	10331.1	10347.6	10347.6	10380.5	10269.4	10322.9	10314.7	10265.3	10281.7	10195.3	10108.9
5°	10038.9	10026.5	10092.4	10100.6	10187.1	10211.8	10232.3	10199.4	10207.6	10018.3	9936.0
7.5°	9289.8	9285.7	9396.8	9491.5	9672.6	9841.3	9952.5	9919.5	9964.8	9845.4	9652.0
10°	8400.7	8495.4	8610.6	8705.3	9038.7	9252.7	9540.9	9569.7	9742.5	9713.7	9363.9
12.5°	7733.9	7775.1	7861.5	8133.2	8437.8	8791.7	9203.3	9240.4	9409.1	9491.5	9186.9
15°	7186.5	7223.6	7334.7	7536.4	7878.0	8297.8	8820.6	8915.2	9252.7	9281.5	8956.4
17.5°	6787.3	6816.1	6890.2	7091.8	7371.7	7910.9	8404.8	8573.6	9018.1	9158.1	8717.7
20°	6630.9	6569.1	6610.3	6737.9	7017.8	7433.5	8071.4	8219.6	8787.6	9063.4	8491.3
22.5°	6560.9	6507.4	6532.1	6523.8	6746.1	7042.5	7713.4	7869.8	8569.5	8952.3	8289.6
25°	6614.4	6614.4	6589.7	6569.1	6593.8	6787.3	7326.5	7569.3	8277.2	8857.6	8083.8
27.5°	6902.5	6791.4	6803.7	6717.3	6692.6	6692.6	7153.6	7297.6	8182.6	8804.1	7915.0
30°	7087.7	7141.2	7145.4	7017.8	6890.2	6659.7	6993.1	7133.0	8104.4	8869.9	7816.3
32.5°	7561.1	7536.4	7466.4	7441.7	7252.4	6993.1	7071.3	7165.9	8059.1	9018.1	7845.1
35°	8034.4	8022.1	8026.2	8013.8	7816.3	7433.5	7281.2	7408.8	8141.4	9277.4	7943.9
37.5°	8524.2	8557.1	8697.1	8697.1	8487.2	8071.4	7869.8	7832.7	8441.9	9701.4	8178.5
40°	9014.0	9096.3	9273.3	9553.2	9256.9	8869.9	8544.8	8487.2	8804.1	10269.4	8742.4
42.5°	9483.2	9619.1	9968.9	10384.6	10285.8	9898.9	9466.8	9400.9	9549.1	11113.2	9528.5
45°	10084.2	10199.4	10751.0	11388.9	11524.8	11183.1	10676.9	10623.4	10615.1	12348.0	10611.0
47.5°	10997.9	11121.4	11672.9	12315.0	12734.9	12788.4	12220.4	12162.7	11965.2	14014.9	12195.7
50°	12142.2	12343.8	12808.9	13558.1	14167.2	14739.3	14578.8	14410.1	14023.2	15953.6	14204.3
52.5°	12977.7	13224.7	13854.4	14813.4	15887.7	16797.3	17373.6	17373.6	16484.5	18081.5	16620.3
55°	13200.0	13348.1	14142.5	15529.6	17369.5	19670.3	20876.3	20785.7	19415.1	20320.6	19431.6
57.5°	12315.0	12508.5	13471.6	14924.6	18147.4	22358.0	24354.3	24374.9	22617.3	22921.9	22205.7
60°	9878.4	9940.1	11076.1	13018.9	17398.3	24523.0	29104.1	29182.3	26260.0	25239.2	23617.5
62.5°	6828.4	7026.0	7882.1	9586.1	14414.2	24280.2	33685.2	34072.1	29178.2	26461.7	23839.8
65°	4494.7	4614.0	5070.9	6108.1	10034.8	21045.0	35109.4	36303.0	31409.1	26531.6	22909.6
67.5°	3259.9	3280.4	3416.3	3951.3	6029.9	15134.5	32676.8	34360.2	32244.6	25947.2	20728.1
70°	2634.2	2650.7	2700.1	3041.7	3893.7	9470.9	26651.0	29289.4	29738.0	23177.1	16694.4
72.5°	2140.3	2160.9	2222.6	2543.7	3210.5	5268.5	19489.2	22703.8	24189.6	17147.2	11096.7
75°	1683.4	1699.9	1848.1	2165.0	3017.0	3618.0	12928.3	16077.0	16278.7	10022.4	5194.4
77.5°	1152.5	1181.3	1362.4	1835.7	2840.0	3165.2	8059.1	10298.2	9240.4	3922.5	1786.3
80°	732.6	773.8	880.8	1391.2	2510.8	3021.1	5013.3	6149.3	4046.0	1341.8	860.2
82.5°	432.2	473.3	580.4	901.4	1971.6	2803.0	3531.5	3848.4	1897.5	687.4	518.6
85°	238.7	267.5	349.9	543.3	1156.6	2490.2	2827.7	2761.8	1086.6	366.3	325.2
87.5°	78.2	90.6	127.6	218.1	477.5	1173.1	1695.8	1592.9	563.9	168.8	127.6
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°	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5	10059.5
2.5°	10051.2	10038.9	9853.7	9713.7	9475.0	9277.4	9199.2	9092.2	9088.1	9009.9	8989.3
5°	9808.4	9680.8	9396.8	9125.1	8701.2	8417.2	8157.9	7976.8	7902.7	7742.2	7705.1
7.5°	9495.6	9326.8	8890.5	8380.1	7882.1	7437.6	7034.2	6630.9	6404.5	6326.3	6239.8
10°	9170.4	8874.1	8227.9	7655.7	6960.1	6276.9	5643.0	5075.0	4766.3	4548.2	4453.5
12.5°	8911.1	8516.0	7692.8	6836.7	5918.8	5005.0	4268.3	3671.5	3321.6	3157.0	3082.9
15°	8618.9	8096.1	7108.3	6025.8	4881.6	3844.3	3124.0	2654.8	2514.9	2436.7	2424.3
17.5°	8310.2	7705.1	6474.4	5227.3	3869.0	2893.5	2428.4	2239.1	2177.4	2144.4	2128.0
20°	8022.1	7355.3	5824.1	4338.2	3029.4	2321.4	2103.3	2004.5	2000.4	2016.8	2012.7
22.5°	7614.6	6898.4	5182.0	3515.1	2420.2	2020.9	1881.0	1856.3	1881.0	1901.6	1909.8
25°	7384.1	6523.8	4465.8	2790.6	2000.4	1794.6	1749.3	1741.1	1778.1	1802.8	1798.7
27.5°	7145.4	6136.9	3799.1	2235.0	1753.4	1634.0	1625.8	1634.0	1671.1	1708.1	1704.0
30°	6960.1	5828.2	3173.4	1868.7	1564.1	1518.8	1510.6	1518.8	1539.4	1543.5	1543.5
32.5°	6807.8	5461.9	2642.5	1621.7	1448.8	1411.8	1420.0	1415.9	1420.0	1424.1	1428.2
35°	6717.3	5243.8	2206.2	1469.4	1354.2	1325.3	1321.2	1308.9	1313.0	1317.1	1313.0
37.5°	6910.7	5136.7	1860.4	1362.4	1288.3	1263.6	1255.4	1247.1	1234.8	1234.8	1234.8
40°	7203.0	5079.1	1650.5	1292.4	1238.9	1210.1	1185.4	1177.2	1177.2	1181.3	1185.4
42.5°	7783.3	5173.8	1506.5	1238.9	1177.2	1144.2	1119.5	1123.7	1136.0	1148.4	1140.1
45°	8623.0	5461.9	1440.6	1197.8	1140.1	1094.9	1078.4	1074.3	1086.6	1107.2	1123.7
47.5°	9722.0	5910.6	1415.9	1160.7	1115.4	1053.7	1033.1	1045.5	1061.9	1090.7	1078.4
50°	11520.6	6919.0	1436.5	1127.8	1078.4	1033.1	1008.4	996.1	1008.4	1029.0	1037.2
52.5°	13870.9	8750.6	1514.7	1111.3	1053.7	1016.6	975.5	954.9	967.3	983.7	983.7
55°	16682.1	11253.1	1732.8	1090.7	1012.5	992.0	946.7	905.5	913.7	913.7	909.6
57.5°	19159.9	13142.3	1992.1	1061.9	987.8	959.0	901.4	852.0	843.8	847.9	852.0
60°	20271.2	13644.5	2115.6	1053.7	987.8	917.9	839.7	790.3	777.9	769.7	769.7
62.5°	20077.8	12776.0	1864.5	1016.6	1012.5	884.9	782.0	728.5	712.1	695.6	699.7
65°	18908.8	11537.1	1469.4	967.3	1016.6	864.4	724.4	670.9	642.1	621.5	617.4
67.5°	16772.6	9849.6	1164.8	930.2	975.5	827.3	675.0	613.3	588.6	568.0	559.8
70°	13121.8	7721.6	1012.5	880.8	876.7	736.8	617.4	563.9	526.8	502.2	502.2
72.5°	8507.7	4881.6	868.5	782.0	757.3	617.4	535.1	502.2	473.3	452.8	452.8
75°	3852.6	2267.9	699.7	654.4	617.4	493.9	452.8	436.3	411.6	391.0	391.0
77.5°	1383.0	967.3	522.7	514.5	461.0	382.8	366.3	354.0	337.5	316.9	316.9
80°	773.8	613.3	391.0	374.6	321.0	284.0	263.4	263.4	255.2	242.8	238.7
82.5°	489.8	399.3	288.1	251.1	209.9	189.3	181.1	177.0	172.9	156.4	152.3
85°	308.7	271.7	189.3	148.2	123.5	94.7	90.6	86.4	78.2	70.0	70.0
87.5°	139.9	156.4	74.1	45.3	32.9	20.6	12.3	4.1	0.0	0.0	0.0
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)