

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: P480411

Luminaire Tested: **IFLD-L-SA8C-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480411  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

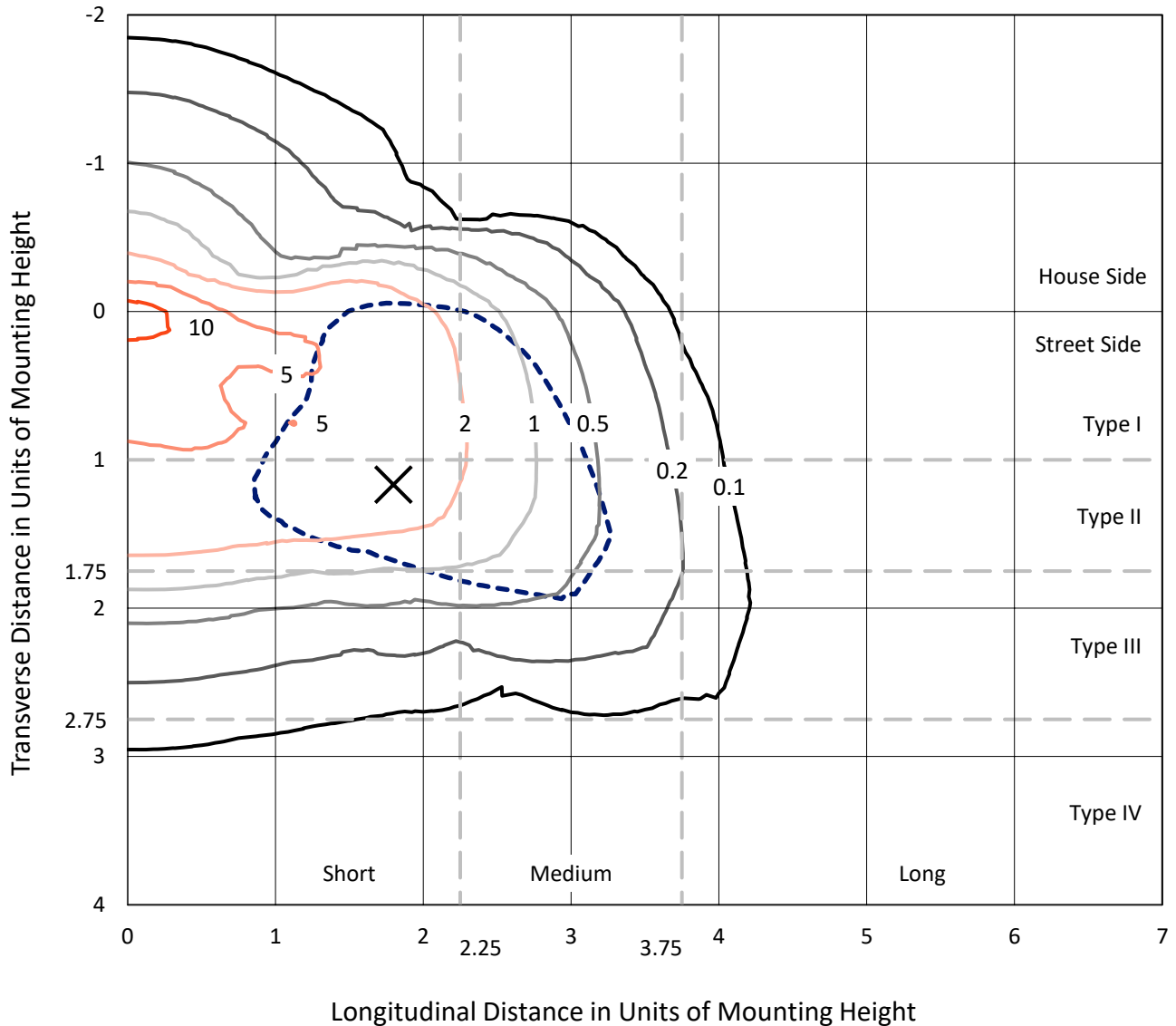
Lumens per Lamp: N/A  
Luminaire Lumens: 41807.8 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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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 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

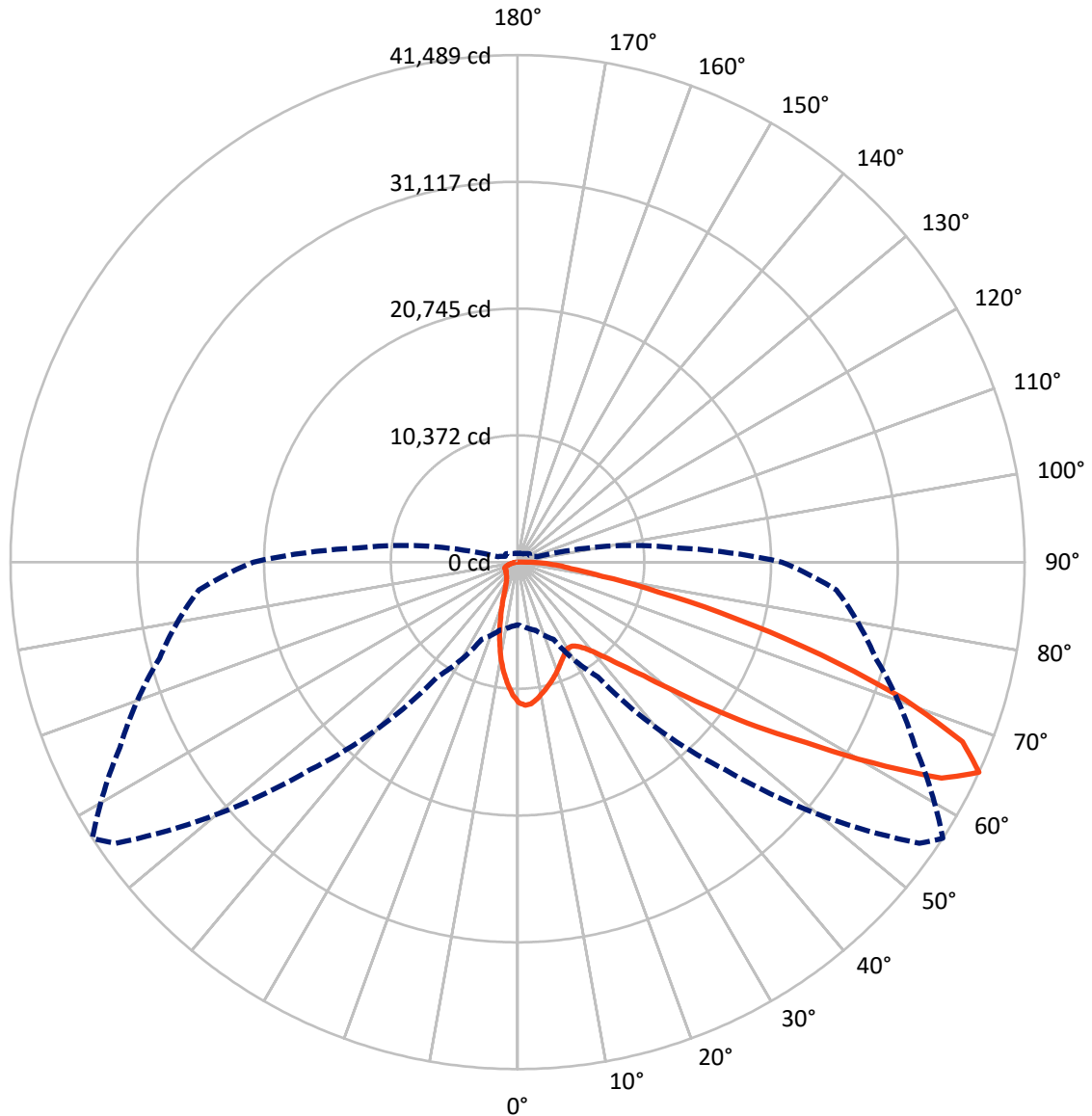
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P480411  
CATALOG NUMBER: IFLD-L-SA8C-727-U-SL3

### 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	6411.6	0.0	6411.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	35396.2	0.0	35396.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	41807.8	0.0	41807.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	962.7	2.3
10°-20°	2072.0	5.0
20°-30°	2678.9	6.4
30°-40°	3604.9	8.6
40°-50°	5748.2	13.7
50°-60°	10152.7	24.3
60°-70°	11169.3	26.7
70°-80°	4672.3	11.2
80°-90°	746.7	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°	41807.8	100.0
0°-180°	41807.8	100.0

**Coefficient of Utilization**



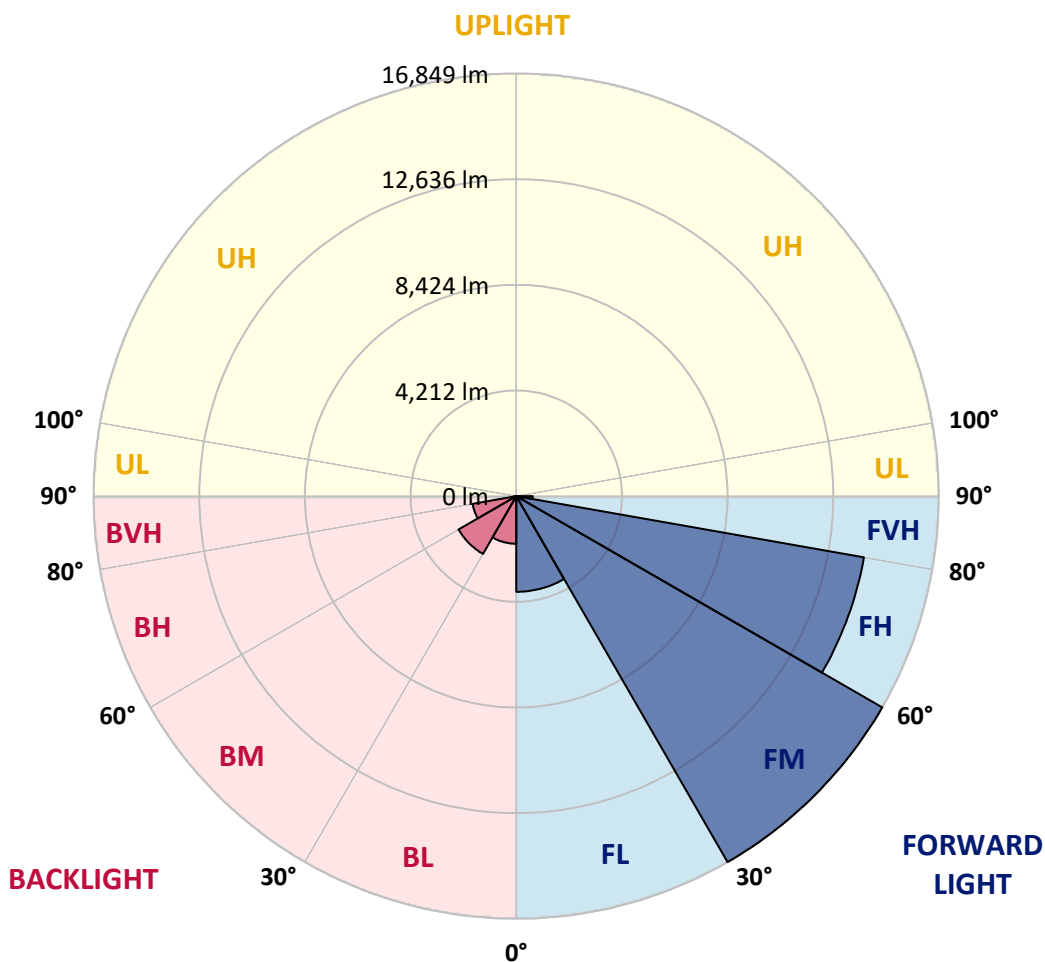
REPORT NUMBER: P480411  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3814.8	9.1			
FM (30°-60°)	16848.5	40.3			
FH (60°-80°)	14073.8	33.7			G5
FVH (80°-90°)	659.1	1.6			G4/750
BL (0°-30°)	1898.8	4.5	B3/2500		
BM (30°-60°)	2657.3	6.4	B3/5000		
BH (60°-80°)	1767.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	87.6	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





REPORT NUMBER: P480411

CATALOG NUMBER: IFLD-L-SA8C-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6
2.5°	11807.0	11825.8	11825.8	11863.5	11736.5	11797.6	11788.2	11731.8	11750.6	11651.8	11553.0
5°	11473.0	11458.9	11534.2	11543.6	11642.4	11670.6	11694.1	11656.5	11665.9	11449.5	11355.4
7.5°	10616.9	10612.2	10739.2	10847.4	11054.4	11247.3	11374.3	11336.6	11388.4	11252.0	11030.9
10°	9600.9	9709.0	9840.8	9949.0	10330.0	10574.6	10903.9	10936.8	11134.4	11101.4	10701.6
12.5°	8838.8	8885.8	8984.6	9295.1	9643.2	10047.7	10518.1	10560.5	10753.3	10847.4	10499.3
15°	8213.2	8255.5	8382.5	8613.0	9003.4	9483.3	10080.7	10188.9	10574.6	10607.5	10235.9
17.5°	7756.9	7789.8	7874.5	8105.0	8424.9	9041.1	9605.6	9798.4	10306.5	10466.4	9963.1
20°	7578.1	7507.6	7554.6	7700.4	8020.3	8495.4	9224.5	9393.9	10043.0	10358.2	9704.3
22.5°	7498.2	7437.0	7465.2	7455.8	7709.9	8048.5	8815.3	8994.0	9793.7	10231.2	9473.8
25°	7559.3	7559.3	7531.1	7507.6	7535.8	7756.9	8373.1	8650.6	9459.7	10123.0	9238.6
27.5°	7888.6	7761.6	7775.7	7676.9	7648.7	7648.7	8175.5	8340.2	9351.5	10061.8	9045.8
30°	8100.3	8161.4	8166.1	8020.3	7874.5	7611.1	7992.1	8152.0	9262.2	10137.1	8932.9
32.5°	8641.2	8613.0	8533.0	8504.8	8288.4	7992.1	8081.5	8189.7	9210.4	10306.5	8965.8
35°	9182.2	9168.1	9172.8	9158.7	8932.9	8495.4	8321.4	8467.2	9304.5	10602.8	9078.7
37.5°	9742.0	9779.6	9939.5	9939.5	9699.6	9224.5	8994.0	8951.7	9647.9	11087.3	9346.8
40°	10301.8	10395.8	10598.1	10918.0	10579.3	10137.1	9765.5	9699.6	10061.8	11736.5	9991.3
42.5°	10838.0	10993.2	11393.1	11868.2	11755.3	11313.1	10819.2	10743.9	10913.3	12700.8	10889.8
45°	11524.8	11656.5	12286.8	13016.0	13171.2	12780.8	12202.2	12141.0	12131.6	14112.0	12126.9
47.5°	12569.1	12710.2	13340.5	14074.4	14554.2	14615.3	13966.2	13900.3	13674.5	16017.1	13937.9
50°	13876.8	14107.3	14638.8	15495.0	16191.2	16845.0	16661.6	16468.7	16026.5	18232.7	16233.5
52.5°	14831.7	15113.9	15833.7	16929.7	18157.4	19197.0	19855.6	19855.6	18839.5	20664.7	18994.7
55°	15085.7	15255.1	16162.9	17748.2	19850.9	22480.4	23858.7	23755.2	22188.8	23223.6	22207.6
57.5°	14074.4	14295.4	15396.2	17056.7	20739.9	25552.1	27833.5	27857.1	25848.5	26196.6	25378.1
60°	11289.6	11360.2	12658.5	14878.7	19883.8	28026.4	33262.0	33351.3	30011.5	28844.9	26991.5
62.5°	7803.9	8029.7	9008.2	10955.6	16473.4	27748.9	38497.5	38939.7	33346.6	30242.0	27245.5
65°	5136.8	5273.2	5795.3	6980.7	11468.3	24051.5	40125.1	41489.2	35896.2	30322.0	26182.4
67.5°	3725.6	3749.1	3904.3	4515.8	6891.4	17296.6	37345.0	39269.0	36851.1	29654.0	23689.3
70°	3010.6	3029.4	3085.8	3476.3	4450.0	10823.9	30458.4	33473.6	33986.4	26488.2	19079.4
72.5°	2446.1	2469.6	2540.2	2907.1	3669.1	6021.1	22273.4	25947.2	27645.4	19596.8	12682.0
75°	1923.9	1942.8	2112.1	2474.3	3448.0	4134.8	14775.3	18373.8	18604.3	11454.2	5936.4
77.5°	1317.1	1350.0	1557.0	2098.0	3245.8	3617.4	9210.4	11769.4	10560.5	4482.9	2041.5
80°	837.3	884.4	1006.7	1590.0	2869.4	3452.7	5729.5	7027.8	4624.0	1533.5	983.1
82.5°	493.9	541.0	663.3	1030.2	2253.2	3203.4	4036.0	4398.2	2168.5	785.6	592.7
85°	272.8	305.8	399.8	620.9	1321.8	2845.9	3231.6	3156.4	1241.9	418.7	371.6
87.5°	89.4	103.5	145.8	249.3	545.7	1340.6	1938.0	1820.4	644.4	192.9	145.8
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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 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6	11496.6
2.5°	11487.2	11473.0	11261.4	11101.4	10828.6	10602.8	10513.4	10391.1	10386.4	10297.0	10273.5
5°	11209.6	11063.8	10739.2	10428.8	9944.2	9619.7	9323.3	9116.3	9031.7	8848.2	8805.9
7.5°	10852.1	10659.3	10160.6	9577.3	9008.2	8500.1	8039.1	7578.1	7319.4	7230.0	7131.3
10°	10480.5	10141.8	9403.3	8749.4	7954.5	7173.6	6449.2	5800.0	5447.2	5197.9	5089.7
12.5°	10184.2	9732.6	8791.8	7813.3	6764.3	5720.1	4878.0	4196.0	3796.1	3608.0	3523.3
15°	9850.2	9252.8	8123.8	6886.7	5578.9	4393.5	3570.3	3034.1	2874.1	2784.8	2770.7
17.5°	9497.4	8805.9	7399.4	5974.1	4421.8	3306.9	2775.4	2559.0	2488.4	2450.8	2432.0
20°	9168.1	8406.0	6656.2	4958.0	3462.1	2653.1	2403.7	2290.8	2286.1	2305.0	2300.3
22.5°	8702.4	7883.9	5922.3	4017.2	2765.9	2309.7	2149.7	2121.5	2149.7	2173.2	2182.7
25°	8439.0	7455.8	5103.8	3189.3	2286.1	2050.9	1999.2	1989.8	2032.1	2060.4	2055.6
27.5°	8166.1	7013.7	4341.8	2554.3	2003.9	1867.5	1858.1	1867.5	1909.8	1952.2	1947.5
30°	7954.5	6660.9	3626.8	2135.6	1787.5	1735.8	1726.4	1735.8	1759.3	1764.0	1764.0
32.5°	7780.4	6242.2	3020.0	1853.4	1655.8	1613.5	1622.9	1618.2	1622.9	1627.6	1632.3
35°	7676.9	5992.9	2521.3	1679.3	1547.6	1514.7	1510.0	1495.9	1500.6	1505.3	1500.6
37.5°	7898.0	5870.6	2126.2	1557.0	1472.4	1444.1	1434.7	1425.3	1411.2	1411.2	1411.2
40°	8232.0	5804.7	1886.3	1477.1	1415.9	1383.0	1354.8	1345.3	1345.3	1350.0	1354.8
42.5°	8895.3	5912.9	1721.7	1415.9	1345.3	1307.7	1279.5	1284.2	1298.3	1312.4	1303.0
45°	9854.9	6242.2	1646.4	1368.9	1303.0	1251.3	1232.4	1227.7	1241.9	1265.4	1284.2
47.5°	11110.8	6754.9	1618.2	1326.5	1274.8	1204.2	1180.7	1194.8	1213.6	1246.6	1232.4
50°	13166.5	7907.4	1641.7	1288.9	1232.4	1180.7	1152.5	1138.4	1152.5	1176.0	1185.4
52.5°	15852.5	10000.7	1731.1	1270.1	1204.2	1161.9	1114.8	1091.3	1105.4	1124.3	1124.3
55°	19065.3	12860.7	1980.4	1246.6	1157.2	1133.7	1081.9	1034.9	1044.3	1044.3	1039.6
57.5°	21897.1	15019.9	2276.7	1213.6	1129.0	1096.0	1030.2	973.7	964.3	969.0	973.7
60°	23167.2	15593.7	2417.9	1204.2	1129.0	1049.0	959.6	903.2	889.1	879.6	879.6
62.5°	22946.1	14601.2	2130.9	1161.9	1157.2	1011.4	893.8	832.6	813.8	795.0	799.7
65°	21610.2	13185.3	1679.3	1105.4	1161.9	987.8	827.9	766.8	733.8	710.3	705.6
67.5°	19168.8	11256.7	1331.2	1063.1	1114.8	945.5	771.5	700.9	672.7	649.2	639.7
70°	14996.3	8824.7	1157.2	1006.7	1002.0	842.0	705.6	644.4	602.1	573.9	573.9
72.5°	9723.2	5578.9	992.5	893.8	865.5	705.6	611.5	573.9	541.0	517.4	517.4
75°	4402.9	2591.9	799.7	747.9	705.6	564.5	517.4	498.6	470.4	446.9	446.9
77.5°	1580.5	1105.4	597.4	588.0	526.8	437.5	418.7	404.5	385.7	362.2	362.2
80°	884.4	700.9	446.9	428.1	366.9	324.6	301.1	301.1	291.6	277.5	272.8
82.5°	559.8	456.3	329.3	286.9	239.9	216.4	207.0	202.3	197.6	178.8	174.0
85°	352.8	310.5	216.4	169.3	141.1	108.2	103.5	98.8	89.4	80.0	80.0
87.5°	159.9	178.8	84.7	51.7	37.6	23.5	14.1	4.7	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)