

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: P480021

Luminaire Tested: **IFLD-L-SA8C-727-U-SL2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P480021  
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-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

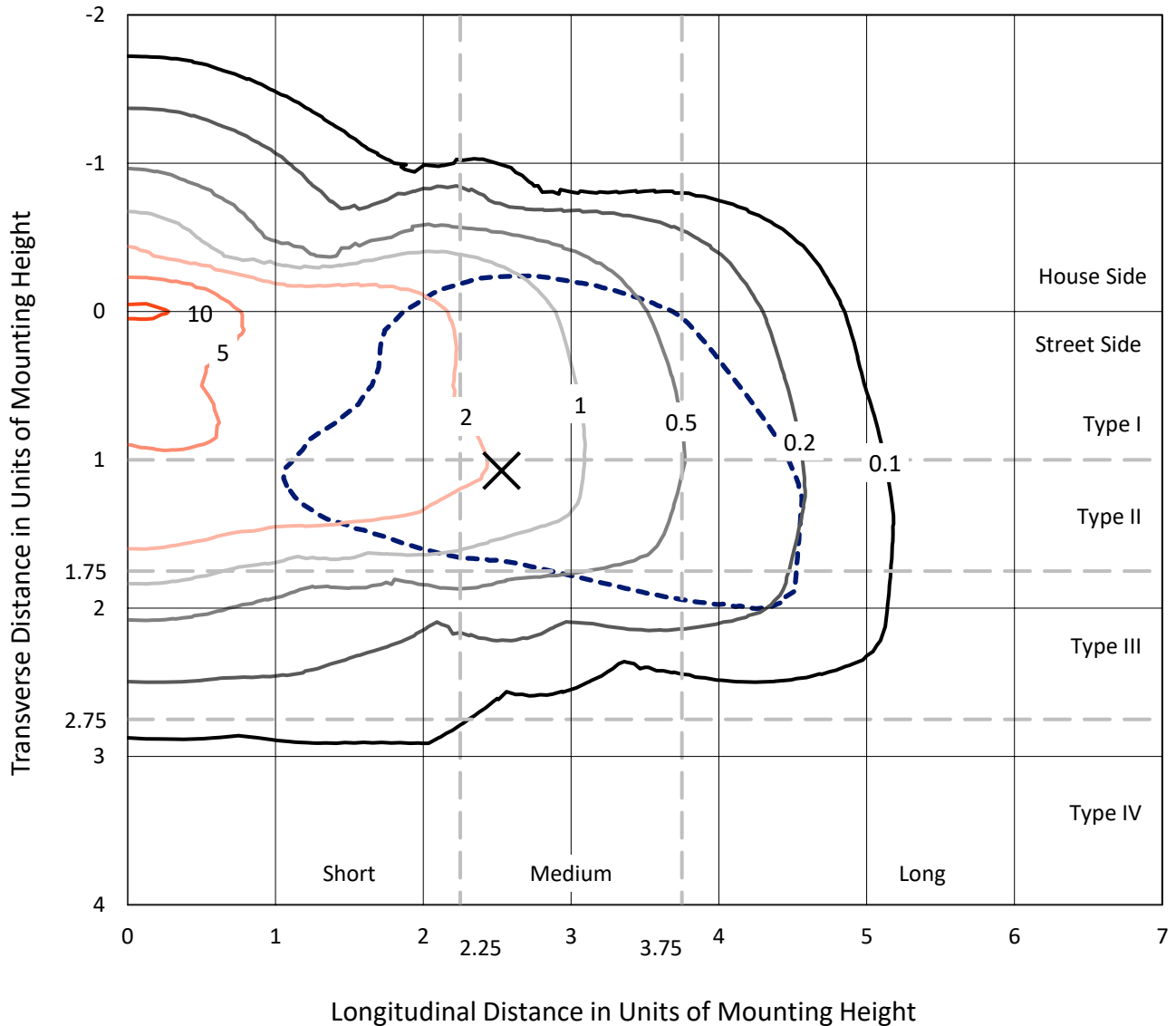
Lumens per Lamp: N/A  
Luminaire Lumens: 42245.6 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P480021  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

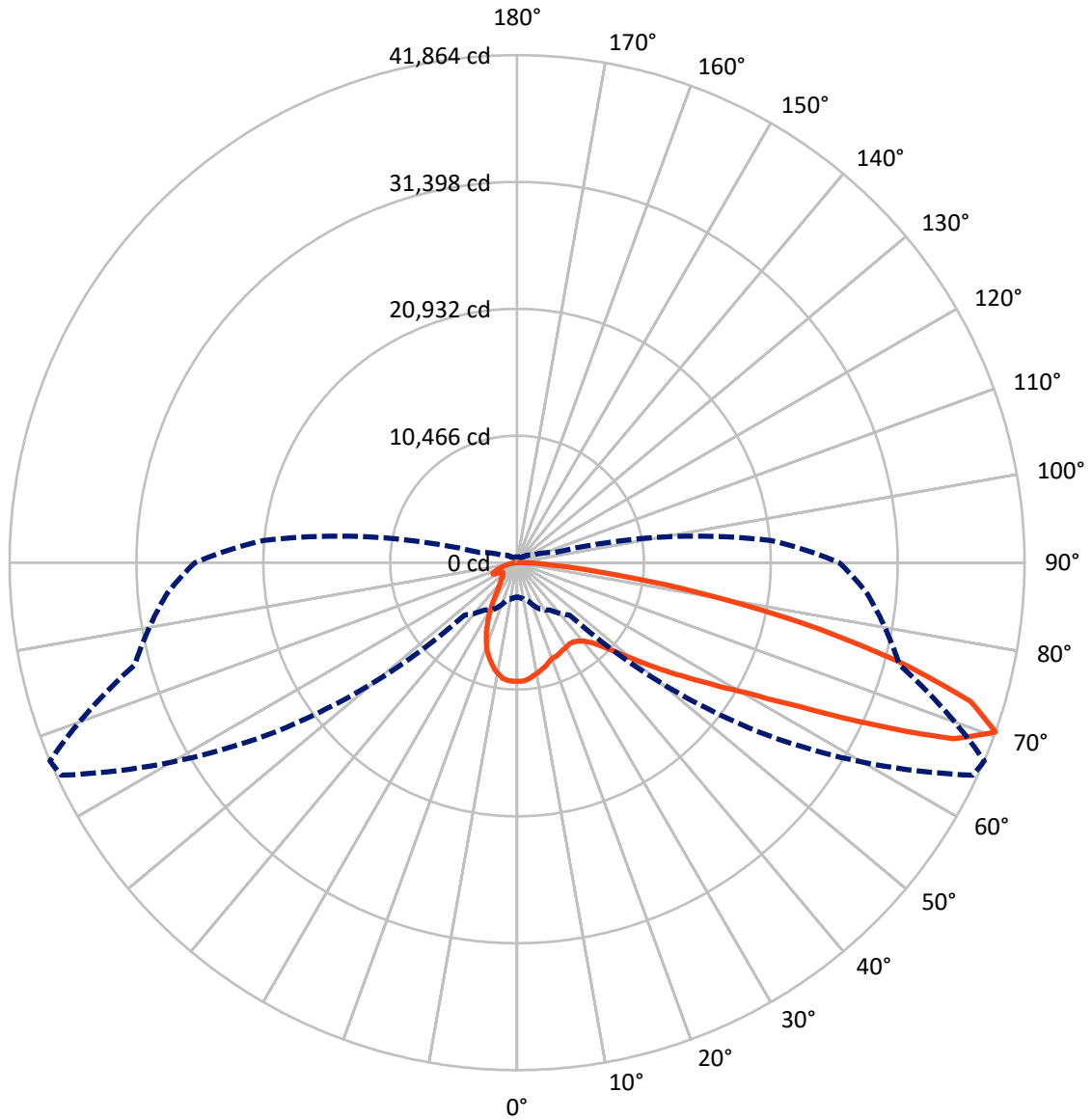
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480021  
CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480021  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

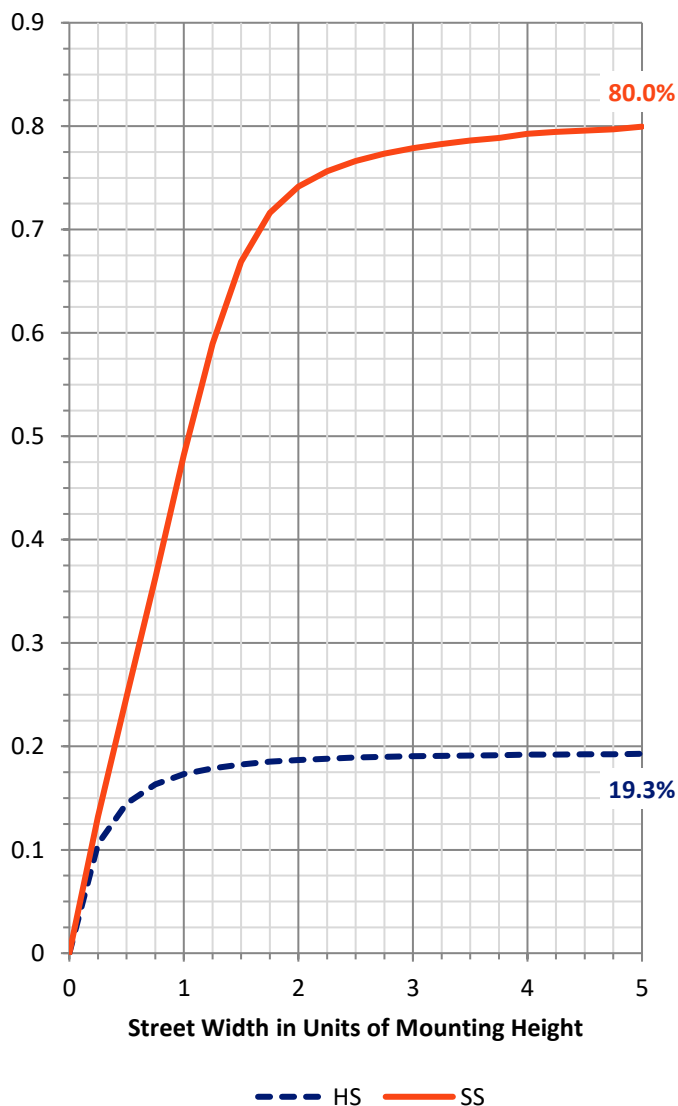
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8227.7	0.0	8227.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	34017.9	0.0	34017.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	42245.6	0.0	42245.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.3	2.0
10°-20°	2043.6	4.8
20°-30°	2759.8	6.5
30°-40°	3692.8	8.7
40°-50°	5430.2	12.9
50°-60°	8464.3	20.0
60°-70°	10426.6	24.7
70°-80°	7367.4	17.4
80°-90°	1207.5	2.9
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°	42245.6	100.0
0°-180°	42245.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480021

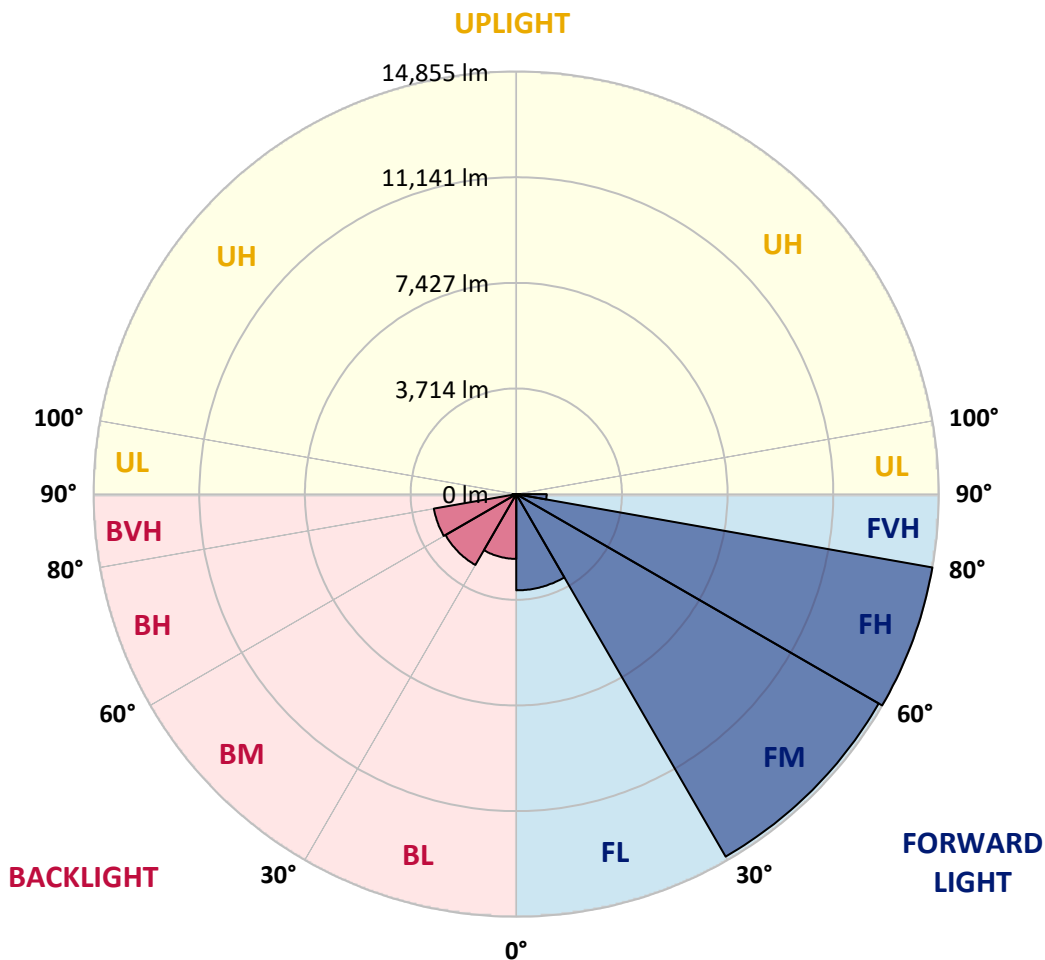
CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.4	8.0			
FM (30°-60°)	14713.2	34.8			
FH (60°-80°)	14855.0	35.2			G5
FVH (80°-90°)	1068.2	2.5			G5
BL (0°-30°)	2275.2	5.4	B3/2500		
BM (30°-60°)	2874.1	6.8	B3/5000		
BH (60°-80°)	2939.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	139.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





REPORT NUMBER: P480021  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7
2.5°	9106.2	9209.1	9246.5	9302.7	9447.7	9555.2	9620.7	9695.5	9784.4	9859.2	9906.0
5°	8470.2	8526.3	8615.1	8675.9	8858.3	9148.3	9344.8	9662.8	9653.4	9770.4	9948.1
7.5°	7852.8	7908.9	7951.0	8072.6	8334.5	8596.4	8956.6	9471.0	9433.6	9704.9	9980.8
10°	7469.3	7427.2	7441.2	7647.0	7852.8	8147.4	8601.1	9124.9	9260.6	9681.5	10074.4
12.5°	7109.1	7062.4	7174.6	7305.6	7558.1	7824.7	8367.3	8839.6	9045.4	9597.3	10116.5
15°	6884.6	6851.9	6992.2	7048.3	7347.7	7665.7	8049.2	8624.5	8849.0	9494.4	10051.0
17.5°	6758.3	6786.4	6837.9	6959.5	7151.2	7422.5	7843.4	8479.5	8577.7	9368.1	10037.0
20°	6781.7	6814.5	6819.2	6870.6	7001.6	7212.0	7642.3	8325.2	8390.6	9344.8	10074.4
22.5°	6968.8	6922.0	6940.8	6908.0	6945.4	7109.1	7488.0	8119.4	8371.9	9148.3	9994.9
25°	7249.4	7184.0	7174.6	7062.4	6992.2	7039.0	7459.9	8067.9	8231.6	9087.5	9990.2
27.5°	7745.2	7647.0	7647.0	7478.6	7193.3	7118.5	7380.4	7983.7	8128.7	9031.4	9882.6
30°	8222.3	8222.3	8226.9	7988.4	7670.4	7300.9	7413.1	7951.0	8044.5	8863.0	9737.6
32.5°	8802.2	8788.2	8764.8	8647.9	8156.8	7604.9	7572.2	7908.9	7955.7	8806.9	9695.5
35°	9368.1	9330.7	9513.1	9410.2	8909.8	8198.9	7735.9	7927.6	8030.5	8722.7	9564.6
37.5°	9793.8	9817.1	10196.0	10261.5	9831.2	8872.4	8198.9	8114.7	8212.9	8844.3	9564.6
40°	10345.7	10439.2	10794.6	11014.5	10752.6	9761.0	8933.2	8428.1	8498.2	9115.6	9770.4
42.5°	11070.6	11150.1	11603.8	11889.1	11814.2	10892.9	9658.1	9082.8	9026.7	9569.3	10079.1
45°	12029.4	12043.4	12501.8	12894.6	13049.0	12076.2	10808.7	9910.7	9863.9	10350.3	10645.0
47.5°	13170.6	13156.6	13441.9	13862.8	14279.1	13488.6	12132.3	11168.8	11000.4	11468.1	11585.1
50°	14274.4	14213.6	14279.1	14816.9	15616.7	15256.6	13741.2	12707.6	12539.2	12796.4	12997.5
52.5°	14882.4	14957.2	14779.5	15490.4	17038.5	17347.2	15873.9	14545.6	14400.7	14526.9	14877.7
55°	14456.8	14611.1	14494.2	15167.7	17660.6	19896.2	18633.4	16673.7	16486.6	16439.9	17015.1
57.5°	12646.8	12927.4	12950.8	14017.1	17445.4	21869.9	22515.4	19185.3	18904.7	18427.6	19021.6
60°	9709.6	9990.2	10205.3	11468.1	15602.7	23048.5	27014.7	22758.6	21832.5	20597.8	20953.2
62.5°	6805.1	6996.9	7212.0	7988.4	12029.4	22356.3	30906.0	27791.1	26084.0	22884.8	23329.2
65°	4957.7	5107.3	5327.2	5785.5	7389.8	18497.8	32711.3	33768.4	32150.1	25794.0	25737.8
67.5°	3732.3	3825.8	4115.8	4850.1	5121.4	11426.1	30840.5	40082.4	38772.8	29025.8	27674.2
70°	2824.9	2904.5	3175.7	4181.3	4784.6	6126.9	24330.1	41490.2	41864.3	32650.5	28974.4
72.5°	1945.7	2034.5	2338.5	3484.4	4555.5	4859.5	15270.6	37692.4	39109.6	34142.5	27580.6
75°	1192.6	1253.5	1431.2	2642.5	4522.7	4751.9	8404.7	30887.3	32388.6	31546.8	24128.9
77.5°	841.9	837.2	869.9	1548.1	3919.4	4780.0	5182.2	22632.3	24091.5	23249.7	16374.4
80°	612.7	617.4	650.1	926.1	2661.2	4859.5	4083.1	15158.3	15593.3	12122.9	6459.0
82.5°	369.5	388.2	467.7	626.7	1599.6	4387.1	3774.4	8423.4	7880.8	3891.3	1777.3
85°	196.4	196.4	275.9	397.5	851.2	3273.9	3634.1	4008.2	3358.1	1206.7	659.5
87.5°	46.8	46.8	79.5	159.0	341.4	1566.8	2478.8	1594.9	1276.8	406.9	271.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480021  
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7
2.5°	9887.3	9831.2	9901.3	9761.0	9648.8	9653.4	9480.4	9471.0	9447.7	9326.1	9368.1
5°	9999.5	9952.8	9873.3	9718.9	9471.0	9223.2	9073.5	8881.7	8802.2	8760.1	8778.8
7.5°	10107.1	10022.9	9793.8	9578.6	9195.1	8727.4	8456.1	8198.9	7871.5	7834.1	7768.6
10°	10135.2	9957.5	9662.8	9204.4	8694.7	8175.5	7558.1	7081.1	6828.5	6632.1	6557.2
12.5°	10093.1	10018.3	9452.3	8863.0	8091.3	7277.5	6557.2	5883.7	5416.0	5172.8	5107.3
15°	10088.4	9957.5	9218.5	8343.9	7357.0	6295.3	5271.0	4461.9	3970.8	3769.7	3769.7
17.5°	10093.1	9779.7	8942.5	7820.0	6491.8	5055.9	3928.7	3264.6	2993.3	2965.3	2988.6
20°	9999.5	9648.8	8652.6	7202.7	5406.7	3797.8	2853.0	2581.7	2581.7	2619.2	2633.2
22.5°	9915.4	9452.3	8194.2	6440.3	4302.9	2750.1	2319.8	2240.3	2329.2	2394.7	2422.7
25°	9798.4	9288.6	7726.5	5649.9	3273.9	2216.9	2015.8	2034.5	2118.7	2235.6	2226.3
27.5°	9630.1	9003.3	7169.9	4733.2	2436.7	1912.9	1861.5	1870.8	1959.7	2011.1	2001.8
30°	9438.3	8713.4	6655.5	3821.2	1931.6	1753.9	1749.2	1772.6	1786.6	1814.7	1810.0
32.5°	9195.1	8329.8	6108.2	2969.9	1739.9	1665.0	1646.3	1632.3	1646.3	1641.6	1627.6
35°	9022.0	8124.0	5551.7	2263.7	1632.3	1585.5	1571.5	1548.1	1529.4	1501.3	1496.7
37.5°	8975.3	7918.3	4967.0	1847.4	1548.1	1524.7	1478.0	1435.9	1412.5	1398.4	1389.1
40°	8947.2	7782.6	4396.4	1622.9	1478.0	1454.6	1398.4	1342.3	1318.9	1304.9	1309.6
42.5°	9045.4	7707.8	3816.5	1510.7	1417.1	1375.1	1314.3	1248.8	1244.1	1234.7	1248.8
45°	9391.5	7801.3	3278.6	1431.2	1356.3	1286.2	1206.7	1173.9	1169.3	1159.9	1169.3
47.5°	10177.3	8035.2	2820.3	1379.7	1290.9	1230.1	1145.9	1099.1	1094.4	1089.8	1089.8
50°	11262.4	8755.5	2436.7	1318.9	1248.8	1164.6	1085.1	1033.6	1024.3	1005.6	1005.6
52.5°	12964.8	9966.8	2207.6	1286.2	1173.9	1103.8	1019.6	963.5	940.1	921.4	921.4
55°	14882.4	11468.1	2165.5	1230.1	1094.4	1029.0	954.1	898.0	874.6	851.2	841.9
57.5°	17066.6	13455.9	2464.8	1192.6	1038.3	954.1	869.9	818.5	799.8	776.4	767.0
60°	19101.1	15439.0	3395.5	1136.5	986.9	884.0	799.8	748.3	724.9	701.6	701.6
62.5°	21453.7	17894.4	4971.7	1136.5	940.1	809.1	724.9	687.5	673.5	650.1	645.4
65°	24236.5	20434.1	6122.3	1206.7	926.1	743.7	654.8	617.4	603.3	589.3	584.6
67.5°	26355.2	21893.3	5266.4	1393.8	986.9	687.5	584.6	561.2	551.9	537.9	528.5
70°	26579.7	21004.7	3175.7	1506.0	1047.7	631.4	523.8	500.4	500.4	486.4	477.1
72.5°	24563.9	18638.1	2137.4	1342.3	949.4	565.9	463.0	444.3	435.0	425.6	420.9
75°	20555.7	15808.5	1688.4	1071.0	729.6	467.7	402.2	383.5	369.5	364.8	355.5
77.5°	13806.7	10275.5	1248.8	837.2	537.9	378.8	336.7	318.0	304.0	299.3	285.3
80°	5303.8	3914.7	804.5	608.0	378.8	299.3	266.6	247.9	238.5	224.5	215.1
82.5°	1562.1	1267.5	449.0	374.2	243.2	205.8	191.8	177.7	163.7	149.7	145.0
85°	645.4	580.0	275.9	196.4	149.7	121.6	112.2	98.2	84.2	74.8	65.5
87.5°	299.3	247.9	126.3	74.8	51.4	28.1	14.0	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)