

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: P480022

Luminaire Tested: **IFLD-L-SA8D-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480022  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-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**

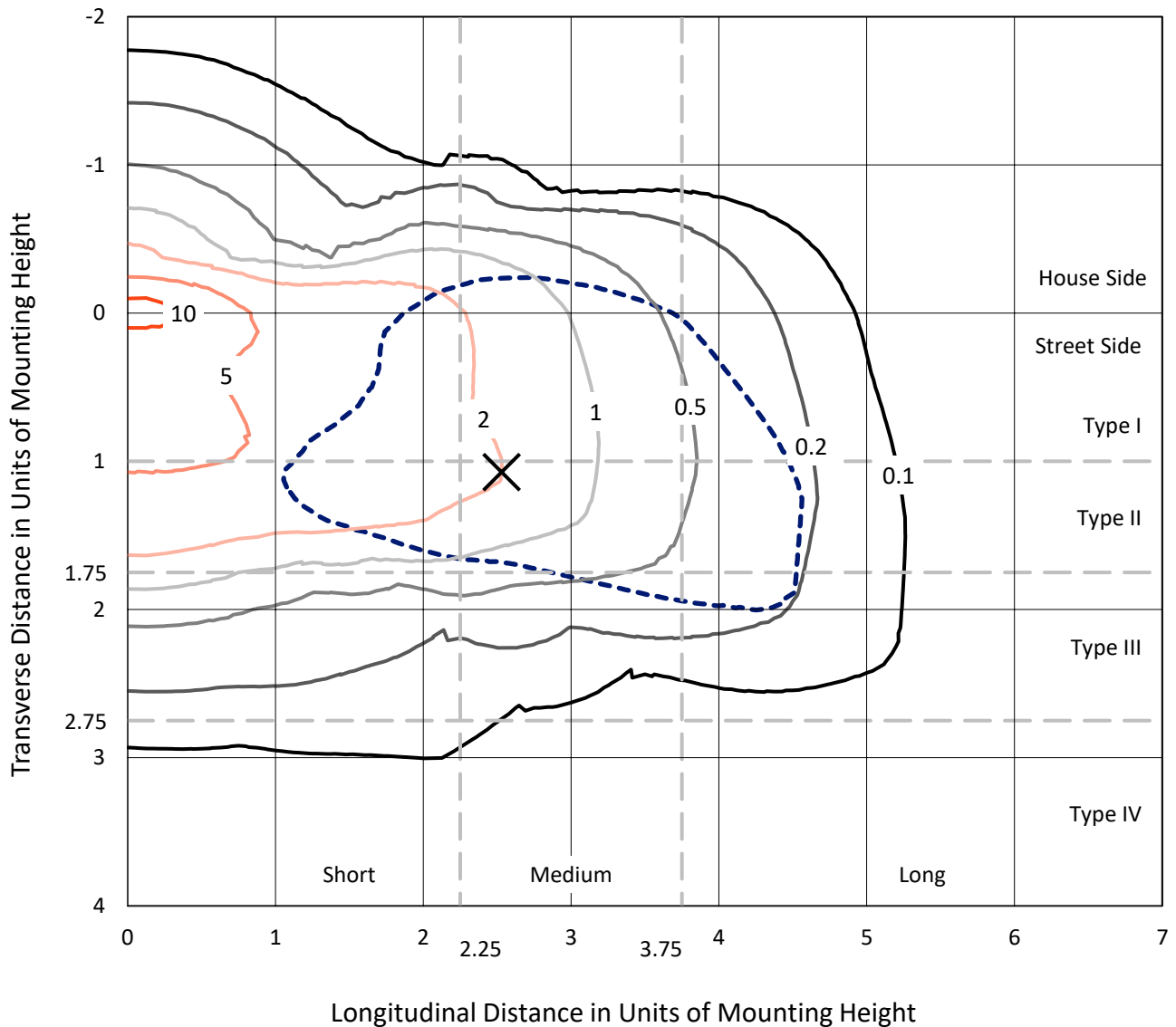
Lumens per Lamp: N/A  
Luminaire Lumens: 46484.6 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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: P480022  
 CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

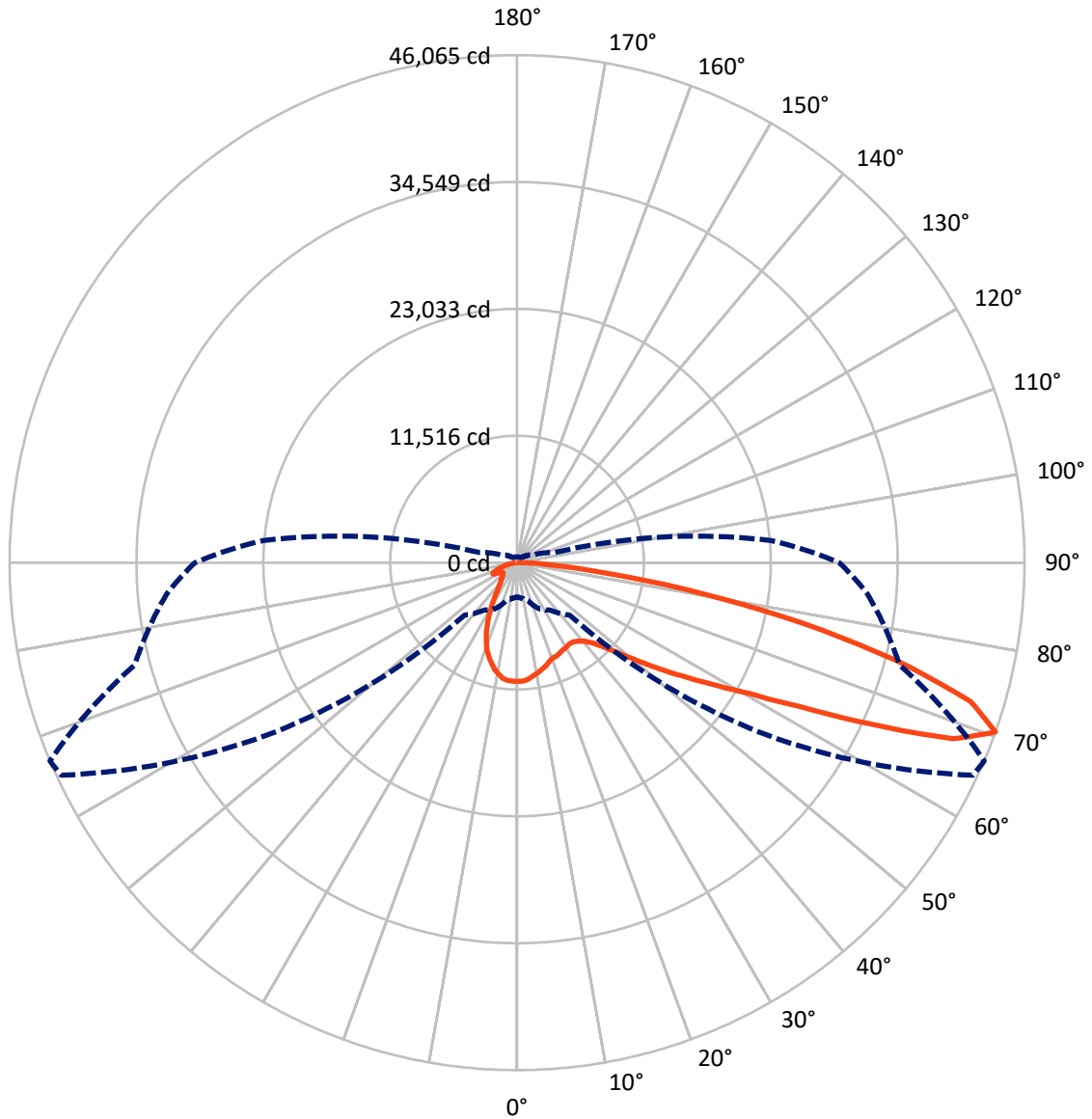
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480022  
CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480022  
 CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

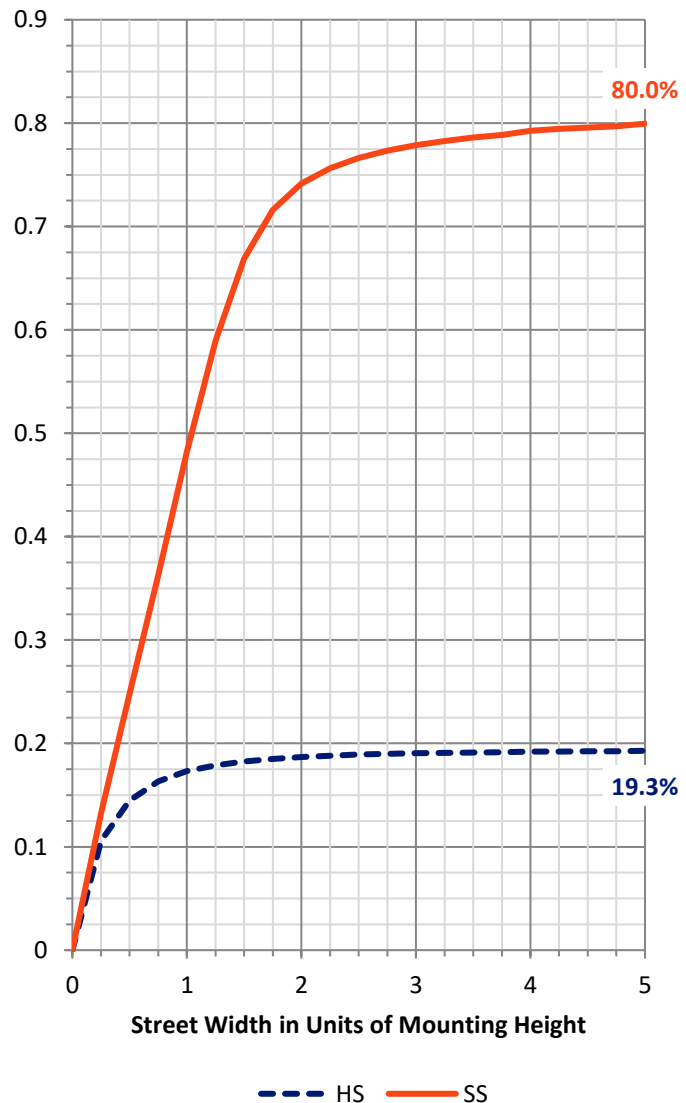
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9053.3	0.0	9053.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	37431.3	0.0	37431.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	46484.6	0.0	46484.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	938.9	2.0
10°-20°	2248.7	4.8
20°-30°	3036.7	6.5
30°-40°	4063.4	8.7
40°-50°	5975.1	12.9
50°-60°	9313.7	20.0
60°-70°	11472.9	24.7
70°-80°	8106.6	17.4
80°-90°	1328.7	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°	46484.6	100.0
0°-180°	46484.6	100.0

**Coefficient of Utilization**

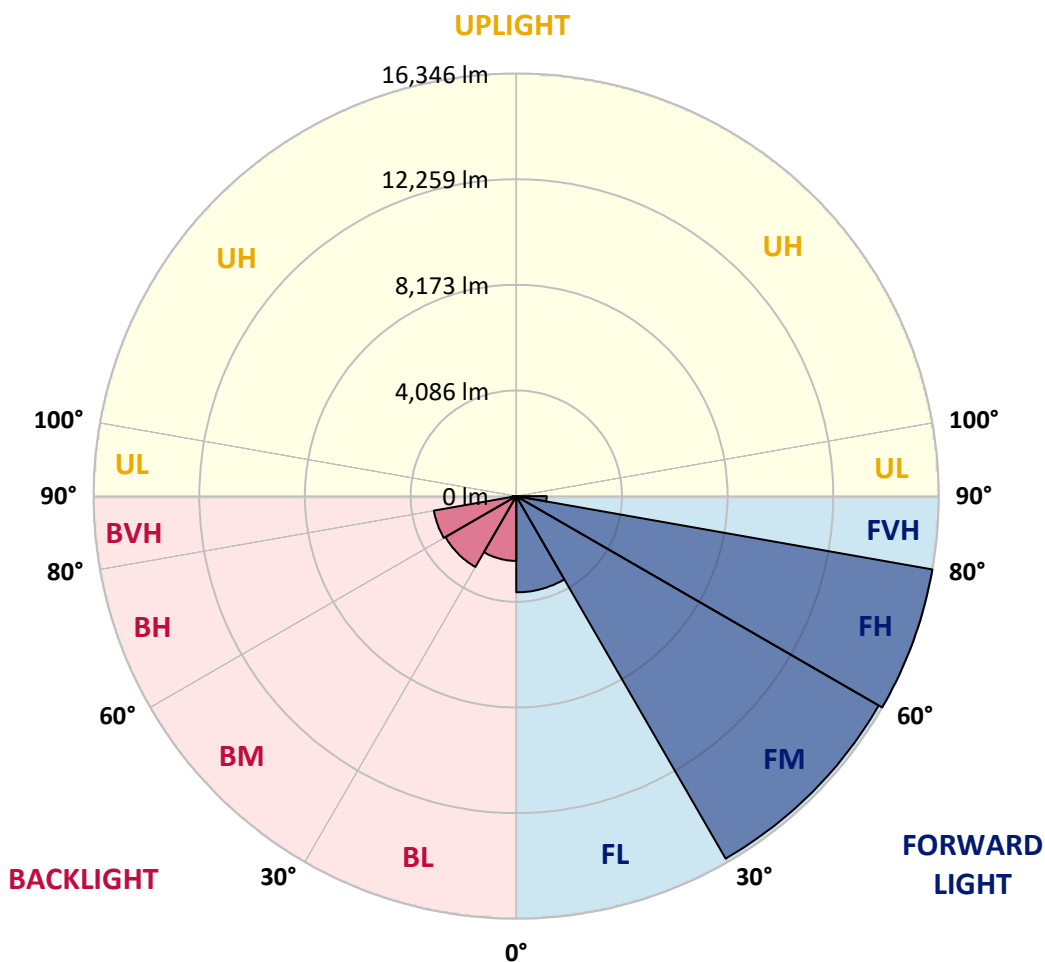


REPORT NUMBER: P480022  
 CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3720.7	8.0			
FM (30°-60°)	16189.6	34.8			
FH (60°-80°)	16345.5	35.2			G5
FVH (80°-90°)	1175.4	2.5			G5
BL (0°-30°)	2503.5	5.4	B4/5000		
BM (30°-60°)	3162.5	6.8	B3/5000		
BH (60°-80°)	3234.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	153.3	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: P480022

CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0
2.5°	10020.0	10133.2	10174.4	10236.1	10395.6	10514.0	10586.1	10668.4	10766.2	10848.5	10900.0
5°	9320.1	9381.8	9479.6	9546.5	9747.2	10066.3	10282.4	10632.4	10622.1	10750.7	10946.3
7.5°	8640.7	8702.5	8748.8	8882.6	9170.8	9459.0	9855.3	10421.4	10380.2	10678.7	10982.3
10°	8218.7	8172.4	8187.9	8414.3	8640.7	8965.0	9464.2	10040.5	10189.8	10653.0	11085.3
12.5°	7822.5	7771.0	7894.5	8038.6	8316.5	8609.9	9206.8	9726.6	9953.1	10560.3	11131.6
15°	7575.4	7539.4	7693.8	7755.6	8084.9	8434.9	8856.9	9489.9	9736.9	10447.1	11059.5
17.5°	7436.5	7467.4	7524.0	7657.8	7868.8	8167.3	8630.4	9330.3	9438.4	10308.2	11044.1
20°	7462.2	7498.2	7503.4	7560.0	7704.1	7935.7	8409.1	9160.5	9232.6	10282.4	11085.3
22.5°	7668.1	7616.6	7637.2	7601.2	7642.3	7822.5	8239.3	8934.1	9212.0	10066.3	10997.8
25°	7976.9	7904.8	7894.5	7771.0	7693.8	7745.3	8208.4	8877.5	9057.6	9999.4	10992.6
27.5°	8522.4	8414.3	8414.3	8229.0	7915.1	7832.8	8121.0	8784.8	8944.4	9937.6	10874.3
30°	9047.3	9047.3	9052.4	8790.0	8440.0	8033.5	8157.0	8748.8	8851.7	9752.3	10714.7
32.5°	9685.4	9670.0	9644.3	9515.6	8975.2	8368.0	8332.0	8702.5	8754.0	9690.6	10668.4
35°	10308.2	10267.0	10467.7	10354.5	9803.8	9021.6	8512.1	8723.1	8836.3	9598.0	10524.3
37.5°	10776.5	10802.2	11219.1	11291.1	10817.6	9762.6	9021.6	8928.9	9037.0	9731.8	10524.3
40°	11383.7	11486.7	11877.8	12119.7	11831.5	10740.5	9829.5	9273.7	9350.9	10030.3	10750.7
42.5°	12181.4	12268.9	12768.1	13082.0	12999.7	11985.9	10627.2	9994.2	9932.5	10529.4	11090.4
45°	13236.4	13251.9	13756.2	14188.5	14358.3	13287.9	11893.2	10905.1	10853.7	11388.9	11713.1
47.5°	14492.1	14476.7	14790.6	15253.8	15711.8	14842.1	13349.7	12289.5	12104.2	12618.9	12747.5
50°	15706.7	15639.8	15711.8	16303.7	17183.7	16787.4	15120.0	13982.7	13797.4	14080.4	14301.7
52.5°	16375.7	16458.1	16262.5	17044.7	18748.2	19087.8	17466.7	16005.2	15845.6	15984.6	16370.6
55°	15907.4	16077.2	15948.6	16689.6	19432.6	21892.6	20503.1	18346.8	18140.9	18089.4	18722.5
57.5°	13915.8	14224.5	14250.3	15423.6	19195.9	24064.4	24774.6	21110.4	20801.6	20276.7	20930.2
60°	10683.8	10992.6	11229.4	12618.9	17168.3	25361.3	29725.4	25042.2	24023.2	22664.6	23055.7
62.5°	7488.0	7699.0	7935.7	8790.0	13236.4	24599.6	34007.1	30579.7	28701.2	25181.1	25670.0
65°	5455.1	5619.8	5861.7	6366.0	8131.2	20353.8	35993.6	37156.7	35376.1	28382.2	28320.4
67.5°	4106.8	4209.7	4528.8	5336.8	5635.3	12572.6	33935.1	44104.3	42663.3	31938.3	30451.0
70°	3108.4	3195.9	3494.4	4600.8	5264.7	6741.7	26771.4	45653.3	46065.1	35926.7	31881.7
72.5°	2140.9	2238.7	2573.2	3834.0	5012.6	5347.1	16802.9	41474.5	43033.8	37568.4	30348.1
75°	1312.3	1379.2	1574.8	2907.7	4976.5	5228.7	9248.0	33986.6	35638.5	34712.2	26550.1
77.5°	926.3	921.2	957.2	1703.4	4312.6	5259.6	5702.2	24903.2	26508.9	25582.5	18017.4
80°	674.2	679.3	715.3	1019.0	2928.3	5347.1	4492.8	16679.3	17158.0	13339.4	7107.1
82.5°	406.6	427.1	514.6	689.6	1760.1	4827.3	4153.1	9268.6	8671.6	4281.8	1955.6
85°	216.1	216.1	303.6	437.4	936.6	3602.5	3998.7	4410.4	3695.1	1327.8	725.6
87.5°	51.5	51.5	87.5	175.0	375.7	1724.0	2727.6	1754.9	1405.0	447.7	298.5
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: P480022  
 CATALOG NUMBER: IFLD-L-SA8D-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0	10761.0
2.5°	10879.4	10817.6	10894.8	10740.5	10616.9	10622.1	10431.7	10421.4	10395.6	10261.8	10308.2
5°	11002.9	10951.5	10864.0	10694.1	10421.4	10148.6	9983.9	9772.9	9685.4	9639.1	9659.7
7.5°	11121.3	11028.6	10776.5	10539.7	10117.7	9603.1	9304.6	9021.6	8661.3	8620.2	8548.1
10°	11152.2	10956.6	10632.4	10128.0	9567.1	8995.8	8316.5	7791.6	7513.7	7297.5	7215.2
12.5°	11105.8	11023.5	10400.8	9752.3	8903.2	8007.7	7215.2	6474.1	5959.5	5691.9	5619.8
15°	11100.7	10956.6	10143.5	9181.1	8095.2	6927.0	5799.9	4909.6	4369.3	4148.0	4148.0
17.5°	11105.8	10761.0	9839.8	8604.7	7143.1	5563.2	4322.9	3592.2	3293.7	3262.8	3288.5
20°	11002.9	10616.9	9520.8	7925.4	5949.2	4178.8	3139.3	2840.8	2840.8	2882.0	2897.4
22.5°	10910.3	10400.8	9016.4	7086.5	4734.6	3026.1	2552.6	2465.1	2562.9	2634.9	2665.8
25°	10781.6	10220.7	8501.8	6216.8	3602.5	2439.4	2218.1	2238.7	2331.3	2460.0	2449.7
27.5°	10596.4	9906.7	7889.4	5208.1	2681.3	2104.9	2048.3	2058.5	2156.3	2212.9	2202.6
30°	10385.4	9587.7	7323.3	4204.6	2125.4	1929.9	1924.7	1950.5	1965.9	1996.8	1991.6
32.5°	10117.7	9165.7	6721.1	3267.9	1914.4	1832.1	1811.5	1796.1	1811.5	1806.4	1790.9
35°	9927.3	8939.2	6108.7	2490.8	1796.1	1744.6	1729.2	1703.4	1682.9	1652.0	1646.8
37.5°	9875.9	8712.8	5465.4	2032.8	1703.4	1677.7	1626.2	1579.9	1554.2	1538.8	1528.5
40°	9845.0	8563.5	4837.6	1785.8	1626.2	1600.5	1538.8	1477.0	1451.3	1435.8	1441.0
42.5°	9953.1	8481.2	4199.4	1662.3	1559.3	1513.0	1446.1	1374.1	1368.9	1358.6	1374.1
45°	10333.9	8584.1	3607.6	1574.8	1492.4	1415.2	1327.8	1291.7	1286.6	1276.3	1286.6
47.5°	11198.5	8841.4	3103.3	1518.2	1420.4	1353.5	1260.9	1209.4	1204.2	1199.1	1199.1
50°	12392.4	9634.0	2681.3	1451.3	1374.1	1281.4	1194.0	1137.3	1127.1	1106.5	1106.5
52.5°	14265.7	10966.9	2429.1	1415.2	1291.7	1214.5	1121.9	1060.1	1034.4	1013.8	1013.8
55°	16375.7	12618.9	2382.8	1353.5	1204.2	1132.2	1049.9	988.1	962.4	936.6	926.3
57.5°	18779.1	14806.1	2712.1	1312.3	1142.5	1049.9	957.2	900.6	880.0	854.3	844.0
60°	21017.7	16988.1	3736.3	1250.6	1085.9	972.7	880.0	823.4	797.7	772.0	772.0
62.5°	23606.3	19690.0	5470.6	1250.6	1034.4	890.3	797.7	756.5	741.1	715.3	710.2
65°	26668.4	22484.4	6736.6	1327.8	1019.0	818.3	720.5	679.3	663.9	648.4	643.3
67.5°	28999.7	24090.1	5794.8	1533.6	1085.9	756.5	643.3	617.6	607.3	591.8	581.5
70°	29246.8	23112.3	3494.4	1657.1	1152.8	694.8	576.4	550.7	550.7	535.2	524.9
72.5°	27028.7	20508.2	2351.9	1477.0	1044.7	622.7	509.5	488.9	478.6	468.3	463.2
75°	22618.2	17394.7	1857.8	1178.5	802.8	514.6	442.6	422.0	406.6	401.4	391.1
77.5°	15192.1	11306.5	1374.1	921.2	591.8	416.9	370.5	350.0	334.5	329.4	313.9
80°	5836.0	4307.5	885.2	669.0	416.9	329.4	293.3	272.8	262.5	247.0	236.7
82.5°	1718.9	1394.7	494.1	411.7	267.6	226.4	211.0	195.6	180.1	164.7	159.5
85°	710.2	638.1	303.6	216.1	164.7	133.8	123.5	108.1	92.6	82.3	72.0
87.5°	329.4	272.8	139.0	82.3	56.6	30.9	15.4	5.1	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)