

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: P721941

Luminaire Tested: **CST-CA8-430-760-U-T3**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-430-760-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

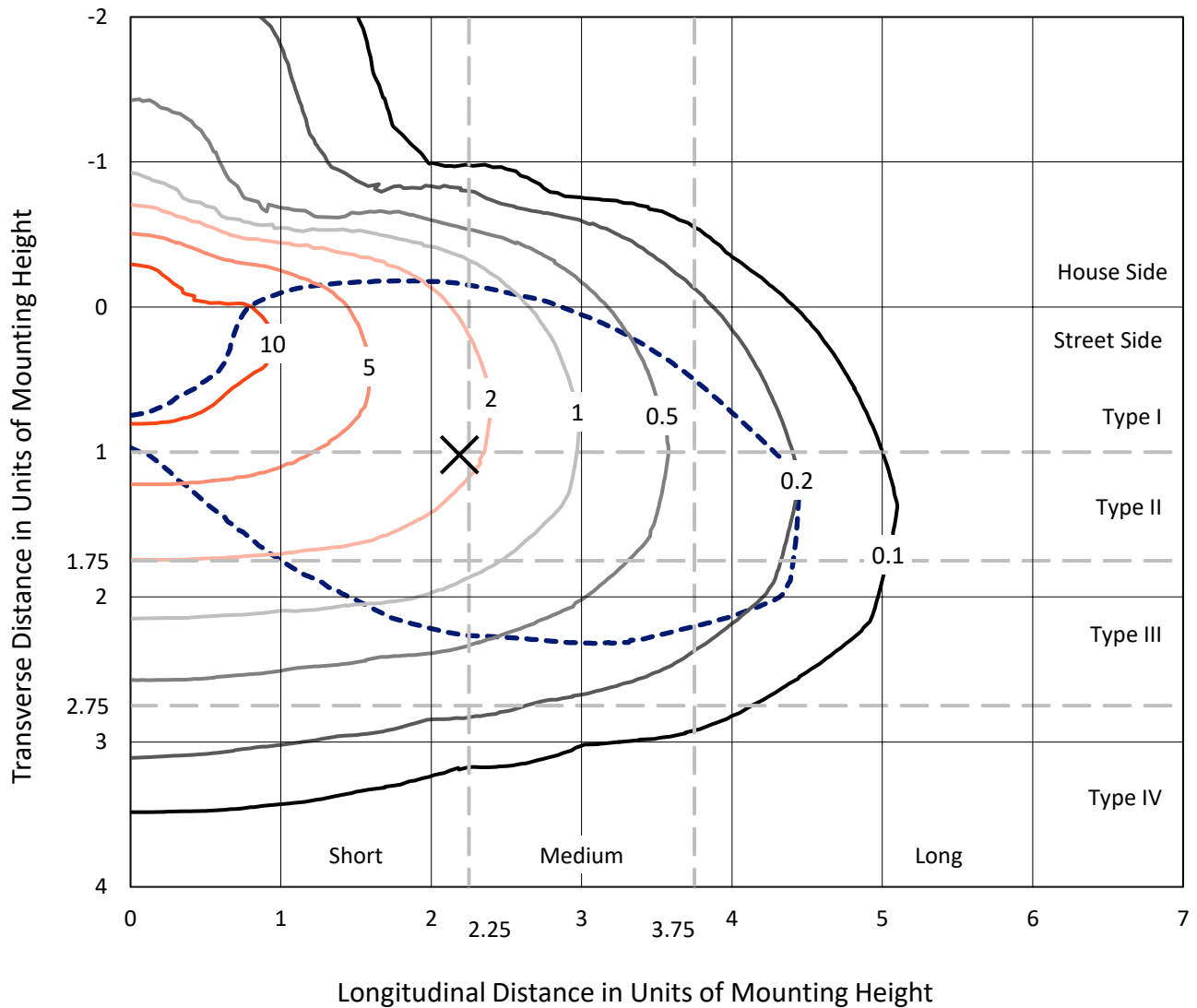
Lumens per Lamp: N/A  
Luminaire Lumens: 65132 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 434.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



REPORT NUMBER: P721941  
 CATALOG NUMBER: CST-CA8-430-760-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

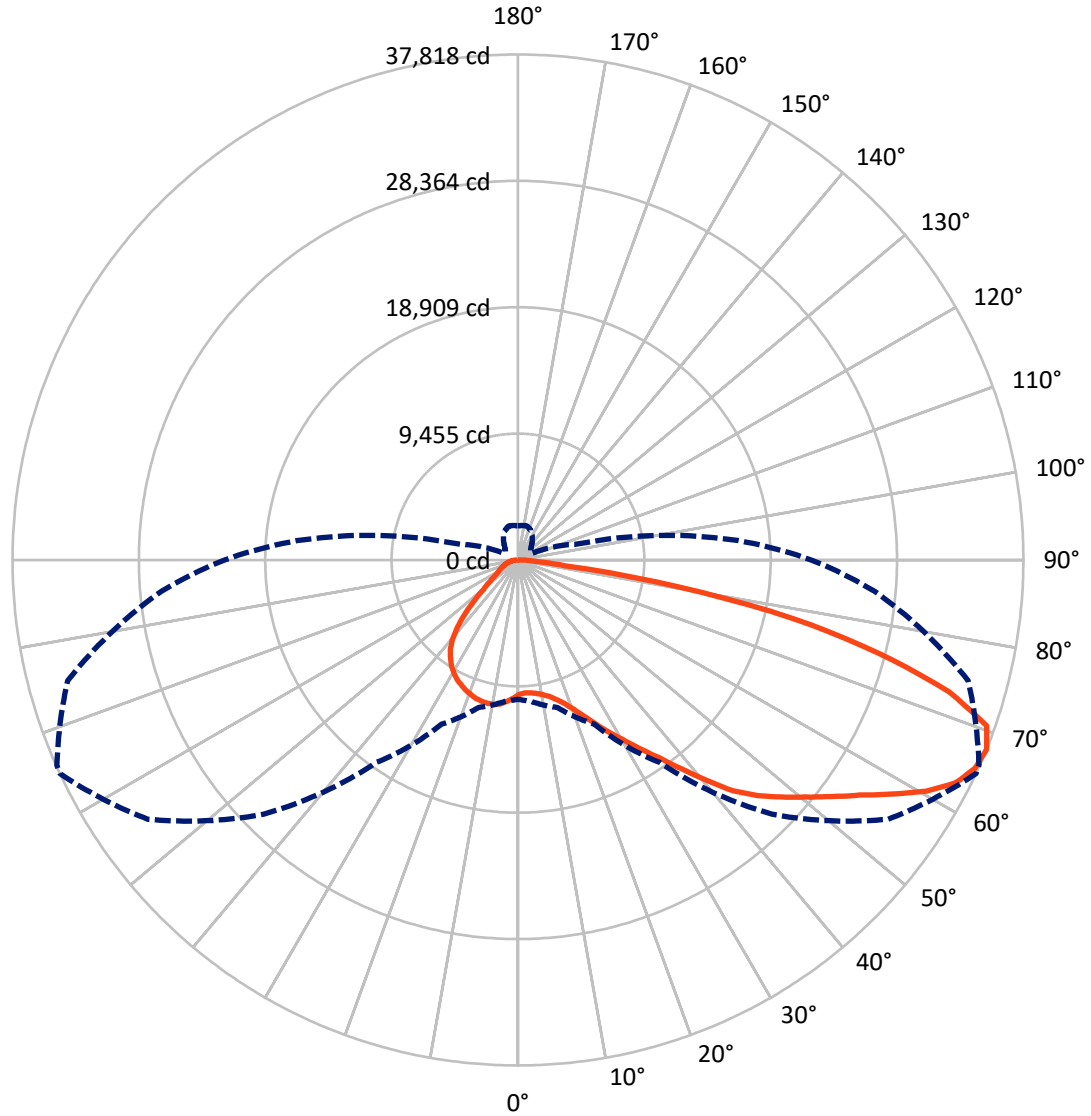
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P721941  
CATALOG NUMBER: CST-CA8-430-760-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P721941  
 CATALOG NUMBER: CST-CA8-430-760-U-T3

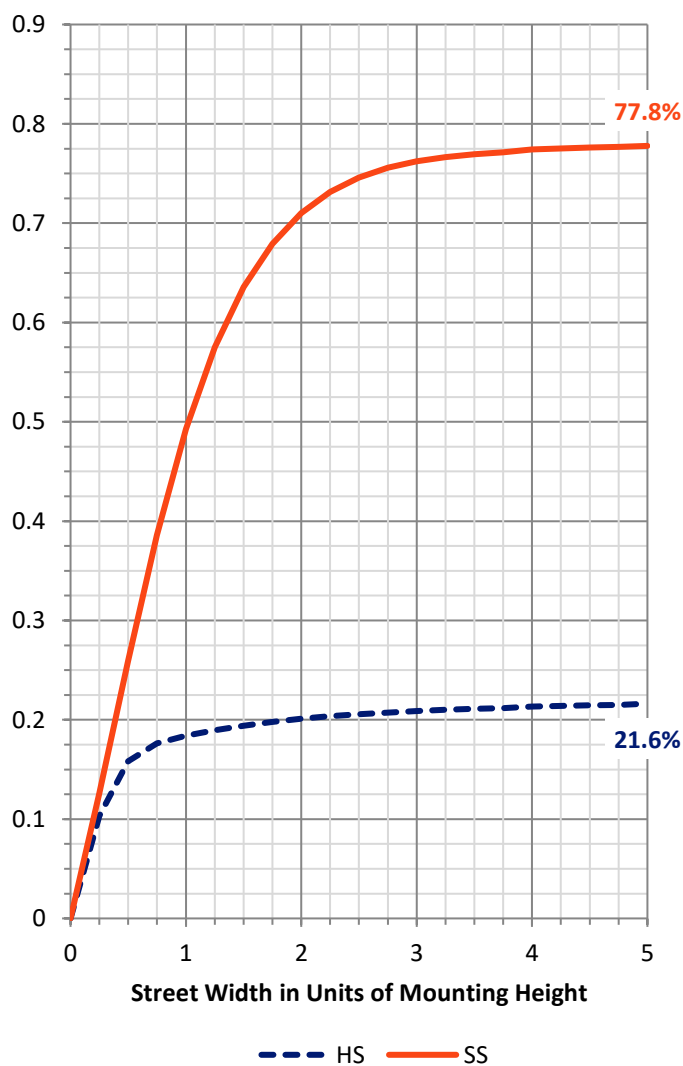
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14386.8	0.0	14386.8
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	50745.2	0.0	50745.2
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	65132.0	0.0	65132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.4	1.5
10°-20°	3131.7	4.8
20°-30°	5421.4	8.3
30°-40°	7966.2	12.2
40°-50°	10767.4	16.5
50°-60°	13240.6	20.3
60°-70°	14188.2	21.8
70°-80°	8368.0	12.8
80°-90°	1046.0	1.6
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°	65132.0	100.0
0°-180°	65132.0	100.0

**Coefficient of Utilization**



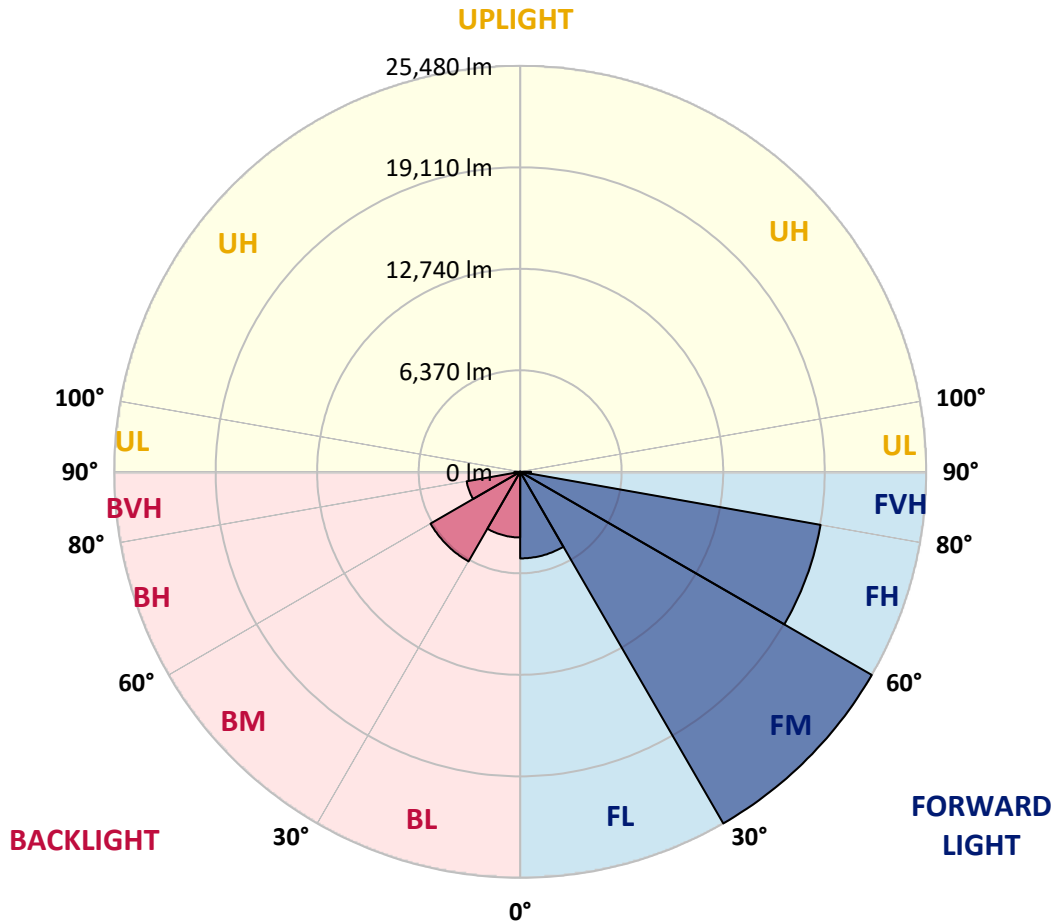
REPORT NUMBER: P721941  
 CATALOG NUMBER: CST-CA8-430-760-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5434.7	8.3			
FM (30°-60°)	25480.1	39.1			
FH (60°-80°)	19144.4	29.4			G5
FVH (80°-90°)	685.9	1.1			G4/750
BL (0°-30°)	4120.8	6.3	B4/5000		
BM (30°-60°)	6494.2	10.0	B4/8500		
BH (60°-80°)	3411.8	5.2	B4/5000		G4/5000
BVH (80°-90°)	360.1	0.6			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 III Short





REPORT NUMBER: P721941

CATALOG NUMBER: CST-CA8-430-760-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4
2.5°	9870.5	9851.9	9844.0	9869.2	9887.8	9909.0	9939.6	9968.8	9972.8	10011.3	10061.8
5°	9990.0	9974.1	9956.8	9952.9	9946.2	9944.9	9952.9	9986.1	9994.0	10031.2	10140.1
7.5°	10255.6	10239.7	10207.8	10195.9	10160.0	10096.3	10065.7	10083.0	10087.0	10132.1	10267.6
10°	10688.5	10639.4	10600.9	10561.1	10448.2	10347.3	10272.9	10241.0	10234.4	10278.2	10434.9
12.5°	11205.1	11163.9	11121.4	11016.5	10873.1	10691.2	10559.7	10486.7	10481.4	10518.6	10636.7
15°	11750.9	11750.9	11721.7	11596.8	11456.1	11154.6	10951.5	10829.3	10837.3	10866.5	10920.9
17.5°	12456.0	12397.6	12384.3	12242.2	12085.5	11810.6	11488.0	11292.7	11302.0	11315.3	11274.2
20°	13173.1	13155.8	13135.9	13041.6	12899.5	12546.3	12183.8	11927.5	11928.8	11881.0	11697.8
22.5°	14121.2	14064.1	14078.8	13972.5	13780.0	13417.4	13000.5	12696.4	12716.3	12647.2	12315.3
25°	15062.8	15005.6	14975.1	14903.4	14737.4	14393.5	13898.2	13619.3	13595.4	13470.6	12988.5
27.5°	16002.9	15969.7	15995.0	15908.6	15773.2	15389.4	14935.3	14625.9	14641.8	14555.5	13837.1
30°	16976.3	16939.1	17049.3	16909.9	16826.2	16453.1	16017.5	15653.7	15667.0	15698.8	14892.8
32.5°	17710.7	17754.5	17947.0	17931.1	17915.2	17499.5	17041.4	16839.5	16859.4	16971.0	16146.3
35°	18419.8	18423.8	18694.6	18899.2	18985.5	18637.5	18162.1	18155.5	18285.6	18625.6	17893.9
37.5°	19008.0	18994.8	19356.0	19673.3	19909.7	19640.1	19378.5	19786.2	19904.4	20609.5	19653.4
40°	19329.4	19357.3	19822.1	20217.8	20682.6	20555.1	20583.0	21625.4	21916.2	22533.7	20969.4
42.5°	19103.7	19188.6	19912.4	20719.7	21420.9	21590.9	22151.3	23612.0	23735.5	23847.0	22264.1
45°	18725.2	18814.2	19616.2	20920.3	22030.4	22748.8	23711.6	25140.4	25275.9	25151.1	23341.1
47.5°	18330.8	18422.4	19316.1	20839.3	22535.0	23912.1	25099.3	26492.3	26664.9	26278.5	24376.9
50°	17830.2	17972.3	18949.6	20668.0	22944.0	25167.0	26412.6	27883.9	27963.6	27405.9	25161.7
52.5°	17214.0	17370.7	18427.7	20374.5	23264.1	26043.4	27741.9	29393.8	29385.8	28723.2	26059.4
55°	16566.0	16708.1	17797.0	19912.4	23443.3	26718.0	28804.2	31057.7	31153.3	30598.2	26872.1
57.5°	15736.0	15864.8	17052.0	19290.9	23257.4	27290.4	30525.2	33035.0	33082.8	31903.6	27518.8
60°	14636.5	14826.4	16018.9	18500.8	22723.6	27953.0	32421.5	35114.5	35173.0	33187.7	27934.4
62.5°	13429.4	13505.1	14720.1	17284.4	21946.8	28464.3	33736.2	36741.3	36656.3	34191.6	28059.2
65°	11958.0	12017.8	13069.5	15720.1	20503.3	28184.1	34207.6	37577.9	37473.0	34822.4	27675.5
67.5°	10417.6	10602.2	11428.2	13550.2	18488.8	26890.7	33809.2	37818.2	37765.1	34870.2	26759.2
70°	8417.8	8482.8	9229.1	11039.1	15426.6	24301.2	32481.3	37202.1	37160.9	33802.5	24888.1
72.5°	5935.9	5872.1	6234.6	7654.2	11142.7	19330.7	27732.6	33740.1	33809.2	30238.4	21673.2
75°	3151.2	3273.4	3837.7	4686.3	6317.0	12426.8	22110.1	27923.8	27899.9	25285.2	17131.7
77.5°	1678.5	1675.9	2063.6	2426.1	3092.8	5710.1	14583.4	21058.4	21175.2	19591.0	11762.8
80°	806.1	836.6	860.5	986.7	1541.7	2638.6	6100.5	12211.7	13008.4	11684.5	5587.9
82.5°	645.4	648.0	650.7	622.8	637.4	1074.3	2350.4	3533.6	3661.1	2942.7	1802.0
85°	478.1	448.8	444.9	377.1	426.3	645.4	1185.8	1508.5	1434.2	1395.7	1017.2
87.5°	192.6	180.6	175.3	164.7	164.7	243.0	418.3	545.8	544.5	496.6	341.3
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: P721941

CATALOG NUMBER: CST-CA8-430-760-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4	10060.4
2.5°	10101.6	10149.4	10260.9	10356.6	10392.4	10480.1	10562.4	10610.2	10643.4	10663.3	10753.6
5°	10206.5	10302.1	10480.1	10614.2	10744.3	10906.3	11011.2	11077.6	11114.8	11136.1	11201.1
7.5°	10367.2	10464.1	10652.7	10858.5	10978.0	11110.8	11178.5	11226.4	11250.3	11243.6	11295.4
10°	10510.6	10606.2	10794.8	10952.8	11020.5	11096.2	11132.1	11142.7	11144.0	11149.3	11201.1
12.5°	10705.8	10764.2	10865.2	10968.7	10954.1	10956.8	10987.3	10974.0	10943.5	10938.2	10972.7
15°	10915.6	10916.9	10924.9	10902.3	10810.7	10770.9	10728.4	10692.5	10608.9	10603.5	10658.0
17.5°	11178.5	11116.1	10971.4	10817.3	10599.6	10449.5	10298.1	10235.7	10133.5	10113.5	10140.1
20°	11517.2	11387.0	11035.1	10652.7	10245.0	9976.8	9793.5	9608.9	9466.8	9432.3	9457.5
22.5°	12003.2	11746.9	11116.1	10477.4	9846.6	9388.5	9032.6	8810.8	8571.8	8449.6	8461.6
25°	12590.1	12189.1	11256.9	10255.6	9377.9	8716.6	8138.9	7694.0	7424.5	7245.2	7293.0
27.5°	13359.0	12807.9	11425.5	10036.5	8794.9	7857.4	7019.5	6416.6	6141.7	6056.7	6000.9
30°	14250.1	13555.5	11603.5	9712.5	8165.5	6793.7	5720.7	5218.8	4904.1	4853.6	4811.1
32.5°	15442.5	14497.1	11936.8	9360.6	7413.9	5730.0	4565.4	3987.8	3916.1	3874.9	3865.6
35°	16980.3	15730.7	12286.0	8903.8	6433.8	4483.1	3454.0	3141.9	3107.4	3152.5	3156.5
37.5°	18612.3	17069.3	12704.3	8388.6	5306.4	3345.1	2642.6	2426.1	2464.6	2605.4	2637.3
40°	19717.2	17951.0	13084.1	7688.7	3913.4	2430.1	1922.8	1876.4	2088.8	2269.4	2306.6
42.5°	20776.8	18619.0	13238.2	6763.2	2791.3	1730.3	1552.4	1711.7	2009.2	2207.0	2233.6
45°	21681.2	19395.8	12850.4	5653.0	1892.3	1446.1	1487.3	1707.7	2038.4	2257.5	2277.4
47.5°	22541.7	20030.6	12320.6	4453.9	1492.6	1391.7	1486.0	1743.6	2103.4	2310.6	2322.6
50°	23363.7	20513.9	11416.2	3388.9	1398.3	1366.4	1497.9	1799.4	2139.3	2269.4	2264.1
52.5°	23973.2	20763.6	10453.5	2735.5	1361.1	1346.5	1529.8	1869.7	2145.9	2224.3	2219.0
55°	24420.7	20715.8	9821.4	2240.2	1330.6	1338.6	1581.6	1922.8	2209.7	2327.9	2323.9
57.5°	24461.9	20499.3	9103.0	1892.3	1293.4	1337.2	1637.3	1997.2	2528.4	2746.2	2679.8
60°	24412.7	20140.8	8385.9	1661.2	1252.2	1345.2	1695.8	2220.3	2987.9	3159.2	3112.7
62.5°	24171.0	19472.8	7311.6	1508.5	1216.4	1374.4	1739.6	2396.9	2965.3	2985.2	2918.8
65°	23424.7	18579.1	5901.3	1354.5	1180.5	1394.3	1775.4	2443.4	2723.6	2659.9	2626.7
67.5°	21948.1	16583.2	4552.2	1213.7	1134.1	1390.3	1881.7	2377.0	2632.0	2585.5	2543.0
70°	19850.0	14315.1	3160.5	1069.0	1055.7	1365.1	1855.1	2399.6	2588.1	2516.4	2459.3
72.5°	16583.2	11230.3	2010.5	950.8	938.8	1305.4	1788.7	2385.0	2558.9	2527.1	2448.7
75°	12486.6	7838.8	1277.5	822.0	835.3	1196.5	1682.5	2306.6	2544.3	2444.7	2294.7
77.5°	7861.4	3869.6	993.3	698.5	718.4	1031.8	1454.1	2014.5	2442.1	2382.3	2189.8
80°	2973.2	1570.9	776.8	567.0	584.3	802.1	1192.5	1657.3	2248.2	2346.5	2264.1
82.5°	1369.1	982.7	583.0	455.5	462.1	584.3	889.7	1227.0	1902.9	2153.9	2359.7
85°	799.4	644.0	389.1	304.1	316.0	345.3	500.6	749.0	1233.7	1642.7	1837.9
87.5°	272.2	224.4	151.4	128.8	124.8	142.1	120.8	245.7	366.5	645.4	737.0
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)