

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: P721889

Luminaire Tested: **CST-CA8-430-722-U-T2**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-722-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52756 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

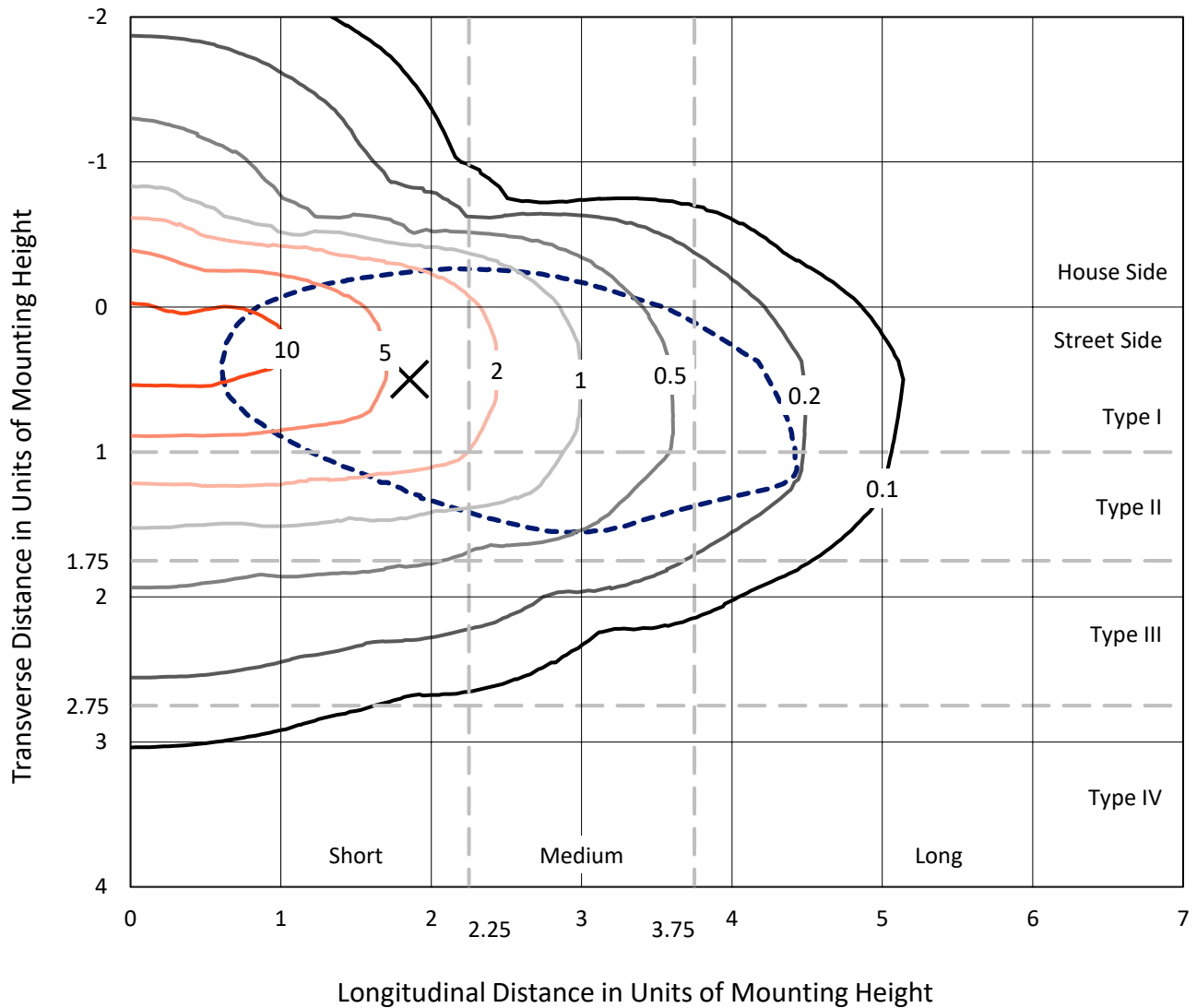
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

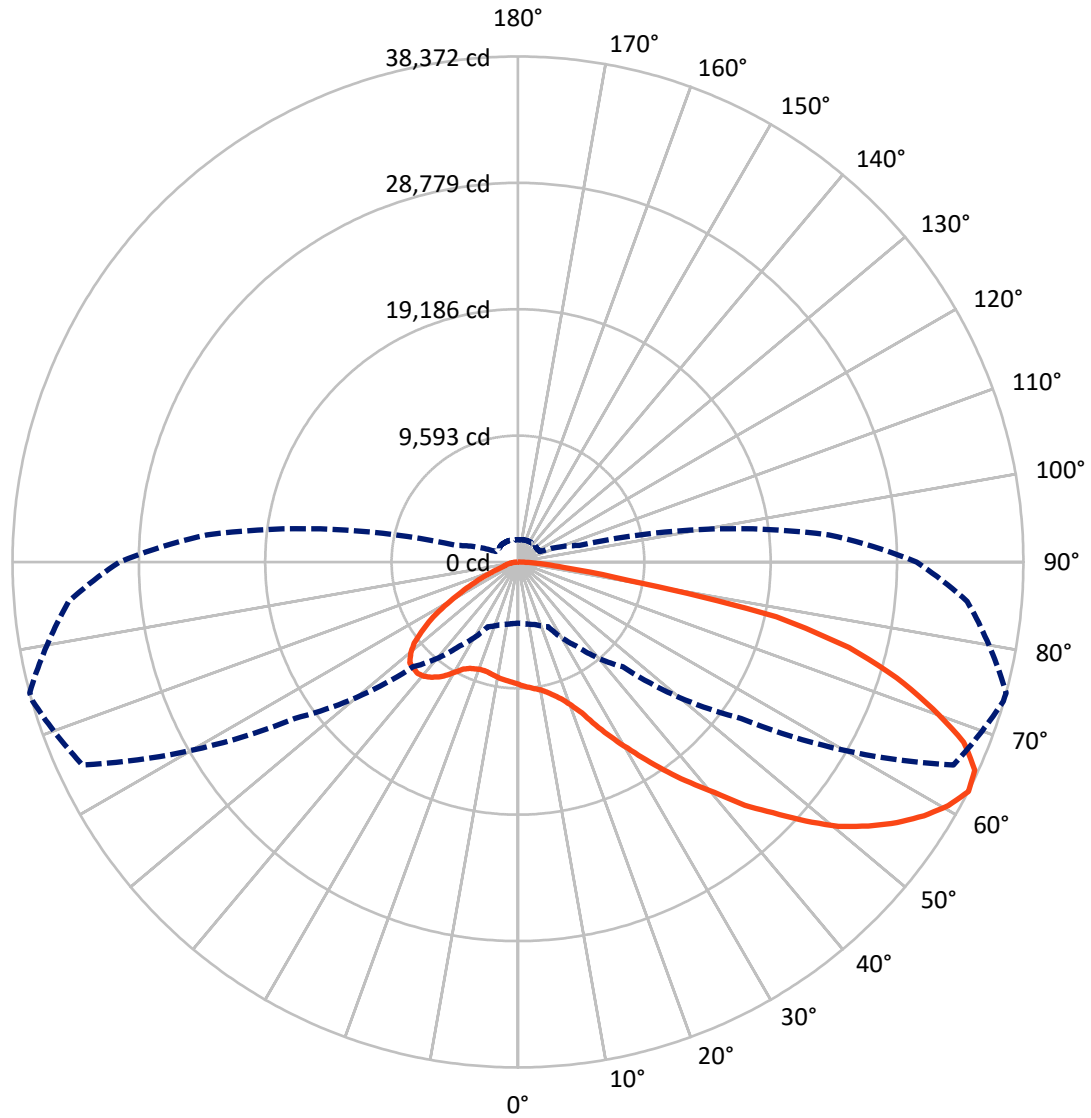
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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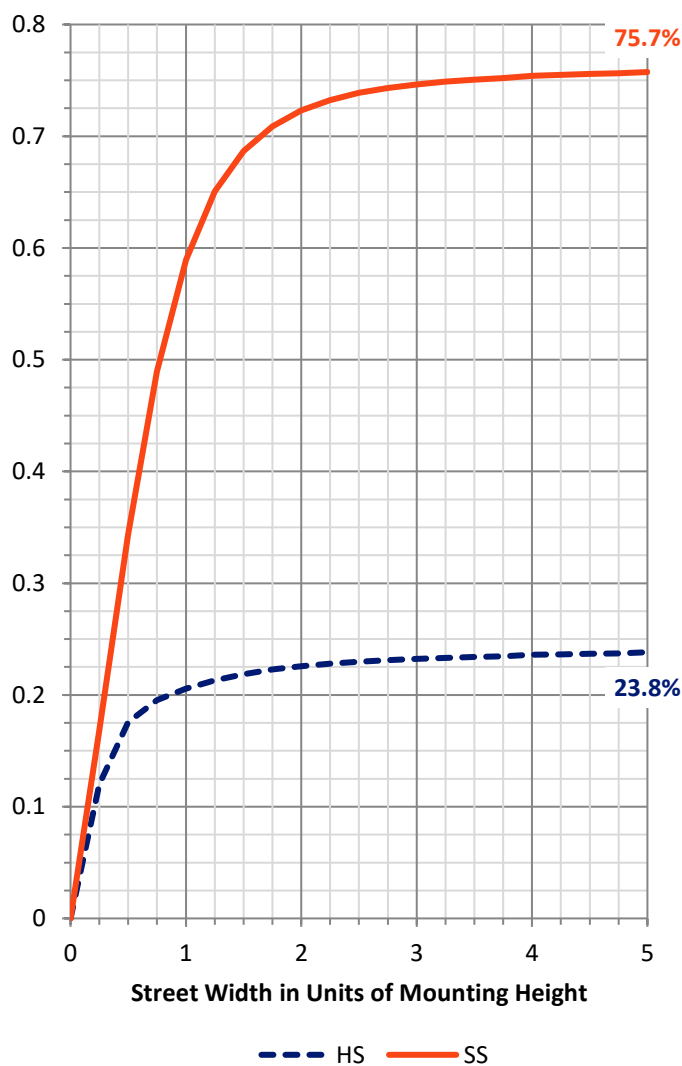
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12781.8	0.0	12781.8
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	39974.2	0.0	39974.2
	% Fixture	75.8	0.0	75.8
Total	Lumens	52756.0	0.0	52756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.7	1.7
10°-20°	2715.2	5.1
20°-30°	4683.1	8.9
30°-40°	6905.3	13.1
40°-50°	9102.7	17.3
50°-60°	10713.0	20.3
60°-70°	10658.4	20.2
70°-80°	6215.7	11.8
80°-90°	867.9	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°	52756.0	100.0
0°-180°	52756.0	100.0

Coefficient of Utilization

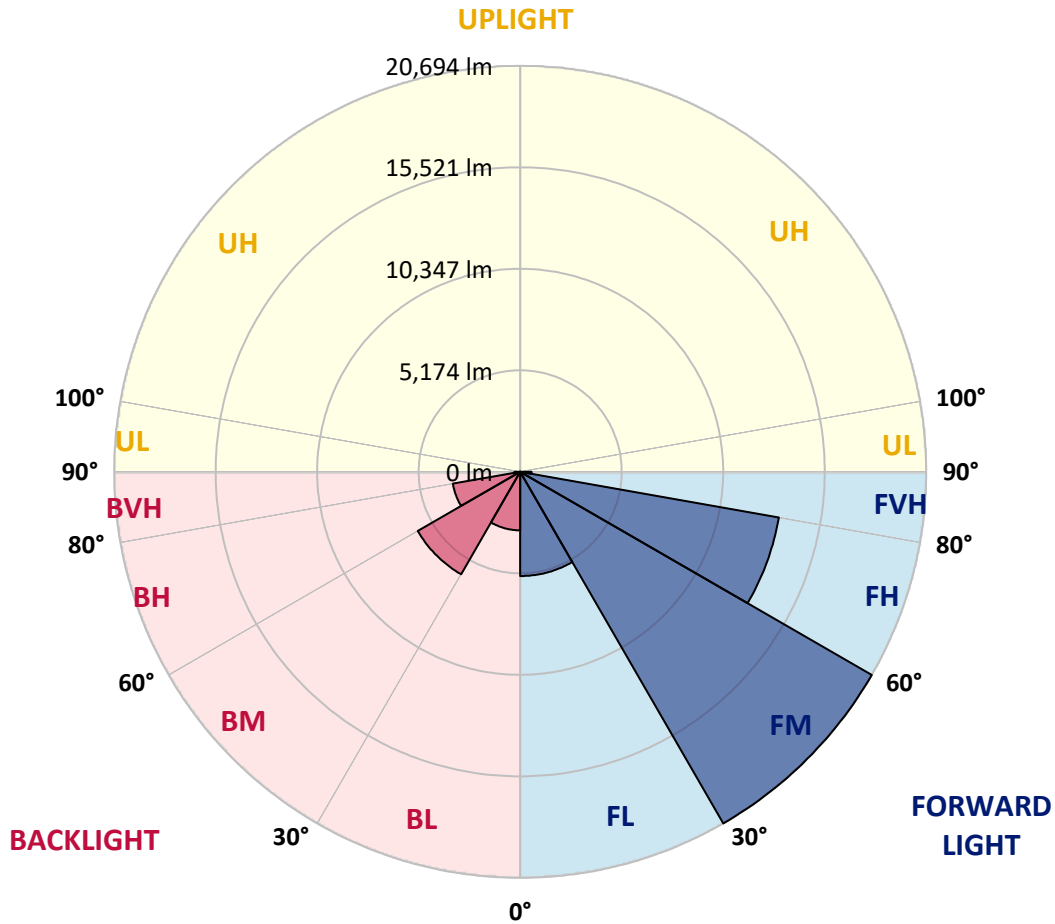


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5312.3	10.1			
FM (30°-60°)	20694.0	39.2			
FH (60°-80°)	13391.9	25.4			G5
FVH (80°-90°)	575.9	1.1			G4/750
BL (0°-30°)	2980.7	5.6	B4/5000		
BM (30°-60°)	6027.0	11.4	B4/8500		
BH (60°-80°)	3482.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	292.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7
2.5°	9808.9	9768.7	9774.2	9745.9	9703.6	9672.1	9589.6	9500.5	9447.3	9443.0	9367.0
5°	10301.9	10314.9	10318.1	10228.0	10139.0	10038.0	9912.1	9740.5	9600.4	9578.7	9431.1
7.5°	10751.4	10750.3	10743.8	10693.8	10652.6	10502.7	10250.8	9981.5	9753.5	9732.9	9492.9
10°	11211.7	11208.5	11143.3	11059.7	10966.3	10828.5	10612.4	10289.9	9920.7	9893.6	9550.5
12.5°	11713.4	11677.5	11636.3	11535.3	11424.5	11185.7	10958.7	10608.0	10222.6	10173.7	9652.6
15°	12127.0	12090.1	12032.6	11964.2	11848.0	11665.6	11424.5	11008.7	10595.0	10547.2	9881.7
17.5°	12536.4	12519.0	12477.7	12405.0	12316.0	12158.5	11937.0	11584.2	11042.3	10983.7	10262.8
20°	12871.9	12830.6	12800.2	12833.9	12841.5	12725.3	12603.7	12307.3	11710.1	11620.0	10730.7
22.5°	13063.0	13054.3	13220.4	13344.2	13394.1	13420.2	13382.2	13143.3	12602.6	12445.2	11382.2
25°	13244.3	13230.2	13456.0	13765.5	14059.7	14209.6	14310.5	14342.0	13845.8	13703.6	12430.0
27.5°	13249.7	13288.8	13616.7	14135.7	14584.2	15041.3	15525.5	15580.9	15145.5	15032.6	13622.2
30°	13279.0	13296.4	13621.1	14217.2	15150.9	15883.8	16514.7	16826.3	16450.6	16398.5	14934.9
32.5°	12906.6	12929.4	13434.3	14359.4	15578.7	16755.7	17592.8	18055.4	17962.0	17895.8	16335.5
35°	12519.0	12538.6	13124.9	14157.4	15896.9	17547.2	18566.8	19475.6	19646.0	19596.1	17897.9
37.5°	11911.0	11976.1	12590.7	13916.4	15952.2	18129.2	19496.2	20890.3	21405.0	21255.2	19550.5
40°	11250.8	11298.6	12014.1	13411.5	15890.3	18511.4	20409.3	22456.0	23079.3	22998.9	21191.1
42.5°	10416.9	10545.1	11261.7	12766.6	15572.2	18749.2	21254.1	24231.3	25136.8	25244.3	22698.2
45°	9714.4	9711.2	10376.8	11832.8	14995.7	18805.7	22031.5	26026.1	27350.7	27148.8	24690.6
47.5°	8888.2	8921.8	9616.7	10903.4	14145.5	18626.5	22637.4	28147.7	29488.6	29378.9	26324.7
50°	6976.1	7218.2	8534.2	10104.2	12995.7	18127.0	23142.2	30213.9	31494.0	31544.0	27810.0
52.5°	6014.1	6107.5	6833.9	9299.7	11975.0	17288.8	23696.0	32538.6	33432.2	33305.1	29496.2
55°	5628.7	5678.6	6027.1	7854.5	10988.1	15991.3	23962.0	34661.3	34943.6	34922.9	30883.8
57.5°	5349.6	5387.6	5635.2	6554.8	9904.5	14325.7	23737.3	36042.4	36481.0	36346.4	32193.3
60°	4946.8	4977.2	5346.4	5906.6	8789.4	12643.9	22355.1	36668.9	37596.1	37546.2	33350.7
62.5°	4643.9	4696.0	4902.3	5427.8	7837.1	11258.4	20707.9	36473.4	38327.9	38372.4	34234.5
65°	4323.6	4370.3	4545.1	5004.3	6973.9	10347.5	18931.6	35494.0	37991.3	38109.7	34377.9
67.5°	3928.3	3964.2	4171.6	4568.9	5965.3	9436.5	16928.3	33762.2	36123.8	36504.9	32951.2
70°	3431.1	3444.1	3698.2	3968.5	4953.3	8063.0	13460.4	30927.3	33421.3	33428.9	30257.3
72.5°	2730.7	2741.6	2808.9	3014.1	3721.0	6381.1	9893.6	25841.5	30135.7	30080.4	26891.4
75°	1856.7	1952.2	2185.7	2381.1	2684.0	4481.0	6153.1	17410.4	25532.0	25966.4	22089.0
77.5°	1466.9	1475.6	1572.2	1751.4	2013.0	3347.4	3448.4	9633.0	19034.8	20067.3	17362.7
80°	1022.8	1038.0	985.9	1029.3	1403.9	2291.0	2015.2	4192.2	7938.1	8475.6	10424.5
82.5°	487.5	504.9	579.8	538.5	698.2	973.9	1064.1	2166.1	3428.9	3519.0	4058.6
85°	321.4	321.4	322.5	305.1	407.2	424.5	483.2	924.0	1674.3	1730.7	1721.0
87.5°	103.1	114.0	110.7	129.2	156.4	141.2	147.7	289.9	574.4	568.9	475.6
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°	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7	9299.7
2.5°	9312.7	9268.2	9164.0	9072.8	8982.6	8914.2	8855.6	8777.4	8740.5	8706.8	8777.4
5°	9339.9	9260.6	9073.8	8887.1	8715.5	8589.6	8512.5	8456.0	8405.0	8405.0	8428.9
7.5°	9371.3	9263.8	8996.7	8731.8	8474.5	8331.2	8221.5	8149.8	8108.6	8110.8	8161.8
10°	9392.0	9226.9	8908.8	8551.6	8271.4	8041.3	7933.8	7830.6	7752.4	7705.8	7757.9
12.5°	9415.9	9215.0	8790.4	8387.6	8046.7	7786.1	7562.4	7485.3	7409.3	7350.7	7378.9
15°	9563.5	9260.6	8691.6	8179.2	7783.9	7459.3	7166.1	7025.0	7003.3	6963.1	6972.9
17.5°	9804.6	9383.3	8627.6	7924.0	7468.0	7084.7	6713.4	6530.9	6487.5	6466.9	6477.7
20°	10164.0	9616.7	8647.1	7744.8	7111.8	6683.0	6203.0	5989.1	5844.7	5853.4	5895.8
22.5°	10713.4	9993.5	8753.5	7548.3	6726.4	6164.0	5679.7	5388.7	5243.2	5211.7	5259.5
25°	11588.5	10600.4	8870.8	7360.5	6354.0	5603.7	5067.3	4752.4	4565.7	4553.7	4607.0
27.5°	12710.1	11530.9	9126.0	7197.6	5891.4	4930.5	4397.4	4128.1	3929.4	3905.5	3888.2
30°	13857.8	12564.6	9587.4	6950.1	5351.8	4235.6	3772.0	3561.3	3338.8	3248.6	3268.2
32.5°	15073.8	13527.7	10128.1	6776.3	4748.1	3624.3	3221.5	3020.6	2816.5	2686.2	2655.8
35°	16298.6	14485.3	10583.1	6516.8	4175.9	3139.0	2753.5	2546.1	2368.1	2261.7	2254.1
37.5°	17731.8	15482.1	10947.9	6241.0	3582.0	2759.0	2295.3	2175.9	2090.1	1996.7	2006.5
40°	19167.2	16643.9	11240.0	5785.0	3089.0	2350.7	1953.3	1977.2	1995.7	1917.5	1911.0
42.5°	20359.4	17620.0	11373.5	5194.4	2652.6	1995.7	1802.4	1911.0	1991.3	1940.3	1933.8
45°	21570.0	18441.9	11321.4	4461.5	2289.9	1826.3	1790.4	1901.2	2004.3	1992.4	1987.0
47.5°	22886.0	19519.0	11231.3	3626.5	2030.4	1810.0	1816.5	1868.6	1998.9	2020.6	2011.9
50°	24495.1	20510.3	10698.2	2824.1	1904.5	1836.0	1875.1	1848.0	1958.7	2003.3	2010.9
52.5°	26096.6	21273.6	9984.8	2447.3	1854.5	1861.0	1956.6	1864.3	1913.1	1952.2	1988.1
55°	27332.3	22051.0	8830.6	2220.4	1838.2	1873.0	1979.4	1899.0	1897.9	1897.9	1909.9
57.5°	28597.2	23092.3	7676.4	2073.8	1810.0	1886.0	1952.2	1905.5	1890.3	1868.6	1854.5
60°	29477.8	23477.8	6193.3	1977.2	1780.7	1867.5	1876.2	1869.7	1823.0	1802.4	1786.1
62.5°	30259.5	23687.3	4821.9	1866.5	1740.5	1824.1	1778.5	1764.4	1737.2	1687.3	1696.0
65°	30050.0	23237.8	3674.3	1741.6	1712.3	1772.0	1692.7	1659.1	1661.2	1609.1	1626.5
67.5°	28701.4	21221.5	2638.4	1550.5	1635.2	1668.8	1595.0	1570.0	1533.1	1507.1	1530.9
70°	25977.2	18812.2	1779.6	1286.6	1459.3	1532.0	1483.2	1439.7	1382.2	1364.8	1390.9
72.5°	21864.3	15703.6	1228.0	1034.7	1259.5	1354.0	1335.5	1291.0	1249.7	1292.1	1343.1
75°	17962.0	11617.8	1002.2	848.0	968.5	1128.1	1182.4	1195.4	1319.2	1731.8	1774.2
77.5°	12929.4	7202.0	901.2	689.5	773.1	902.3	1010.9	1055.4	1611.3	1542.9	1539.6
80°	7538.5	4197.6	687.3	544.0	625.4	661.2	790.4	1238.9	1389.8	1192.2	1162.9
82.5°	3439.7	1852.3	478.8	435.4	434.3	437.6	538.5	1192.2	1066.2	939.2	904.5
85°	1264.9	651.5	291.0	251.9	288.8	250.8	352.9	874.1	617.8	608.0	507.1
87.5°	311.6	133.6	98.8	82.5	67.3	64.1	107.5	287.7	150.9	137.9	132.5
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)