

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: P510779

Luminaire Tested: **CST-CA8-330-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-730-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48160 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

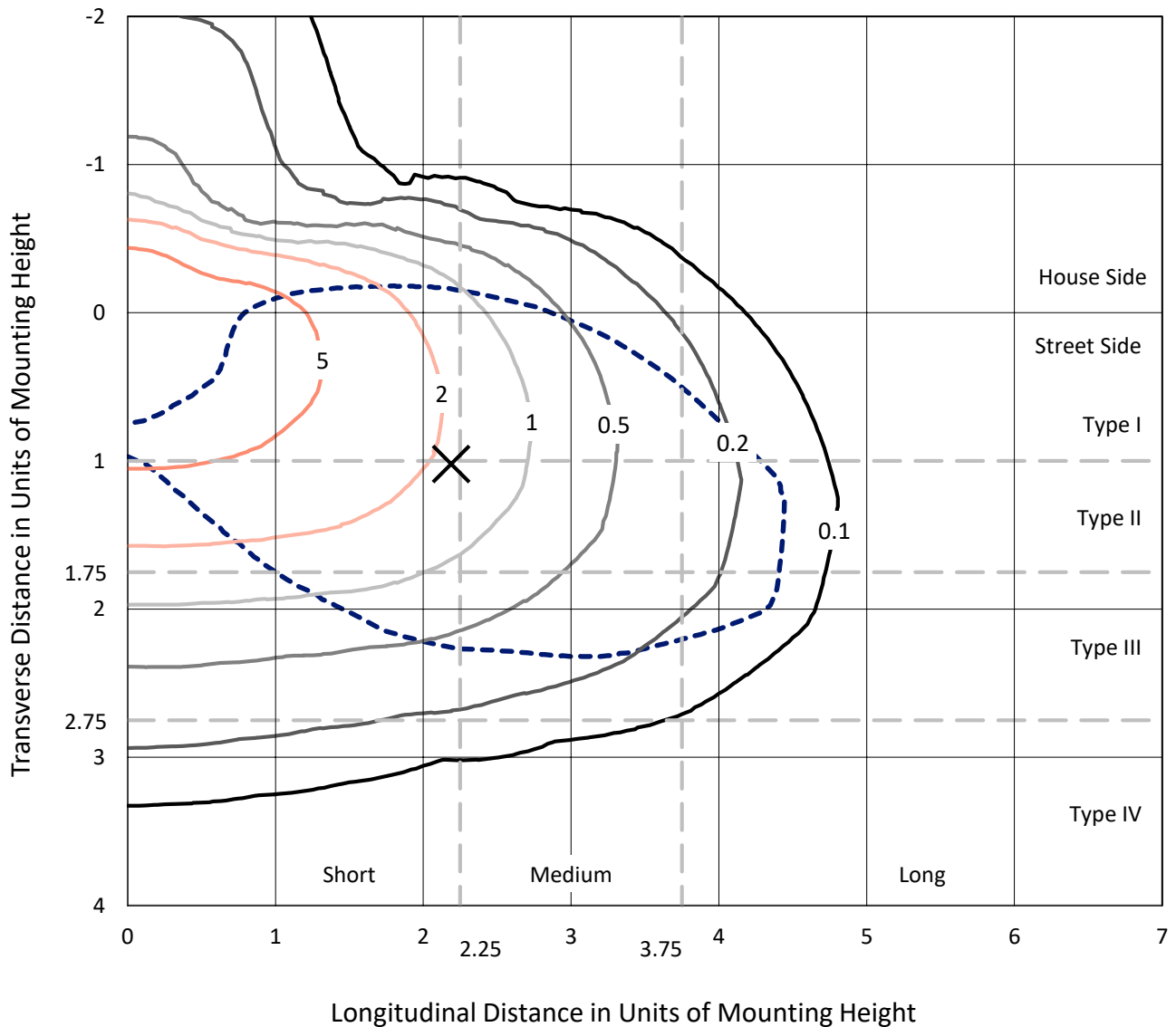
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

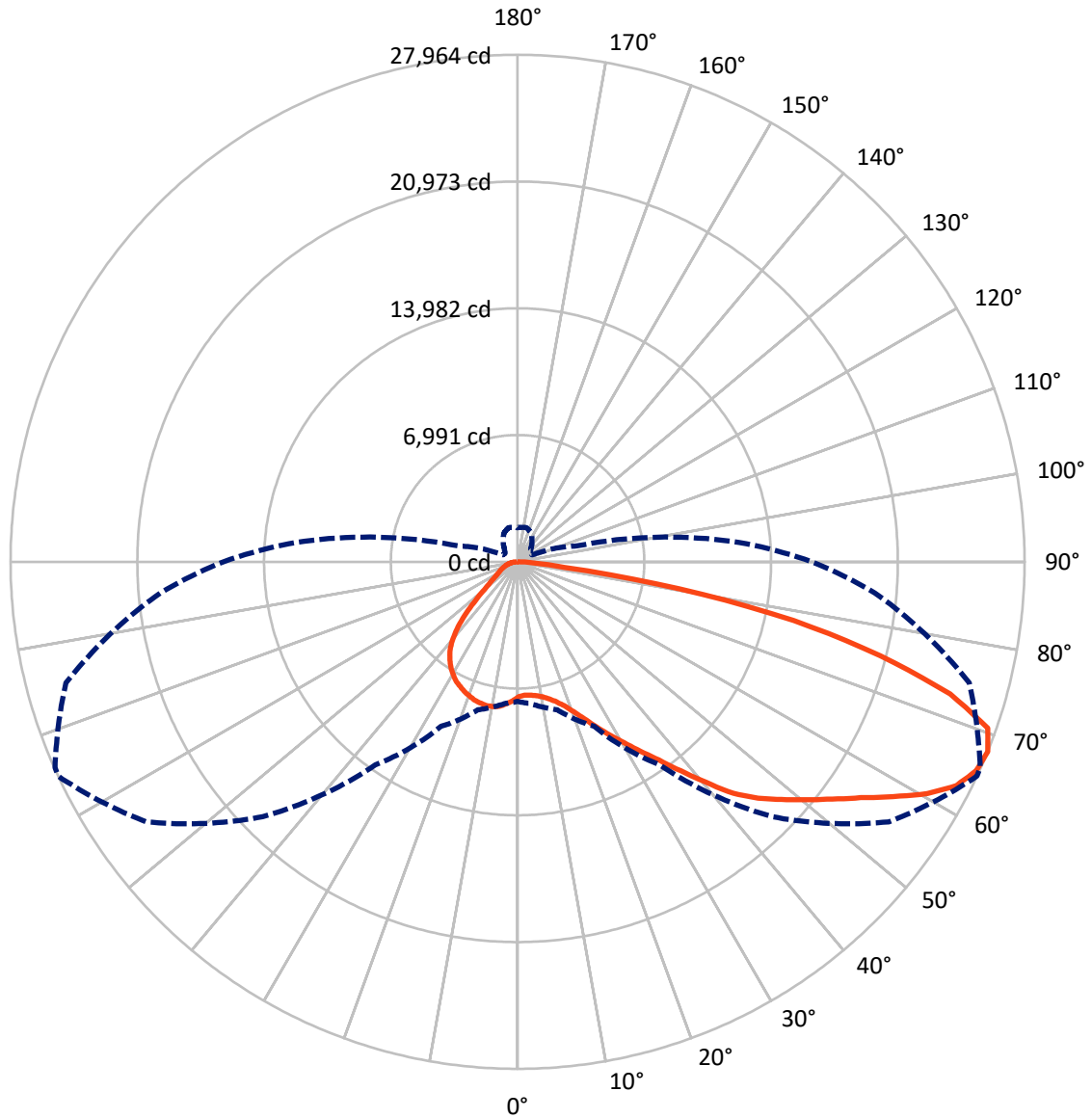
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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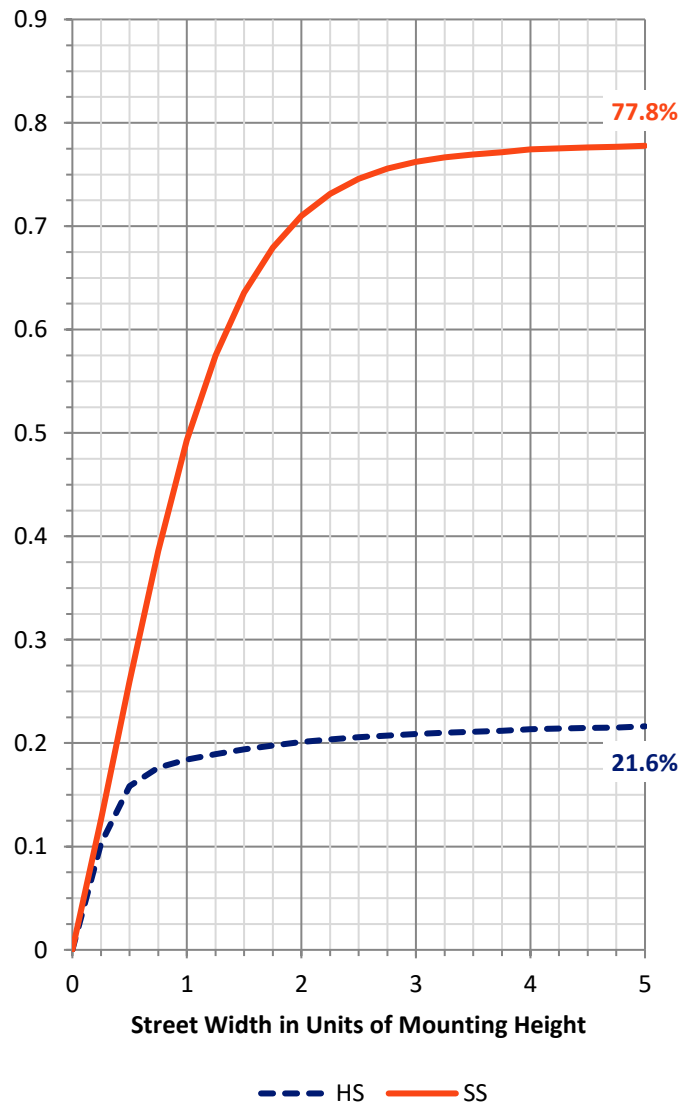
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10637.9	0.0	10637.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	37522.1	0.0	37522.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	48160.0	0.0	48160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	1.5
10°-20°	2315.7	4.8
20°-30°	4008.7	8.3
30°-40°	5890.4	12.2
40°-50°	7961.6	16.5
50°-60°	9790.4	20.3
60°-70°	10491.1	21.8
70°-80°	6187.5	12.8
80°-90°	773.4	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°	48160.0	100.0
0°-180°	48160.0	100.0

Coefficient of Utilization

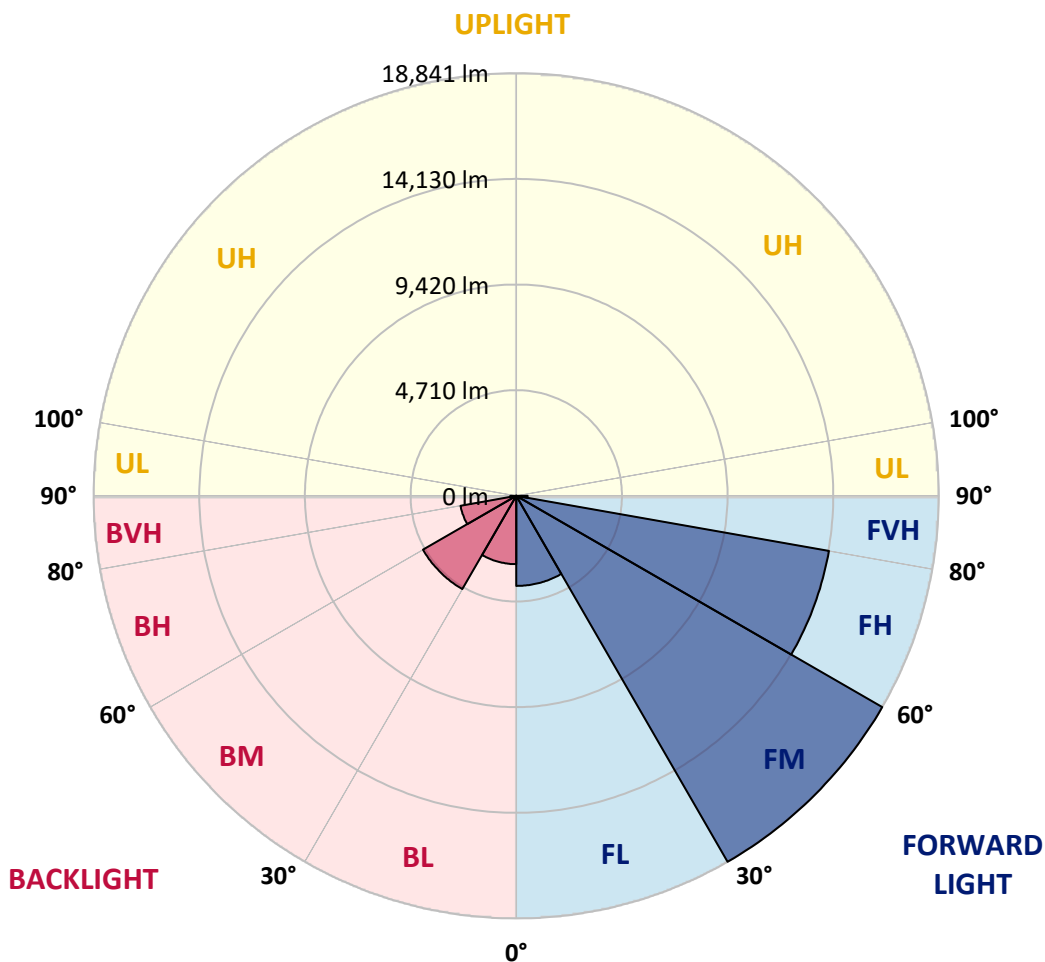


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4018.6	8.3			
FM (30°-60°)	18840.5	39.1			
FH (60°-80°)	14155.8	29.4			G5
FVH (80°-90°)	507.2	1.1			G4/750
BL (0°-30°)	3047.0	6.3	B4/5000		
BM (30°-60°)	4801.9	10.0	B3/5000		
BH (60°-80°)	2522.8	5.2	B4/5000		G4/5000
BVH (80°-90°)	266.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9
2.5°	7298.5	7284.7	7278.8	7297.5	7311.2	7327.0	7349.5	7371.1	7374.1	7402.6	7439.9
5°	7386.9	7375.1	7362.3	7359.4	7354.5	7353.5	7359.4	7383.9	7389.8	7417.3	7497.8
7.5°	7583.2	7571.5	7547.9	7539.0	7512.5	7465.4	7442.8	7455.6	7458.5	7491.9	7592.1
10°	7903.3	7867.0	7838.5	7809.1	7725.6	7651.0	7596.0	7572.4	7567.5	7599.9	7715.8
12.5°	8285.3	8254.9	8223.4	8145.9	8039.8	7905.3	7808.1	7754.1	7750.2	7777.7	7865.0
15°	8688.9	8688.9	8667.3	8575.0	8470.9	8248.0	8097.8	8007.4	8013.3	8034.9	8075.2
17.5°	9210.2	9167.0	9157.2	9052.2	8936.3	8733.0	8494.4	8350.1	8357.0	8366.8	8336.4
20°	9740.5	9727.7	9713.0	9643.3	9538.2	9277.0	9009.0	8819.4	8820.4	8785.1	8649.6
22.5°	10441.6	10399.3	10410.1	10331.6	10189.2	9921.1	9612.8	9388.0	9402.7	9351.6	9106.2
25°	11137.7	11095.5	11072.9	11019.9	10897.2	10642.8	10276.6	10070.4	10052.7	9960.4	9604.0
27.5°	11832.9	11808.4	11827.0	11763.2	11663.0	11379.3	11043.5	10814.7	10826.5	10762.6	10231.4
30°	12552.6	12525.1	12606.6	12503.5	12441.7	12165.8	11843.7	11574.7	11584.5	11608.1	11012.0
32.5°	13095.6	13128.0	13270.4	13258.6	13246.8	12939.5	12600.8	12451.5	12466.2	12548.7	11939.0
35°	13620.0	13622.9	13823.2	13974.4	14038.3	13781.0	13429.5	13424.6	13520.8	13772.2	13231.1
37.5°	14055.0	14045.1	14312.2	14546.9	14721.7	14522.3	14328.9	14630.3	14717.7	15239.1	14532.2
40°	14292.6	14313.2	14656.9	14949.5	15293.1	15198.9	15219.5	15990.3	16205.3	16661.9	15505.2
42.5°	14125.7	14188.5	14723.6	15320.6	15839.1	15964.8	16379.1	17459.2	17550.5	17633.0	16462.6
45°	13845.8	13911.6	14504.7	15468.9	16289.8	16821.0	17532.9	18589.4	18689.5	18597.2	17258.9
47.5°	13554.2	13621.9	14282.8	15409.0	16662.9	17681.1	18558.9	19589.0	19716.6	19430.9	18024.8
50°	13184.0	13289.1	14011.8	15282.3	16965.3	18609.0	19530.0	20618.0	20676.9	20264.5	18605.1
52.5°	12728.4	12844.3	13625.9	15065.3	17202.0	19257.1	20512.9	21734.4	21728.5	21238.6	19268.9
55°	12249.2	12354.3	13159.5	14723.6	17334.5	19755.9	21298.4	22964.7	23035.4	22625.0	19869.8
57.5°	11635.5	11730.8	12608.6	14264.1	17197.0	20179.1	22571.0	24426.8	24462.1	23590.2	20348.0
60°	10822.5	10962.9	11844.7	13679.9	16802.3	20669.1	23973.2	25964.5	26007.7	24539.7	20655.3
62.5°	9930.0	9985.9	10884.4	12780.4	16227.9	21047.1	24945.2	27167.3	27104.4	25282.0	20747.6
65°	8842.0	8886.2	9663.9	11623.8	15160.6	20839.9	25293.8	27785.9	27708.3	25748.4	20463.8
67.5°	7703.0	7839.5	8450.3	10019.3	13671.0	19883.5	24999.2	27963.6	27924.3	25783.8	19786.3
70°	6224.3	6272.4	6824.2	8162.6	11406.8	17968.8	24017.3	27508.0	27477.6	24994.3	18402.8
72.5°	4389.1	4342.0	4610.0	5659.7	8239.1	14293.6	20506.1	24948.2	24999.2	22358.9	16025.6
75°	2330.1	2420.4	2837.7	3465.1	4670.9	9188.6	16348.7	20647.4	20629.8	18696.4	12667.5
77.5°	1241.1	1239.2	1525.9	1793.9	2286.9	4222.2	10783.3	15571.0	15657.4	14486.0	8697.7
80°	596.0	618.6	636.3	729.6	1140.0	1951.0	4510.9	9029.6	9618.7	8639.8	4131.8
82.5°	477.2	479.2	481.1	460.5	471.3	794.4	1738.0	2612.8	2707.1	2175.9	1332.4
85°	353.5	331.9	328.9	278.9	315.2	477.2	876.8	1115.4	1060.5	1032.0	752.1
87.5°	142.4	133.5	129.6	121.8	121.8	179.7	309.3	403.6	402.6	367.2	252.3
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°	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9	7438.9
2.5°	7469.3	7504.7	7587.2	7657.9	7684.4	7749.2	7810.1	7845.4	7869.9	7884.7	7951.4
5°	7546.9	7617.6	7749.2	7848.3	7944.6	8064.4	8141.9	8191.0	8218.5	8234.2	8282.3
7.5°	7665.7	7737.4	7876.8	8029.0	8117.4	8215.6	8265.7	8301.0	8318.7	8313.8	8352.1
10°	7771.8	7842.5	7981.9	8098.7	8148.8	8204.8	8231.3	8239.1	8240.1	8244.1	8282.3
12.5°	7916.1	7959.3	8033.9	8110.5	8099.7	8101.7	8124.3	8114.4	8091.9	8087.9	8113.5
15°	8071.2	8072.2	8078.1	8061.4	7993.7	7964.2	7932.8	7906.3	7844.4	7840.5	7880.8
17.5°	8265.7	8219.5	8112.5	7998.6	7837.5	7726.6	7614.7	7568.5	7492.9	7478.2	7497.8
20°	8516.0	8419.8	8159.6	7876.8	7575.4	7377.0	7241.5	7105.0	7000.0	6974.5	6993.1
22.5°	8875.4	8685.9	8219.5	7747.2	7280.8	6942.1	6678.9	6514.9	6338.2	6247.8	6256.7
25°	9309.4	9012.9	8323.6	7583.2	6934.2	6445.2	6018.1	5689.1	5489.8	5357.3	5392.6
27.5°	9877.9	9470.5	8448.3	7421.2	6503.1	5809.9	5190.3	4744.6	4541.3	4478.5	4437.2
30°	10536.8	10023.3	8579.9	7181.6	6037.7	5023.4	4230.0	3858.9	3626.2	3588.9	3557.4
32.5°	11418.5	10719.4	8826.3	6921.4	5482.0	4236.9	3375.8	2948.7	2895.6	2865.2	2858.3
35°	12555.6	11631.6	9084.6	6583.7	4757.3	3314.9	2553.9	2323.2	2297.7	2331.0	2334.0
37.5°	13762.3	12621.4	9393.9	6202.7	3923.7	2473.4	1954.0	1793.9	1822.4	1926.5	1950.1
40°	14579.3	13273.4	9674.7	5685.2	2893.7	1796.9	1421.8	1387.4	1544.5	1678.1	1705.6
42.5°	15362.8	13767.3	9788.6	5000.8	2064.0	1279.4	1147.8	1265.7	1485.6	1631.9	1651.6
45°	16031.5	14341.7	9501.9	4180.0	1399.2	1069.3	1099.7	1262.7	1507.2	1669.2	1684.0
47.5°	16667.8	14811.0	9110.1	3293.3	1103.7	1029.0	1098.7	1289.2	1555.3	1708.5	1717.3
50°	17275.6	15168.4	8441.4	2505.8	1033.9	1010.4	1107.6	1330.5	1581.8	1678.1	1674.1
52.5°	17726.3	15353.0	7729.5	2022.7	1006.5	995.6	1131.2	1382.5	1586.8	1644.7	1640.8
55°	18057.2	15317.7	7262.2	1656.5	983.9	989.8	1169.4	1421.8	1633.9	1721.3	1718.3
57.5°	18087.6	15157.6	6730.9	1399.2	956.4	988.8	1210.7	1476.8	1869.5	2030.6	1981.5
60°	18051.3	14892.5	6200.7	1228.4	925.9	994.7	1253.9	1641.7	2209.3	2335.9	2301.6
62.5°	17872.6	14398.6	5406.4	1115.4	899.4	1016.3	1286.3	1772.3	2192.6	2207.3	2158.2
65°	17320.8	13737.8	4363.6	1001.5	872.9	1031.0	1312.8	1806.7	2013.9	1966.8	1942.2
67.5°	16228.9	12262.0	3366.0	897.5	838.5	1028.1	1391.4	1757.6	1946.1	1911.8	1880.3
70°	14677.5	10584.9	2336.9	790.4	780.6	1009.4	1371.7	1774.3	1913.7	1860.7	1818.5
72.5°	12262.0	8304.0	1486.6	703.0	694.2	965.2	1322.6	1763.5	1892.1	1868.6	1810.6
75°	9232.8	5796.2	944.6	607.8	617.6	884.7	1244.1	1705.6	1881.3	1807.7	1696.7
77.5°	5812.9	2861.3	734.5	516.5	531.2	762.9	1075.2	1489.5	1805.7	1761.5	1619.2
80°	2198.5	1161.6	574.4	419.3	432.0	593.1	881.7	1225.4	1662.4	1735.0	1674.1
82.5°	1012.3	726.6	431.1	336.8	341.7	432.0	657.9	907.3	1407.1	1592.6	1744.8
85°	591.1	476.2	287.7	224.9	233.7	255.3	370.2	553.8	912.2	1214.6	1359.0
87.5°	201.3	165.9	111.9	95.2	92.3	105.1	89.4	181.7	271.0	477.2	545.0
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)