

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: P721891

Luminaire Tested: **CST-CA8-430-722-U-T3**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721891
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-CA8-430-722-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53255 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

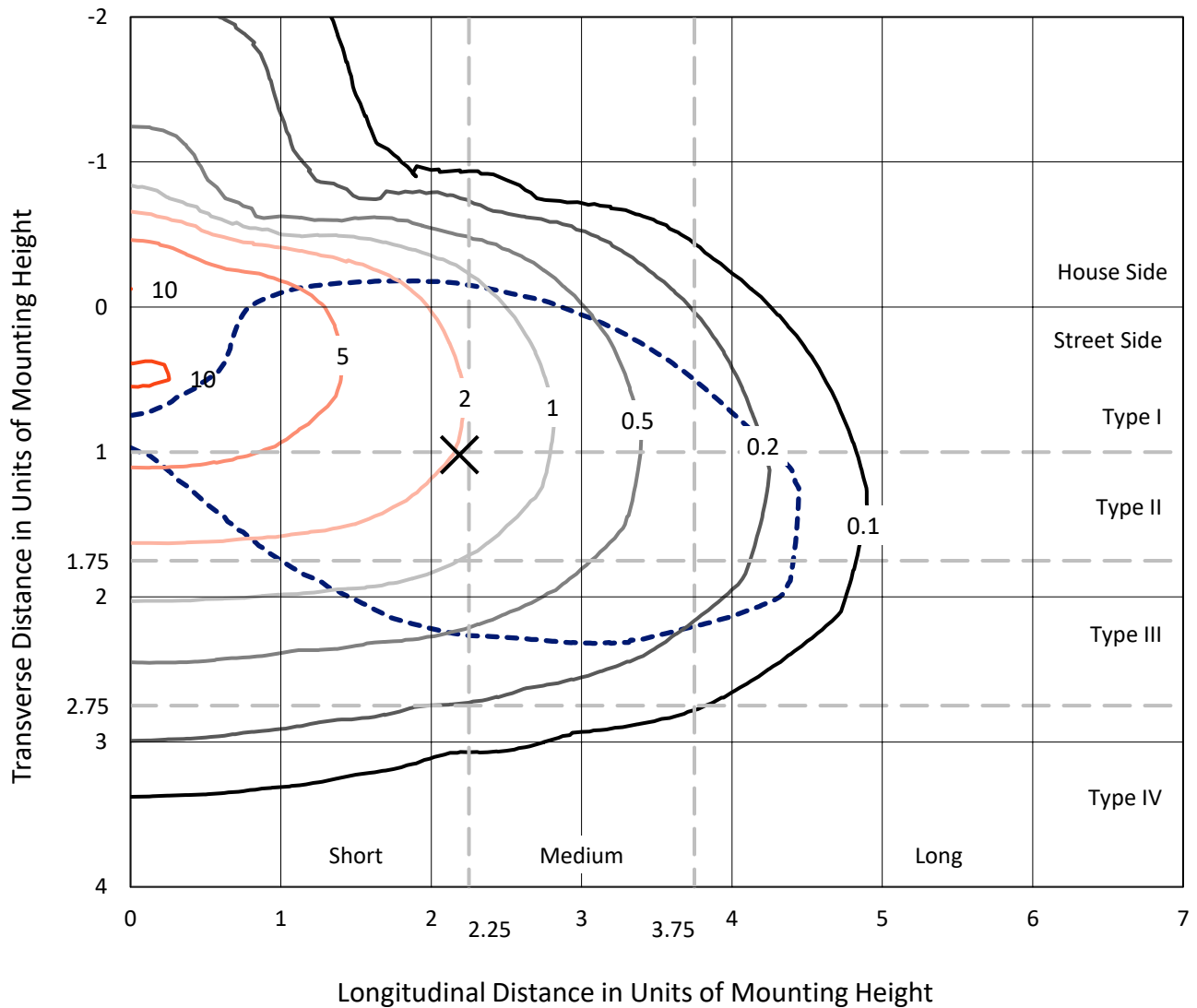
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

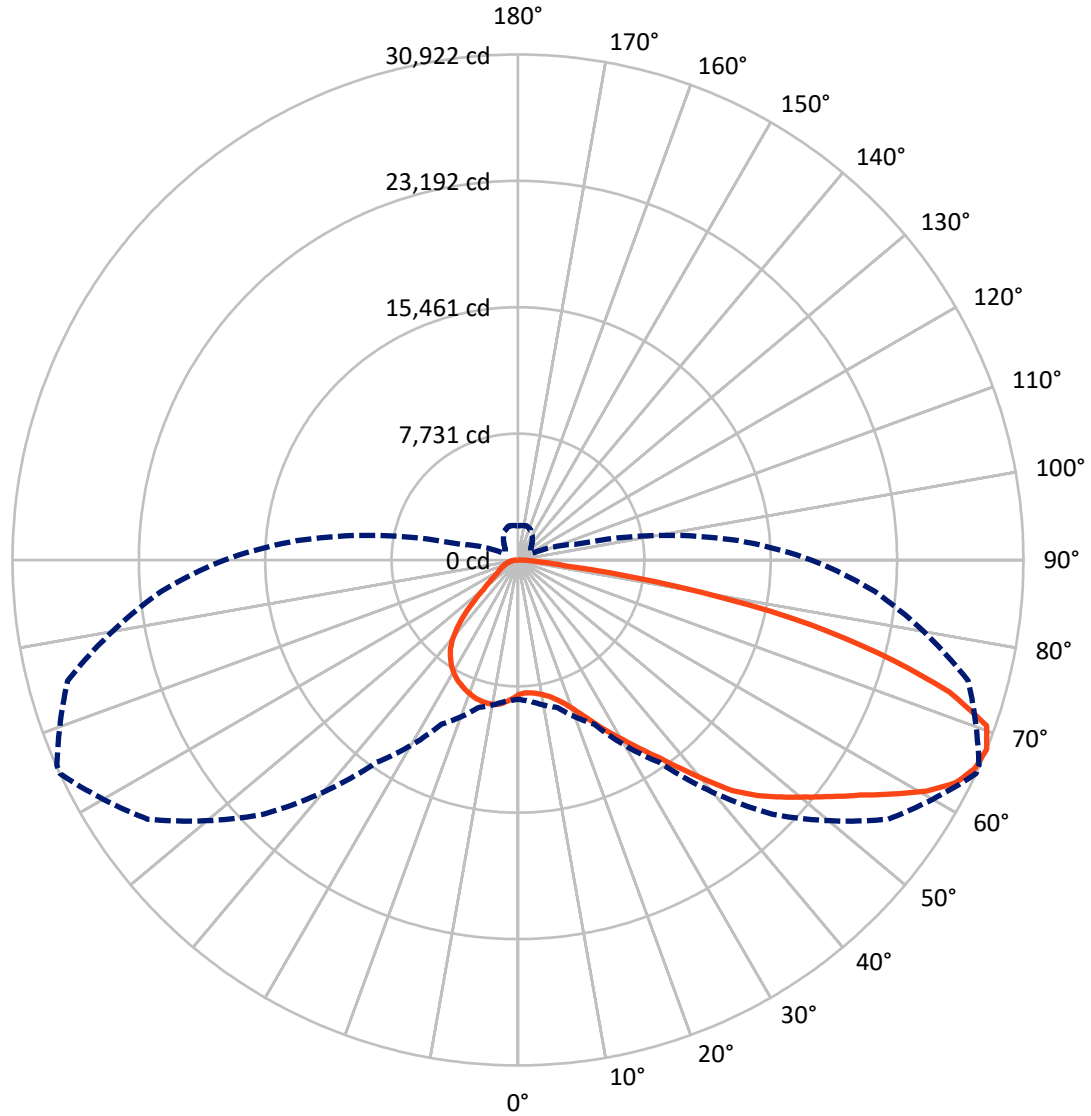
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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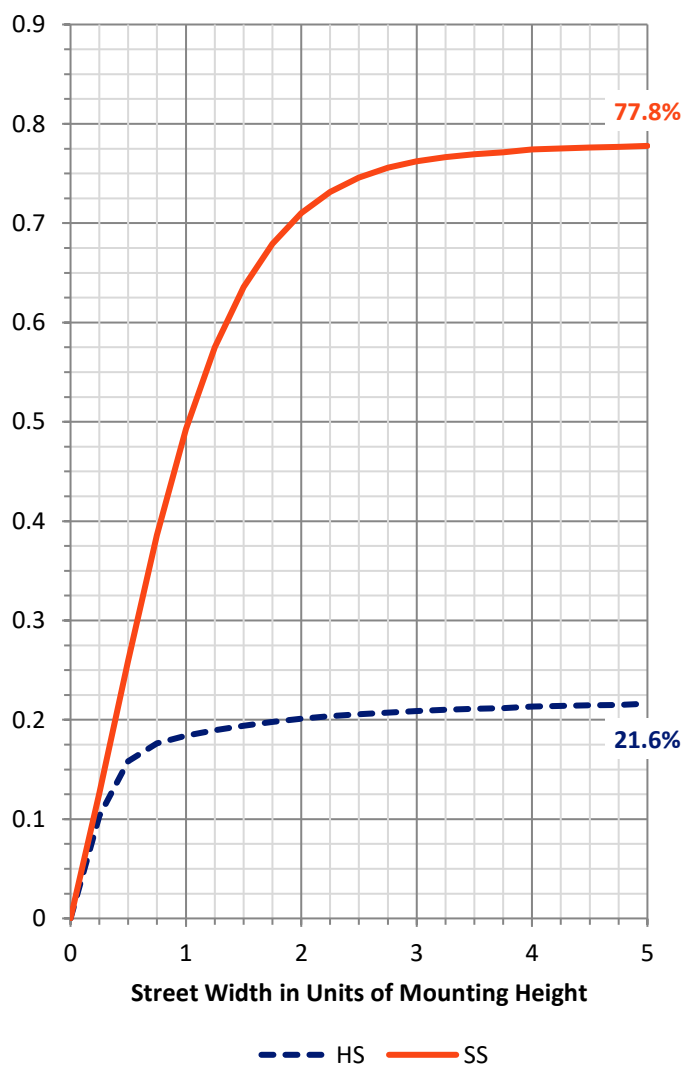
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11763.4	0.0	11763.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	41491.6	0.0	41491.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	53255.0	0.0	53255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.6	1.5
10°-20°	2560.7	4.8
20°-30°	4432.8	8.3
30°-40°	6513.6	12.2
40°-50°	8803.9	16.5
50°-60°	10826.2	20.3
60°-70°	11600.9	21.8
70°-80°	6842.1	12.8
80°-90°	855.2	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°	53255.0	100.0
0°-180°	53255.0	100.0

Coefficient of Utilization

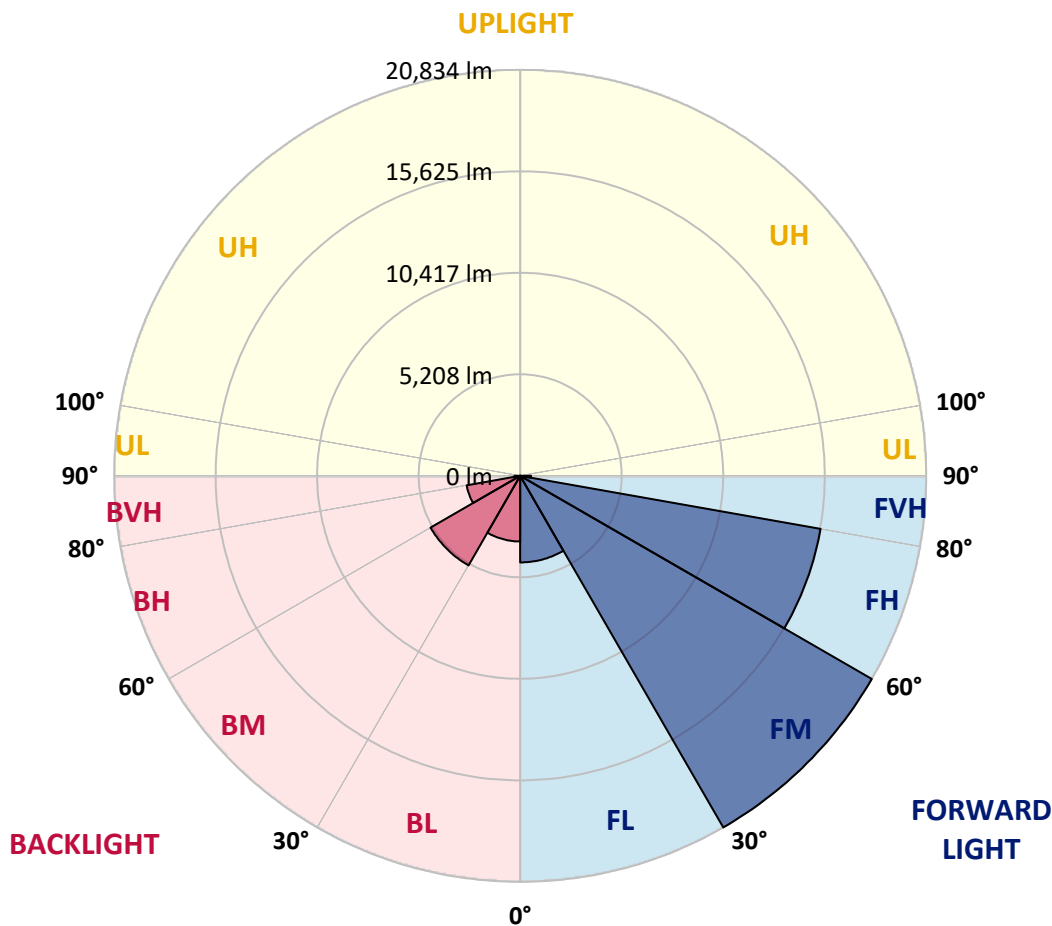


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4443.7	8.3			
FM (30°-60°)	20833.7	39.1			
FH (60°-80°)	15653.4	29.4			G5
FVH (80°-90°)	560.8	1.1			G4/750
BL (0°-30°)	3369.3	6.3	B4/5000		
BM (30°-60°)	5309.9	10.0	B4/8500		
BH (60°-80°)	2789.7	5.2	B4/5000		G4/5000
BVH (80°-90°)	294.4	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°	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9
2.5°	8070.6	8055.4	8048.9	8069.5	8084.7	8102.1	8127.1	8151.0	8154.2	8185.7	8227.0
5°	8168.3	8155.3	8141.2	8137.9	8132.5	8131.4	8137.9	8165.1	8171.6	8202.0	8291.0
7.5°	8385.5	8372.5	8346.4	8336.6	8307.3	8255.2	8230.2	8244.3	8247.6	8284.5	8395.3
10°	8739.5	8699.3	8667.8	8635.2	8542.9	8460.4	8399.6	8373.5	8368.1	8403.9	8532.1
12.5°	9161.8	9128.2	9093.4	9007.6	8890.4	8741.6	8634.1	8574.4	8570.1	8600.5	8697.1
15°	9608.1	9608.1	9584.2	9482.1	9367.0	9120.6	8954.4	8854.5	8861.1	8884.9	8929.5
17.5°	10184.6	10136.9	10126.0	10009.8	9881.7	9656.9	9393.1	9233.5	9241.1	9251.9	9218.3
20°	10770.9	10756.8	10740.5	10663.5	10547.3	10258.5	9962.0	9752.5	9753.6	9714.5	9564.6
22.5°	11546.2	11499.5	11511.5	11424.6	11267.2	10970.7	10629.8	10381.2	10397.4	10341.0	10069.5
25°	12316.0	12269.3	12244.4	12185.7	12050.0	11768.8	11363.8	11135.8	11116.2	11014.2	10620.0
27.5°	13084.7	13057.6	13078.2	13007.7	12896.9	12583.1	12211.8	11958.8	11971.8	11901.2	11313.8
30°	13880.6	13850.2	13940.3	13826.3	13757.9	13452.8	13096.7	12799.2	12810.0	12836.1	12177.0
32.5°	14481.1	14516.9	14674.3	14661.3	14648.3	14308.4	13933.8	13768.8	13785.1	13876.3	13202.0
35°	15060.9	15064.1	15285.6	15452.8	15523.4	15238.9	14850.2	14844.8	14951.2	15229.2	14630.9
37.5°	15541.9	15531.0	15826.3	16085.8	16279.1	16058.7	15844.8	16178.1	16274.8	16851.3	16069.6
40°	15804.6	15827.4	16207.5	16531.0	16911.0	16806.8	16829.6	17681.9	17919.7	18424.6	17145.6
42.5°	15620.0	15689.5	16281.3	16941.4	17514.7	17653.7	18111.9	19306.3	19407.3	19498.5	18204.2
45°	15310.6	15383.3	16039.2	17105.4	18013.1	18600.5	19387.7	20556.0	20666.8	20564.7	19084.8
47.5°	14988.1	15063.0	15793.8	17039.2	18425.7	19551.7	20522.4	21661.3	21802.5	21486.5	19931.7
50°	14578.8	14695.0	15494.1	16899.1	18760.1	20577.7	21596.2	22799.2	22864.4	22408.4	20573.4
52.5°	14075.0	14203.1	15067.4	16659.1	19021.8	21294.3	22683.1	24033.8	24027.3	23485.4	21307.4
55°	13545.1	13661.3	14551.6	16281.3	19168.4	21845.9	23551.7	25394.3	25472.4	25018.6	21971.9
57.5°	12866.5	12971.8	13942.5	15773.1	19016.4	22313.9	24958.9	27011.0	27050.1	26085.9	22500.6
60°	11967.5	12122.7	13097.8	15127.1	18579.9	22855.7	26509.3	28711.3	28759.1	27135.8	22840.5
62.5°	10980.5	11042.4	12035.9	14132.5	17944.7	23273.7	27584.3	30041.4	29971.9	27956.7	22942.6
65°	9777.5	9826.3	10686.3	12853.5	16764.5	23044.6	27969.7	30725.4	30639.7	28472.4	22628.8
67.5°	8518.0	8668.9	9344.2	11079.3	15117.3	21987.1	27644.0	30922.0	30878.5	28511.5	21879.6
70°	6882.8	6936.0	7546.2	9026.1	12613.5	19869.8	26558.2	30418.2	30384.5	27638.6	20349.7
72.5°	4853.4	4801.3	5097.7	6258.4	9110.8	15805.7	22675.5	27587.5	27644.0	24724.3	17721.0
75°	2576.6	2676.5	3137.9	3831.7	5165.1	10160.7	18078.3	22831.8	22812.3	20674.4	14007.7
77.5°	1372.4	1370.3	1687.3	1983.7	2528.8	4668.9	11924.0	17218.3	17313.9	16018.5	9617.9
80°	659.1	684.0	703.6	806.7	1260.6	2157.4	4988.1	9984.8	10636.3	9553.8	4569.0
82.5°	527.7	529.9	532.0	509.2	521.2	878.4	1921.8	2889.3	2993.5	2406.1	1473.4
85°	390.9	367.0	363.7	308.4	348.5	527.7	969.6	1233.4	1172.6	1141.2	831.7
87.5°	157.4	147.7	143.3	134.6	134.6	198.7	342.0	446.3	445.2	406.1	279.0
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°	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9	8225.9
2.5°	8259.5	8298.6	8389.8	8468.0	8497.3	8569.0	8636.3	8675.4	8702.5	8718.8	8792.7
5°	8345.3	8423.5	8569.0	8678.6	8785.1	8917.5	9003.3	9057.6	9088.0	9105.4	9158.6
7.5°	8476.7	8556.0	8710.1	8878.4	8976.2	9084.7	9140.1	9179.2	9198.7	9193.3	9235.7
10°	8594.0	8672.1	8826.3	8955.5	9010.9	9072.8	9102.1	9110.8	9111.9	9116.2	9158.6
12.5°	8753.6	8801.3	8883.9	8968.6	8956.6	8958.8	8983.8	8972.9	8947.9	8943.6	8971.8
15°	8925.1	8926.2	8932.7	8914.3	8839.3	8806.8	8772.0	8742.7	8674.3	8670.0	8714.5
17.5°	9140.1	9089.1	8970.7	8844.8	8666.7	8544.0	8420.2	8369.2	8285.6	8269.3	8291.0
20°	9417.0	9310.6	9022.8	8710.1	8376.8	8157.5	8007.6	7856.7	7740.5	7712.3	7732.9
22.5°	9814.4	9604.8	9089.1	8566.8	8051.1	7676.5	7385.5	7204.2	7008.7	6908.8	6918.6
25°	10294.3	9966.4	9204.2	8385.5	7667.8	7127.1	6654.8	6291.0	6070.6	5924.0	5963.1
27.5°	10923.0	10472.4	9342.1	8206.3	7191.1	6424.6	5739.4	5246.5	5021.7	4952.2	4906.6
30°	11651.5	11083.7	9487.6	7941.4	6676.5	5554.9	4677.5	4267.1	4009.8	3968.5	3933.8
32.5°	12626.6	11853.5	9760.1	7653.7	6061.9	4685.1	3732.9	3260.6	3202.0	3168.3	3160.7
35°	13883.9	12862.2	10045.6	7280.2	5260.6	3665.6	2824.1	2569.0	2540.7	2577.6	2580.9
37.5°	15218.3	13956.6	10387.7	6858.9	4338.8	2735.1	2160.7	1983.7	2015.2	2130.3	2156.4
40°	16121.7	14677.6	10698.2	6286.7	3199.8	1987.0	1572.2	1534.2	1707.9	1855.6	1886.0
42.5°	16988.1	15223.7	10824.2	5529.9	2282.3	1414.8	1269.3	1399.6	1642.8	1804.6	1826.3
45°	17727.6	15858.9	10507.1	4622.2	1547.2	1182.4	1216.1	1396.3	1666.7	1845.8	1862.1
47.5°	18431.1	16377.9	10073.9	3641.7	1220.4	1137.9	1215.0	1425.6	1719.9	1889.3	1899.0
50°	19103.2	16773.1	9334.5	2770.9	1143.3	1117.3	1224.8	1471.2	1749.2	1855.6	1851.3
52.5°	19601.6	16977.3	8547.3	2236.7	1112.9	1101.0	1250.8	1528.8	1754.6	1818.7	1814.3
55°	19967.5	16938.2	8030.4	1831.7	1088.0	1094.5	1293.2	1572.2	1806.7	1903.4	1900.1
57.5°	20001.2	16761.2	7443.0	1547.2	1057.6	1093.4	1338.8	1633.0	2067.3	2245.4	2191.1
60°	19961.0	16468.0	6856.7	1358.3	1023.9	1099.9	1386.5	1815.4	2443.0	2583.1	2545.1
62.5°	19763.4	15921.9	5978.3	1233.4	994.6	1123.8	1422.4	1959.8	2424.5	2440.8	2386.5
65°	19153.2	15191.2	4825.2	1107.5	965.3	1140.1	1451.7	1997.8	2226.9	2174.8	2147.7
67.5°	17945.8	13559.2	3722.1	992.4	927.3	1136.8	1538.6	1943.5	2152.0	2114.0	2079.3
70°	16230.3	11704.7	2584.2	874.1	863.2	1116.2	1516.8	1962.0	2116.2	2057.6	2010.9
72.5°	13559.2	9182.5	1643.9	777.4	767.6	1067.3	1462.5	1950.1	2092.3	2066.2	2002.2
75°	10209.6	6409.4	1044.5	672.1	683.0	978.3	1375.7	1886.0	2080.4	1998.9	1876.2
77.5°	6427.8	3164.0	812.2	571.1	587.4	843.7	1188.9	1647.1	1996.8	1947.9	1790.5
80°	2431.1	1284.5	635.2	463.6	477.7	655.8	975.0	1355.1	1838.2	1918.6	1851.3
82.5°	1119.4	803.5	476.7	372.4	377.9	477.7	727.5	1003.3	1555.9	1761.1	1929.4
85°	653.6	526.6	318.1	248.6	258.4	282.3	409.3	612.4	1008.7	1343.1	1502.7
87.5°	222.6	183.5	123.8	105.3	102.1	116.2	98.8	200.9	299.7	527.7	602.6
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)