

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: P721913

Luminaire Tested: **CST-CA8-430-730-U-T4**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-730-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63179 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

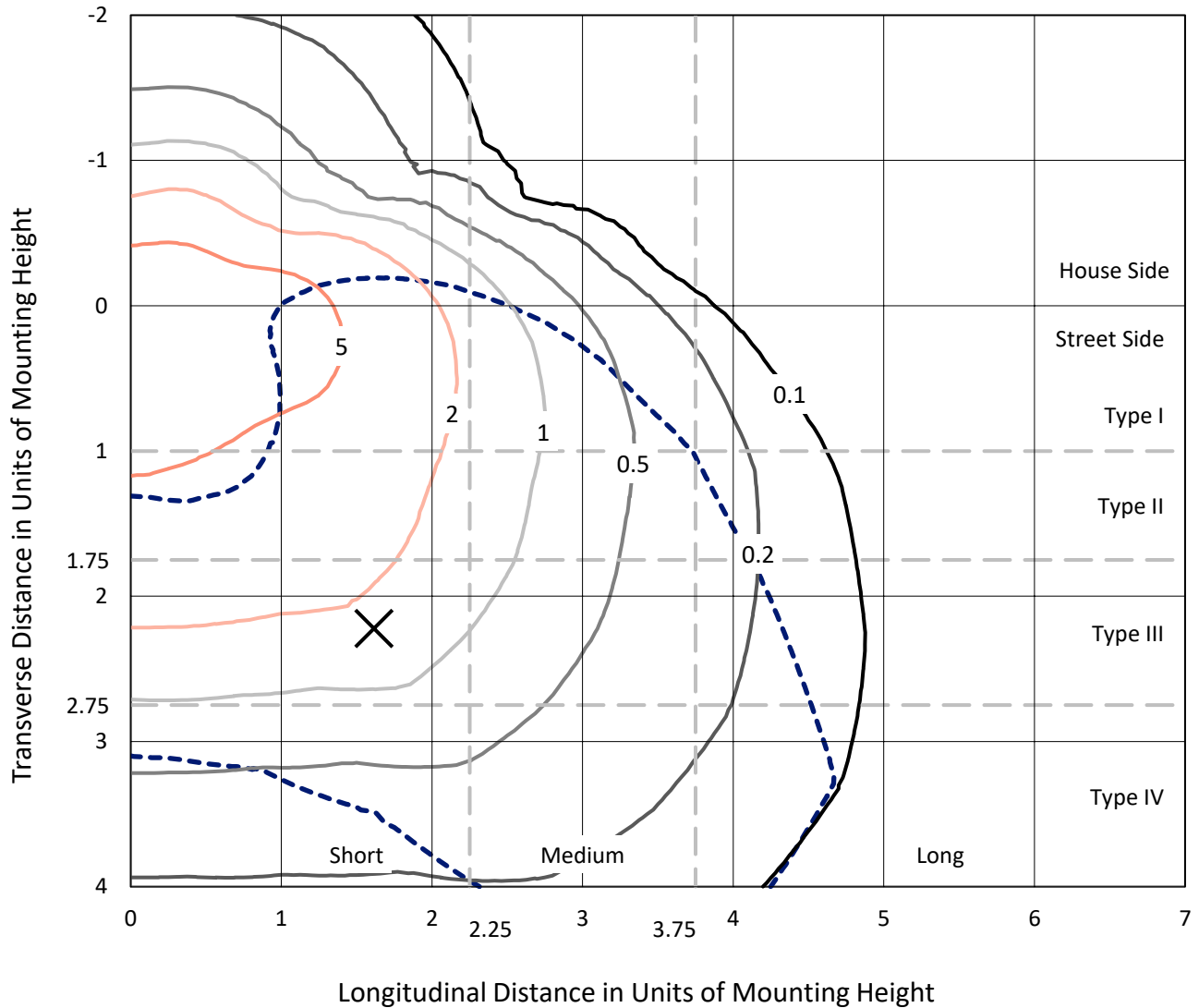
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

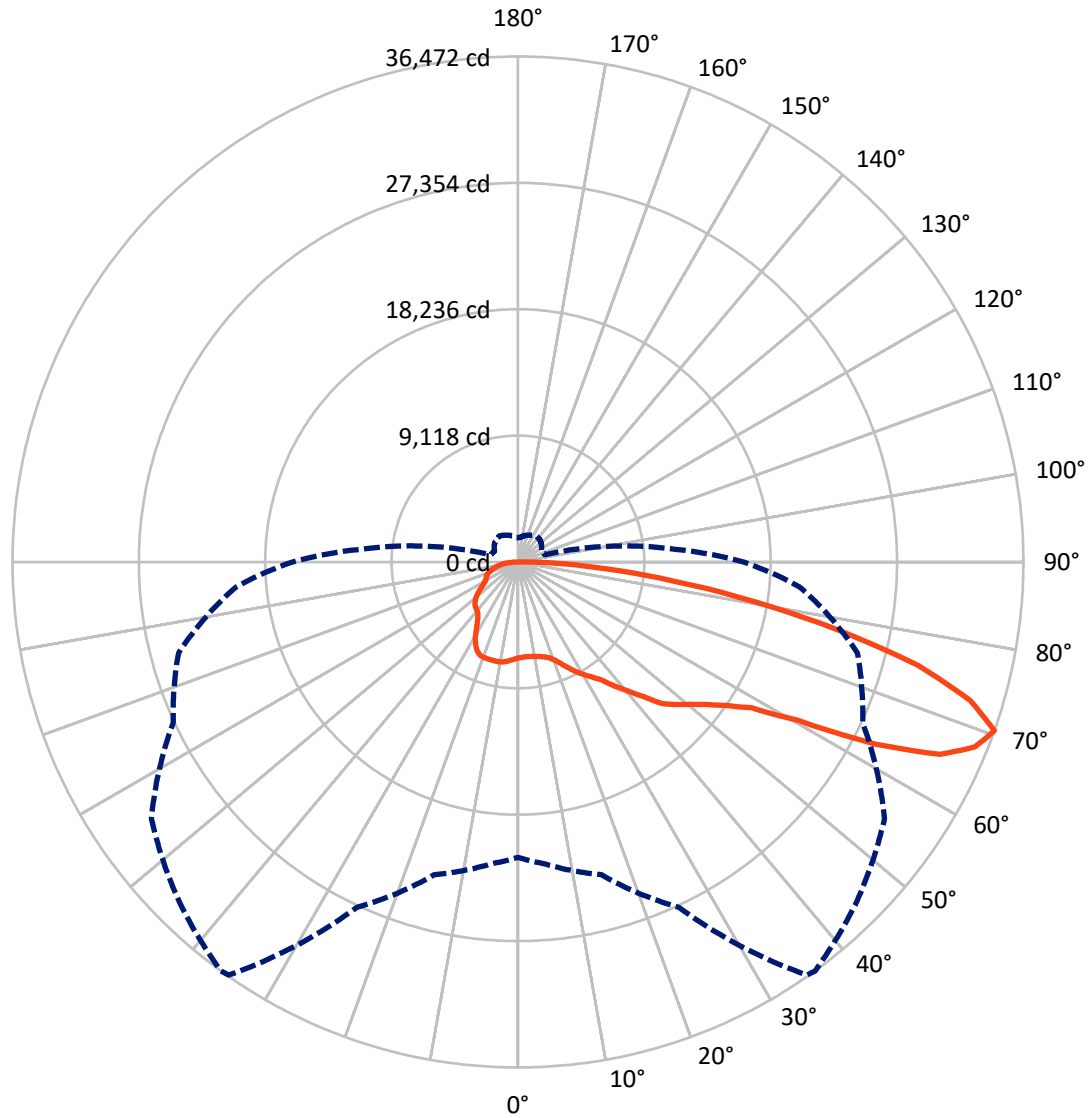
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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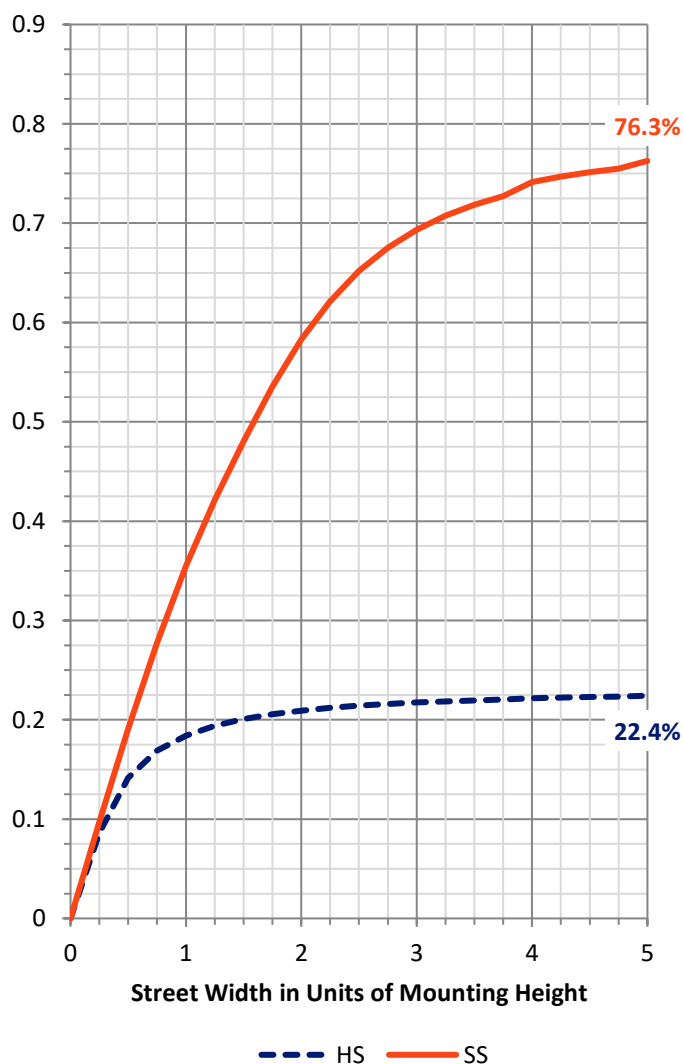
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14395.0	0.0	14395.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	48784.1	0.0	48784.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	63179.0	0.0	63179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.4	1.1
10°-20°	2072.6	3.3
20°-30°	3738.6	5.9
30°-40°	5790.3	9.2
40°-50°	8795.5	13.9
50°-60°	12191.1	19.3
60°-70°	15852.6	25.1
70°-80°	11707.0	18.5
80°-90°	2361.0	3.7
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°	63179.0	100.0
0°-180°	63179.0	100.0

Coefficient of Utilization

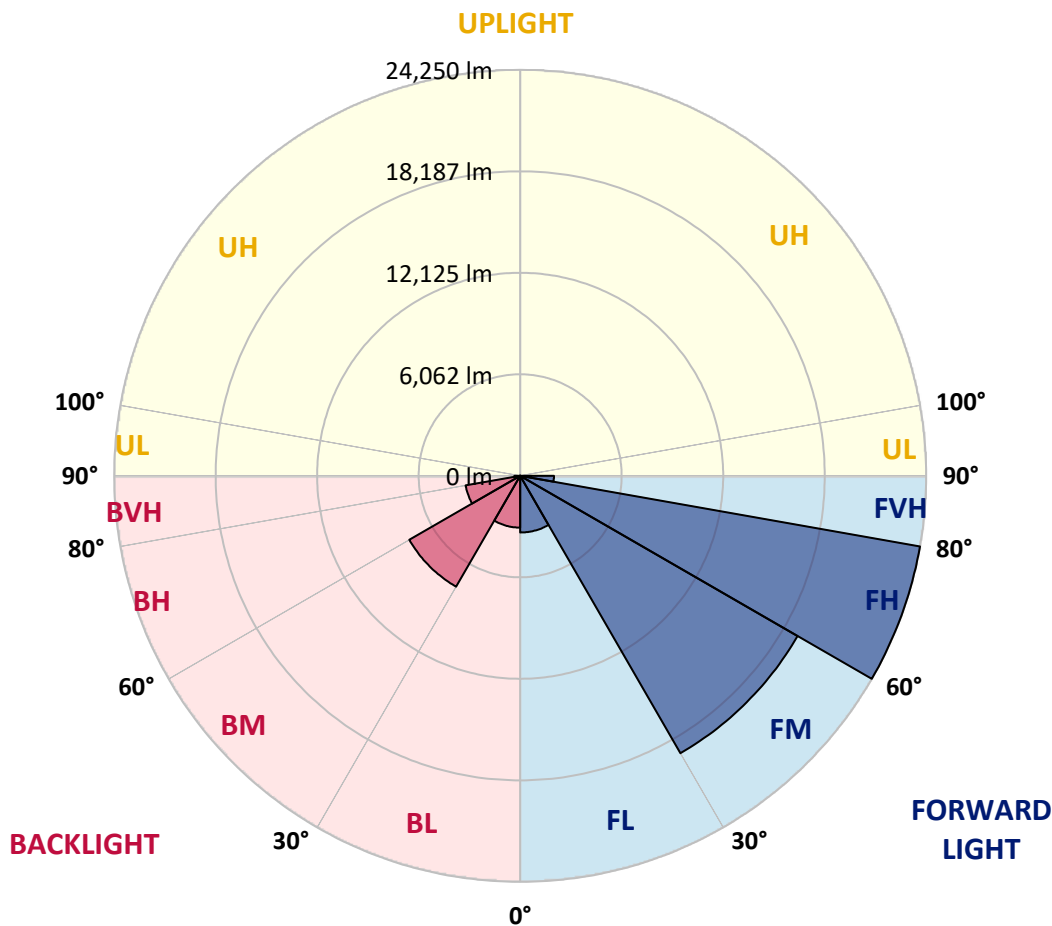


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.0	5.4			
FM (30°-60°)	19130.4	30.3			
FH (60°-80°)	24249.5	38.4			G5
FVH (80°-90°)	2017.1	3.2			G5
BL (0°-30°)	3094.5	4.9	B4/5000		
BM (30°-60°)	7646.4	12.1	B4/8500		
BH (60°-80°)	3310.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	343.9	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0
2.5°	6878.1	6869.0	6863.7	6874.2	6878.1	6879.4	6882.0	6879.4	6872.9	6896.4	6925.2
5°	6879.4	6874.2	6863.7	6854.6	6854.6	6854.6	6855.9	6886.0	6899.1	6896.4	6931.8
7.5°	6889.9	6886.0	6866.4	6859.8	6875.5	6880.7	6906.9	6897.7	6912.1	6935.7	6965.8
10°	6891.2	6886.0	6869.0	6883.4	6927.8	6935.7	6947.5	6973.6	6978.8	7007.6	7037.7
12.5°	6904.3	6904.3	6910.8	6942.2	6989.3	6998.5	7042.9	7063.9	7095.3	7109.7	7146.3
15°	6973.6	6972.3	6988.0	7023.3	7099.2	7104.4	7159.4	7222.2	7245.7	7281.0	7339.9
17.5°	7138.4	7146.3	7147.6	7173.8	7264.0	7266.6	7356.9	7415.8	7469.4	7532.2	7666.9
20°	7529.6	7515.2	7499.5	7499.5	7534.8	7553.1	7622.4	7716.6	7826.5	7937.7	8096.0
22.5°	8021.4	8050.2	7992.6	7962.6	7979.6	7958.6	8011.0	8086.8	8215.0	8381.2	8581.3
25°	8608.8	8611.4	8607.5	8485.8	8447.9	8461.0	8504.1	8574.8	8744.8	8876.9	9167.3
27.5°	9181.7	9170.0	9128.1	8999.9	8963.3	8981.6	8980.3	9175.2	9349.2	9517.9	9859.3
30°	9702.4	9733.8	9659.2	9443.4	9447.3	9444.7	9504.8	9756.0	10073.9	10387.8	10738.4
32.5°	10620.7	10525.2	10424.5	9998.0	9919.5	9910.4	9945.7	10319.8	10790.7	11320.5	11741.7
35°	11485.3	11461.8	11362.4	10929.4	10475.5	10467.6	10419.2	10874.4	11536.4	12517.5	13043.3
37.5°	12369.6	12335.6	12237.5	11868.6	11417.3	11374.2	10967.3	11465.7	12360.5	13917.1	14666.7
40°	13424.0	13403.1	13251.3	12779.1	12316.0	12250.6	11828.1	12087.1	13400.4	15781.2	16309.7
42.5°	14348.8	14344.9	14170.9	13732.7	13339.0	13273.5	12913.8	13183.3	14845.9	17607.4	17918.7
45°	15027.7	15131.1	15138.9	14889.1	14617.0	14559.4	14463.9	14835.5	16517.7	19264.8	19219.0
47.5°	15600.7	15689.7	15596.8	15468.6	15375.7	15379.6	15527.5	16265.2	18168.6	20708.9	20353.1
50°	16558.3	16503.3	16020.6	15944.7	16062.5	16131.8	16560.9	17808.8	20058.8	22064.2	21370.8
52.5°	17939.6	17729.0	16781.9	16627.6	17073.7	17099.8	17782.7	19188.9	21947.7	23227.1	22302.2
55°	19829.9	19655.9	18585.8	17872.9	18097.9	18274.5	19236.0	20603.0	23490.0	24320.7	23019.1
57.5°	22624.0	22637.1	21764.6	20435.5	19670.3	19858.7	20609.5	21977.8	24764.1	25236.4	23466.5
60°	24863.5	25278.2	25017.9	24410.9	23312.1	23183.9	22612.3	23410.2	25852.5	26014.7	23894.2
62.5°	26416.3	26604.7	27499.4	27627.6	28883.4	28937.0	26199.1	25088.5	27048.1	26524.9	23984.5
65°	26337.8	26454.2	27868.3	29589.8	33299.6	33465.8	31863.3	27627.6	27867.0	26752.5	23721.5
67.5°	24503.8	24679.1	26476.5	29694.4	35653.0	35590.2	34573.8	31162.2	28136.5	26387.5	22468.4
70°	21318.5	21858.8	23368.4	27487.6	36388.1	36471.8	34598.6	32291.1	27441.9	25355.4	20379.3
72.5°	17570.7	17740.8	19166.7	23776.5	34238.9	34115.9	33180.6	30801.1	26186.1	23488.7	16723.1
75°	13362.5	13362.5	15089.2	18948.2	29402.7	29834.4	30198.1	27897.1	23198.3	19144.4	11387.2
77.5°	8870.4	9188.3	10578.8	14238.9	23274.2	23593.4	24849.2	23779.1	18994.0	14038.8	5201.1
80°	4705.3	4744.6	6235.8	9461.7	16647.2	17248.9	18975.7	18339.9	13662.1	6577.3	1314.7
82.5°	1645.6	1796.1	2741.8	5483.7	10968.6	11344.1	12588.1	10898.0	4825.7	1455.9	727.3
85°	817.6	846.4	1207.4	2611.0	6175.7	6357.5	7354.3	4244.9	777.0	635.7	494.5
87.5°	393.7	402.9	463.1	934.0	2684.3	2808.5	2973.4	1381.4	287.8	242.0	214.5
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°	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0	6920.0
2.5°	6931.8	6943.5	6965.8	6972.3	6956.6	6985.4	7012.9	7037.7	7036.4	7045.6	7078.3
5°	6947.5	6972.3	6995.9	7037.7	7078.3	7101.8	7124.1	7145.0	7151.5	7171.1	7190.8
7.5°	6995.9	7020.7	7074.3	7147.6	7150.2	7209.1	7247.0	7253.6	7258.8	7258.8	7304.6
10°	7070.4	7116.2	7202.5	7253.6	7299.3	7279.7	7319.0	7294.1	7275.8	7283.6	7315.0
12.5°	7198.6	7239.2	7363.4	7419.7	7377.8	7370.0	7330.7	7274.5	7210.4	7203.8	7232.6
15°	7400.1	7475.9	7587.1	7640.8	7536.1	7443.2	7311.1	7196.0	7071.7	7025.9	7044.3
17.5°	7724.5	7816.1	7937.7	7901.1	7710.1	7527.0	7308.5	7065.2	6824.5	6657.1	6700.2
20°	8199.3	8267.4	8366.8	8219.0	7940.3	7638.1	7279.7	6895.1	6488.3	6183.5	6148.2
22.5°	8697.7	8801.1	8740.9	8467.5	8102.5	7681.3	7219.5	6647.9	6018.7	5636.7	5579.2
25°	9298.2	9332.2	9124.2	8712.1	8148.3	7613.3	7024.6	6286.9	5538.6	5178.9	5161.9
27.5°	9935.2	9858.0	9470.8	8824.6	8097.3	7411.8	6633.5	5716.5	5104.3	4786.4	4736.7
30°	10654.7	10475.5	9757.3	8836.4	7905.0	7019.4	6139.0	5270.4	4751.1	4431.9	4380.9
32.5°	11580.8	11158.3	10022.9	8714.7	7499.5	6443.8	5545.1	4889.8	4433.2	4112.7	4067.0
35°	12764.7	12051.8	10304.1	8495.0	6999.8	5868.3	5053.3	4566.7	4175.5	3789.6	3728.2
37.5°	14129.1	13298.4	10640.3	8217.6	6451.7	5362.0	4721.0	4361.3	3984.6	3547.6	3474.4
40°	15714.5	14546.4	11158.3	7886.7	5959.8	4997.0	4560.1	4290.7	3878.6	3423.4	3339.6
42.5°	17088.0	15866.3	11774.4	7530.9	5495.4	4693.6	4488.2	4243.6	3811.9	3330.5	3235.0
45°	18358.2	16955.9	12376.2	7099.2	5006.2	4485.6	4401.8	4125.8	3694.1	3215.4	3116.0
47.5°	19390.3	17836.3	12899.4	6702.8	4615.1	4294.6	4213.5	3902.1	3496.6	3076.7	3003.5
50°	20183.1	18498.2	13185.9	6387.6	4201.7	4077.4	3970.2	3649.7	3259.8	2897.5	2834.7
52.5°	20994.1	19161.4	13327.2	6403.3	3817.1	3754.3	3644.4	3369.7	3071.5	2792.8	2724.8
55°	21466.3	19433.5	13178.1	6022.6	3463.9	3390.7	3295.2	3152.6	2974.7	2727.4	2663.3
57.5°	21742.4	19602.3	12724.1	4912.0	3038.8	2969.4	2985.1	2973.4	2826.9	2566.5	2507.7
60°	21941.2	19236.0	11794.1	3610.4	2676.4	2624.1	2753.6	2711.7	2584.9	2382.1	2332.4
62.5°	21780.3	18538.8	10119.7	2714.4	2380.8	2492.0	2605.8	2528.6	2355.9	2171.5	2113.9
65°	20799.2	17170.5	7691.8	2180.6	2285.3	2438.3	2529.9	2405.6	2230.4	2011.9	1985.7
67.5°	19013.6	14690.2	4536.6	1998.8	2213.3	2375.6	2451.4	2286.6	2132.2	1922.9	1891.5
70°	16288.8	10997.4	2026.3	1861.5	2087.8	2248.7	2298.4	2142.7	1975.3	1779.1	1747.7
72.5°	12123.7	6630.9	1365.7	1718.9	1902.0	2044.6	2099.5	1934.7	1815.7	1726.7	1717.6
75°	6732.9	2302.3	1259.7	1556.7	1699.3	1827.5	1895.5	1779.1	1684.9	1563.2	1513.5
77.5°	2144.0	978.5	1196.9	1391.8	1572.4	1678.3	1667.9	1492.6	1462.5	1314.7	1301.6
80°	855.5	852.9	1106.7	1139.4	1342.1	1431.1	1407.5	1186.5	1225.7	1139.4	1105.4
82.5°	671.1	781.0	886.9	869.9	1043.9	1148.5	1115.8	871.2	985.0	905.2	828.0
85°	510.2	684.1	569.0	566.4	728.6	852.9	873.8	669.8	671.1	610.9	544.2
87.5°	262.9	252.5	218.5	217.1	243.3	346.7	425.1	380.7	300.9	226.3	217.1
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)