

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: P721943

Luminaire Tested: **CST-CA8-430-760-U-T4**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721943
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-CA8-430-760-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64135 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

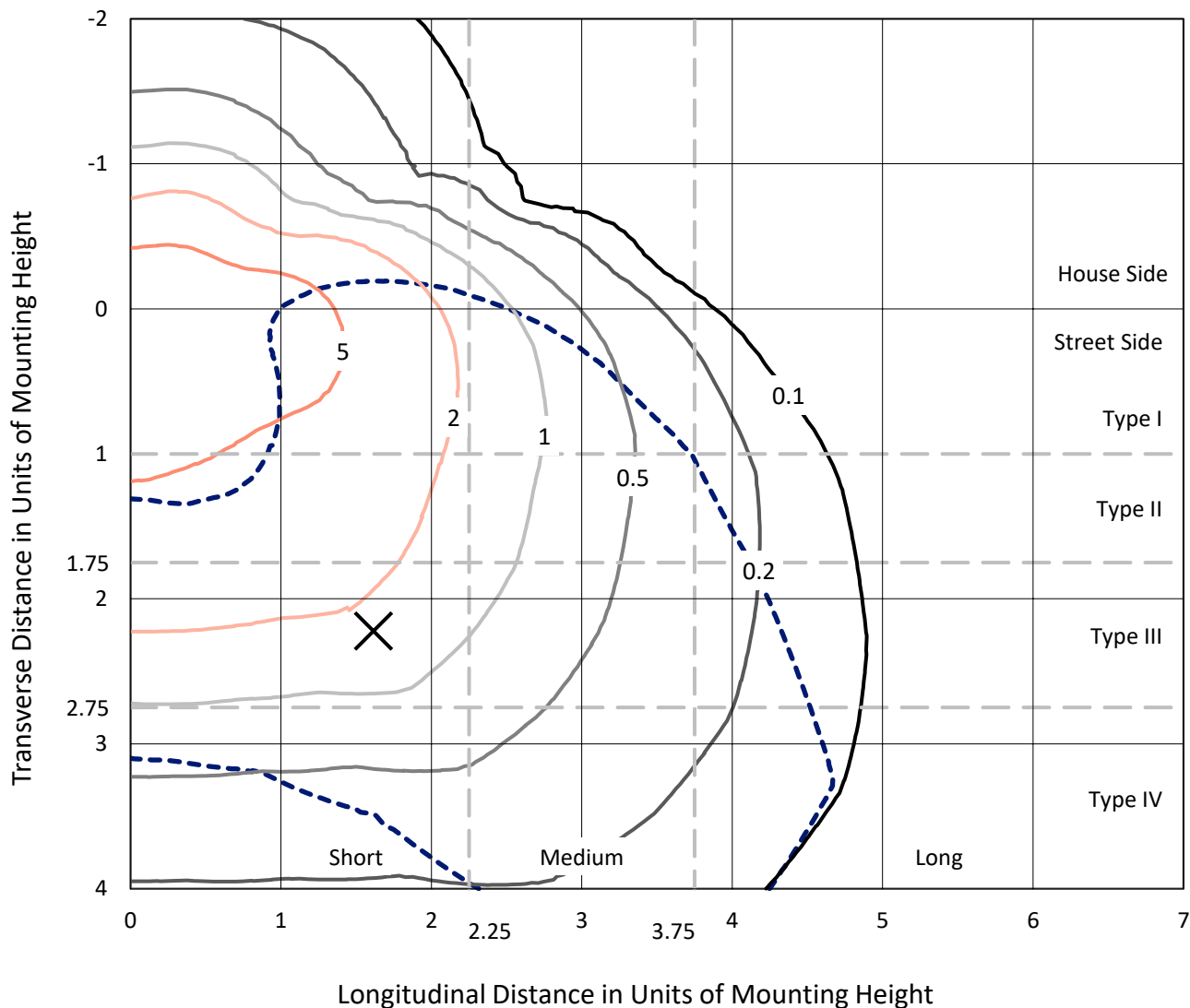
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

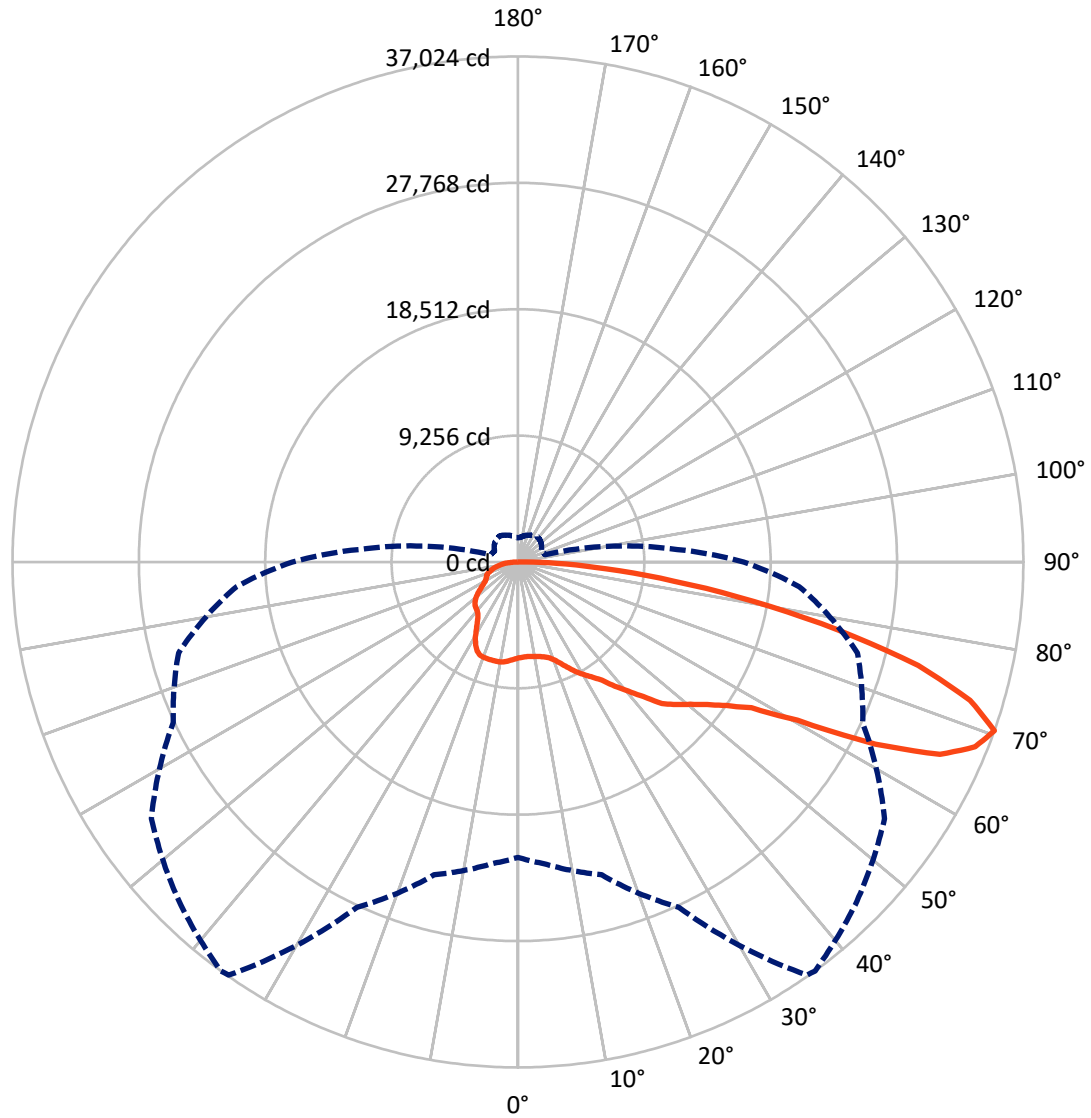
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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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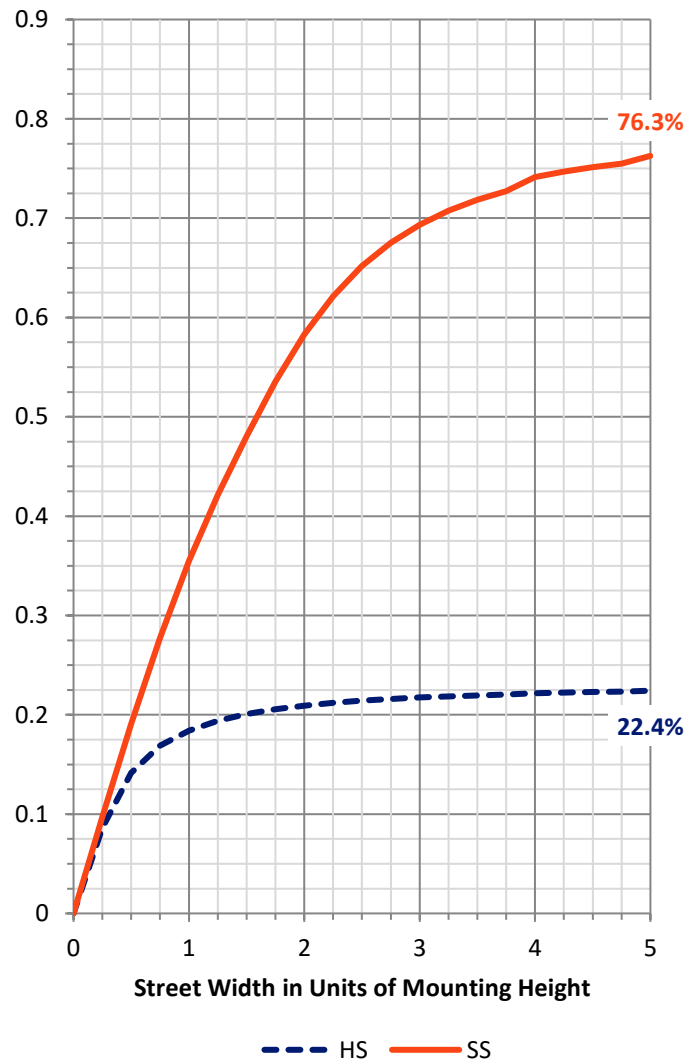
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14612.8	0.0	14612.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	49522.2	0.0	49522.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	64135.0	0.0	64135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.6	1.1
10°-20°	2103.9	3.3
20°-30°	3795.1	5.9
30°-40°	5877.9	9.2
40°-50°	8928.6	13.9
50°-60°	12375.5	19.3
60°-70°	16092.5	25.1
70°-80°	11884.1	18.5
80°-90°	2396.8	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°	64135.0	100.0
0°-180°	64135.0	100.0

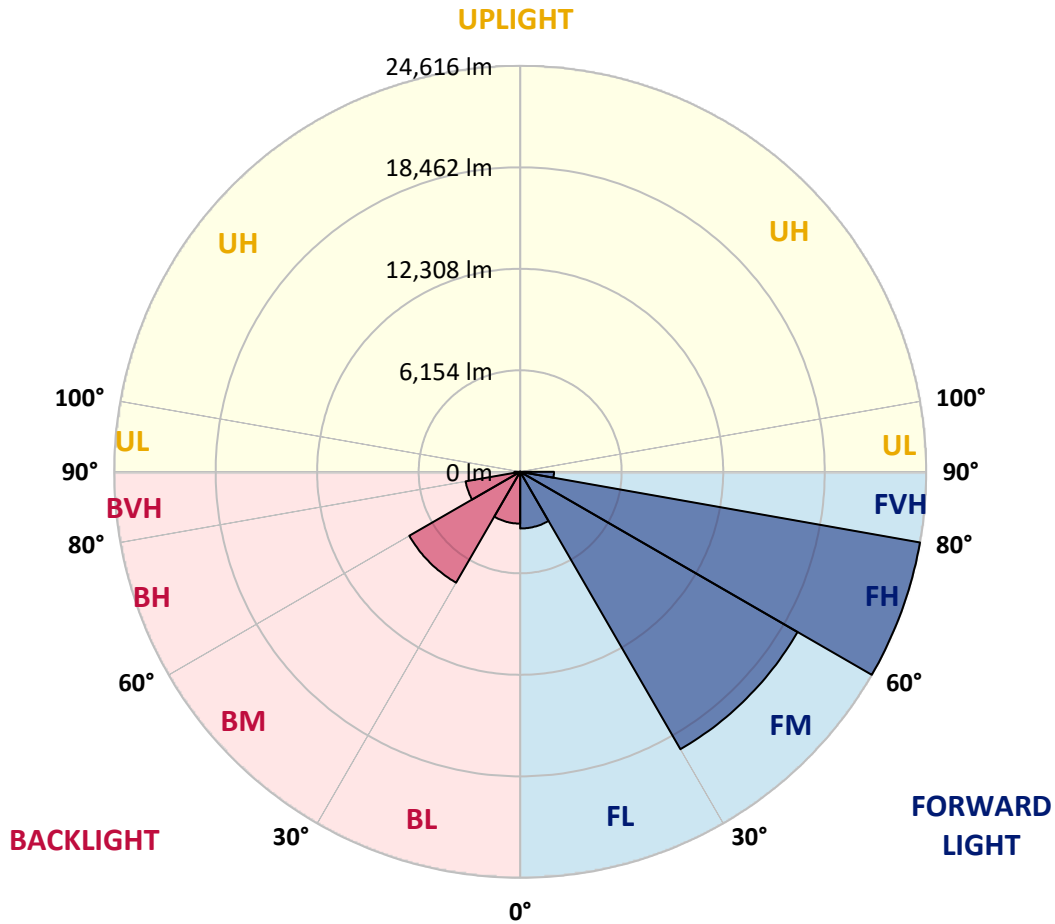


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3438.3	5.4			
FM (30°-60°)	19419.9	30.3			
FH (60°-80°)	24616.4	38.4			G5
FVH (80°-90°)	2047.6	3.2			G5
BL (0°-30°)	3141.4	4.9	B4/5000		
BM (30°-60°)	7762.1	12.1	B4/8500		
BH (60°-80°)	3360.2	5.2	B4/5000		G4/5000
BVH (80°-90°)	349.1	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°	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7
2.5°	6982.2	6972.9	6967.6	6978.2	6982.2	6983.5	6986.2	6983.5	6976.9	7000.8	7030.0
5°	6983.5	6978.2	6967.6	6958.3	6958.3	6958.3	6959.6	6990.2	7003.4	7000.8	7036.6
7.5°	6994.2	6990.2	6970.2	6963.6	6979.5	6984.9	7011.4	7002.1	7016.7	7040.6	7071.2
10°	6995.5	6990.2	6972.9	6987.5	7032.7	7040.6	7052.6	7079.1	7084.5	7113.7	7144.2
12.5°	7008.8	7008.8	7015.4	7047.3	7095.1	7104.4	7149.5	7170.8	7202.6	7217.2	7254.4
15°	7079.1	7077.8	7093.7	7129.6	7206.6	7211.9	7267.7	7331.4	7355.3	7391.2	7451.0
17.5°	7246.5	7254.4	7255.8	7282.3	7373.9	7376.6	7468.2	7528.0	7582.4	7646.2	7782.9
20°	7643.5	7628.9	7613.0	7613.0	7648.8	7667.4	7737.8	7833.4	7944.9	8057.8	8218.5
22.5°	8142.8	8172.0	8113.6	8083.0	8100.3	8079.1	8132.2	8209.2	8339.3	8508.0	8711.2
25°	8739.0	8741.7	8737.7	8614.2	8575.7	8589.0	8632.8	8704.5	8877.1	9011.3	9306.1
27.5°	9320.7	9308.7	9266.2	9136.1	9098.9	9117.5	9116.2	9314.0	9490.6	9661.9	10008.5
30°	9849.2	9881.0	9805.4	9586.3	9590.2	9587.6	9648.7	9903.6	10226.3	10545.0	10900.9
32.5°	10781.4	10684.4	10582.2	10149.3	10069.6	10060.3	10096.2	10476.0	10954.0	11491.8	11919.4
35°	11659.1	11635.2	11534.3	11094.8	10634.0	10626.0	10576.9	11039.0	11710.9	12706.9	13240.7
37.5°	12556.8	12522.3	12422.7	12048.2	11590.1	11546.3	11133.3	11639.2	12547.5	14127.7	14888.6
40°	13627.1	13605.9	13451.8	12972.4	12502.4	12436.0	12007.0	12270.0	13603.2	16020.0	16556.5
42.5°	14565.9	14562.0	14385.4	13940.5	13540.8	13474.4	13109.2	13382.8	15070.6	17873.8	18189.8
45°	15255.1	15360.0	15368.0	15114.4	14838.2	14779.7	14682.8	15059.9	16767.6	19556.3	19509.8
47.5°	15836.8	15927.1	15832.8	15702.6	15608.4	15612.4	15762.4	16511.4	18443.5	21022.3	20661.1
50°	16808.8	16753.0	16263.0	16186.0	16305.5	16375.9	16811.5	18078.3	20362.3	22398.0	21694.2
52.5°	18211.1	17997.3	17035.9	16879.2	17332.0	17358.6	18051.7	19479.3	22279.8	23578.5	22639.7
55°	20129.9	19953.3	18867.1	18143.4	18371.8	18551.0	19527.1	20914.7	23845.5	24688.7	23367.4
57.5°	22966.4	22979.6	22093.9	20744.8	19967.9	20159.1	20921.4	22310.4	25138.8	25618.2	23821.5
60°	25239.8	25660.7	25396.5	24780.3	23664.9	23534.7	22954.4	23764.4	26243.7	26408.3	24255.8
62.5°	26816.0	27007.2	27915.5	28045.7	29320.5	29374.9	26595.6	25468.2	27457.4	26926.2	24347.4
65°	26736.3	26854.5	28290.0	30037.5	33803.5	33972.2	32345.5	28045.7	28288.7	27157.3	24080.5
67.5°	24874.6	25052.5	26877.1	30143.8	36192.4	36128.7	35096.9	31633.7	28562.2	26786.8	22808.3
70°	21641.1	22189.5	23722.0	27903.6	36938.7	37023.7	35122.1	32779.7	27857.1	25739.1	20687.7
72.5°	17836.6	18009.2	19456.7	24136.3	34757.0	34632.1	33682.7	31267.2	26582.3	23844.1	16976.1
75°	13564.7	13564.7	15317.6	19234.9	29847.6	30285.9	30655.0	28319.2	23549.3	19434.1	11559.5
77.5°	9004.6	9327.3	10738.9	14454.4	23626.3	23950.4	25225.2	24138.9	19281.4	14251.2	5279.8
80°	4776.5	4816.4	6330.2	9604.8	16899.1	17509.9	19262.8	18617.4	13868.8	6676.8	1334.6
82.5°	1670.5	1823.2	2783.3	5566.6	11134.6	11515.7	12778.6	11062.9	4898.7	1478.0	738.3
85°	829.9	859.2	1225.7	2650.5	6269.1	6453.7	7465.6	4309.1	788.8	645.4	502.0
87.5°	399.7	409.0	470.1	948.1	2724.9	2851.0	3018.4	1402.3	292.1	245.7	217.8
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°	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7	7024.7
2.5°	7036.6	7048.6	7071.2	7077.8	7061.9	7091.1	7119.0	7144.2	7142.9	7152.2	7185.4
5°	7052.6	7077.8	7101.7	7144.2	7185.4	7209.3	7231.9	7253.1	7259.7	7279.7	7299.6
7.5°	7101.7	7126.9	7181.4	7255.8	7258.4	7318.2	7356.7	7363.3	7368.6	7368.6	7415.1
10°	7177.4	7223.9	7311.5	7363.3	7409.8	7389.9	7429.7	7404.5	7385.9	7393.9	7425.7
12.5°	7307.5	7348.7	7474.9	7532.0	7489.5	7481.5	7441.7	7384.6	7319.5	7312.9	7342.1
15°	7512.0	7589.1	7701.9	7756.4	7650.1	7555.9	7421.7	7304.9	7178.7	7132.3	7150.8
17.5°	7841.4	7934.3	8057.8	8020.6	7826.8	7640.8	7419.1	7172.1	6927.8	6757.8	6801.6
20°	8323.4	8392.5	8493.4	8343.3	8060.5	7753.7	7389.9	6999.5	6586.5	6277.1	6241.2
22.5°	8829.3	8934.2	8873.2	8595.6	8225.1	7797.5	7328.8	6748.5	6109.8	5722.0	5663.6
25°	9438.9	9473.4	9262.2	8843.9	8271.6	7728.5	7130.9	6382.0	5622.4	5257.2	5240.0
27.5°	10085.5	10007.2	9614.1	8958.1	8219.8	7524.0	6733.9	5803.0	5181.5	4858.9	4808.4
30°	10815.9	10634.0	9905.0	8970.1	8024.6	7125.6	6231.9	5350.2	4823.0	4499.0	4447.2
32.5°	11756.1	11327.2	10174.5	8846.6	7613.0	6541.3	5629.1	4963.8	4500.3	4175.0	4128.5
35°	12957.8	12234.1	10460.0	8623.5	7105.7	5957.0	5129.8	4635.8	4238.7	3847.0	3784.6
37.5°	14342.9	13499.6	10801.3	8342.0	6549.3	5443.1	4792.5	4427.3	4044.8	3601.3	3527.0
40°	15952.3	14766.5	11327.2	8006.0	6050.0	5072.7	4629.1	4355.6	3937.3	3475.2	3390.2
42.5°	17346.6	16106.3	11952.6	7644.8	5578.6	4764.6	4556.1	4307.8	3869.6	3380.9	3283.9
45°	18636.0	17212.5	12563.4	7206.6	5081.9	4553.4	4468.4	4188.3	3750.0	3264.0	3163.1
47.5°	19683.8	18106.2	13094.6	6804.3	4684.9	4359.6	4277.2	3961.2	3549.5	3123.3	3048.9
50°	20488.5	18778.1	13385.4	6484.2	4265.3	4139.1	4030.2	3704.9	3309.2	2941.3	2877.6
52.5°	21311.8	19451.4	13528.8	6500.2	3874.9	3811.1	3699.6	3420.7	3118.0	2835.1	2766.1
55°	21791.2	19727.6	13377.5	6113.7	3516.3	3442.0	3345.0	3200.3	3019.7	2768.7	2703.6
57.5°	22071.4	19898.9	12916.7	4986.3	3084.8	3014.4	3030.3	3018.4	2869.6	2605.4	2545.6
60°	22273.2	19527.1	11972.5	3665.1	2716.9	2663.8	2795.3	2752.8	2624.0	2418.1	2367.7
62.5°	22109.9	18819.3	10272.8	2755.4	2416.8	2529.7	2645.2	2566.9	2391.6	2204.3	2145.9
65°	21113.9	17430.3	7808.2	2213.6	2319.9	2475.2	2568.2	2442.0	2264.1	2042.3	2015.8
67.5°	19301.3	14912.5	4605.2	2029.1	2246.8	2411.5	2488.5	2321.2	2164.5	1952.0	1920.2
70°	16535.3	11163.8	2056.9	1889.6	2119.4	2282.7	2333.2	2175.1	2005.2	1806.0	1774.1
72.5°	12307.2	6731.2	1386.3	1744.9	1930.8	2075.5	2131.3	1964.0	1843.2	1752.9	1743.6
75°	6834.8	2337.1	1278.8	1580.2	1725.0	1855.1	1924.2	1806.0	1710.4	1586.9	1536.4
77.5°	2176.5	993.3	1215.0	1412.9	1596.2	1703.7	1693.1	1515.2	1484.6	1334.6	1321.3
80°	868.5	865.8	1123.4	1156.6	1362.4	1452.7	1428.8	1204.4	1244.3	1156.6	1122.1
82.5°	681.2	792.8	900.3	883.1	1059.7	1165.9	1132.7	884.4	999.9	918.9	840.6
85°	517.9	694.5	577.6	575.0	739.7	865.8	887.1	679.9	681.2	620.1	552.4
87.5°	266.9	256.3	221.8	220.4	247.0	351.9	431.6	386.4	305.4	229.7	220.4
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)