

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: P721893

Luminaire Tested: **CST-CA8-430-722-U-T4**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721893
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-CA8-430-722-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52440 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

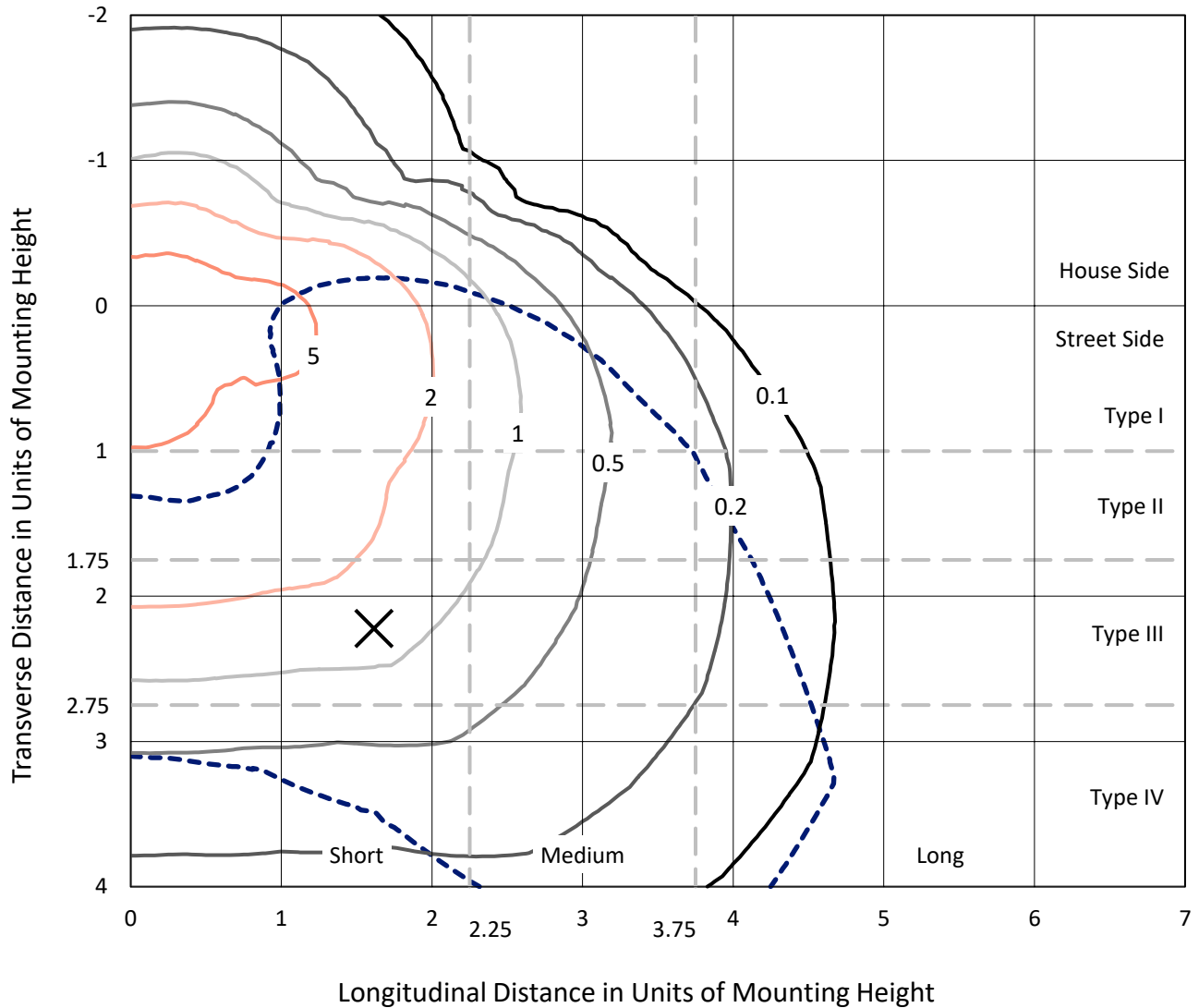
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

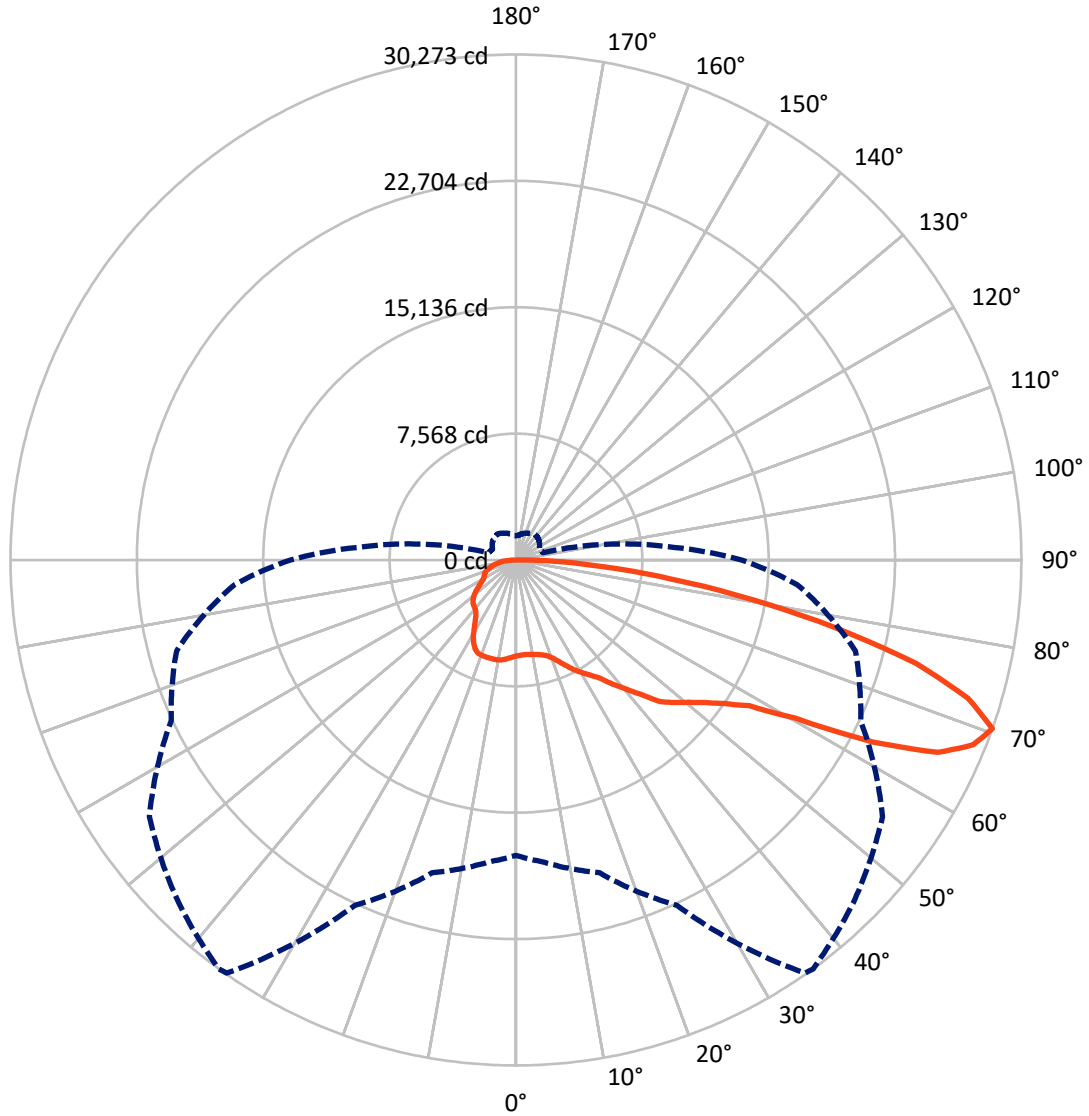
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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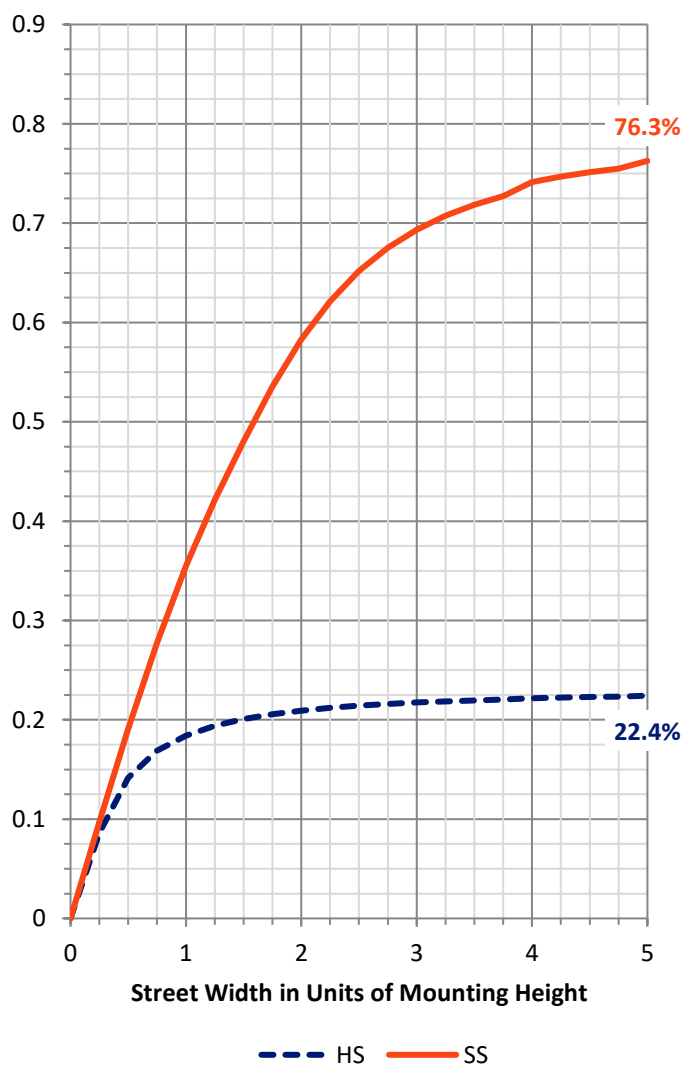
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11948.1	0.0	11948.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	40491.9	0.0	40491.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	52440.0	0.0	52440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	1.1
10°-20°	1720.3	3.3
20°-30°	3103.1	5.9
30°-40°	4806.1	9.2
40°-50°	7300.4	13.9
50°-60°	10118.9	19.3
60°-70°	13158.0	25.1
70°-80°	9717.1	18.5
80°-90°	1959.7	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°	52440.0	100.0
0°-180°	52440.0	100.0

Coefficient of Utilization

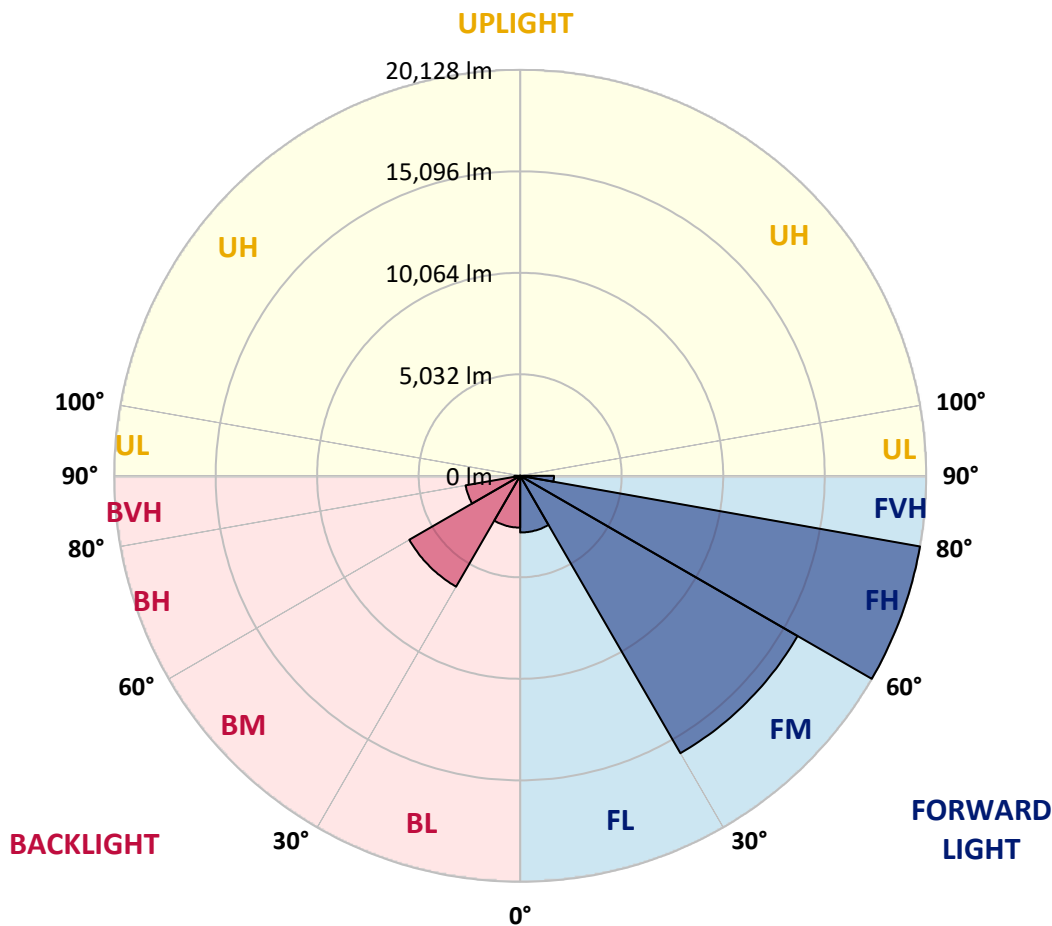


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.3	5.4			
FM (30°-60°)	15878.7	30.3			
FH (60°-80°)	20127.6	38.4			G5
FVH (80°-90°)	1674.2	3.2			G5
BL (0°-30°)	2568.5	4.9	B4/5000		
BM (30°-60°)	6346.7	12.1	B4/8500		
BH (60°-80°)	2747.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	285.5	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°	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7
2.5°	5709.0	5701.4	5697.1	5705.7	5709.0	5710.1	5712.3	5710.1	5704.7	5724.2	5748.1
5°	5710.1	5705.7	5697.1	5689.5	5689.5	5689.5	5690.5	5715.5	5726.4	5724.2	5753.5
7.5°	5718.8	5715.5	5699.2	5693.8	5706.8	5711.2	5732.9	5725.3	5737.2	5756.8	5781.7
10°	5719.9	5715.5	5701.4	5713.3	5750.3	5756.8	5766.5	5788.3	5792.6	5816.5	5841.5
12.5°	5730.7	5730.7	5736.1	5762.2	5801.3	5808.9	5845.8	5863.2	5889.2	5901.2	5931.6
15°	5788.3	5787.2	5800.2	5829.5	5892.5	5896.8	5942.4	5994.6	6014.1	6043.4	6092.3
17.5°	5925.1	5931.6	5932.7	5954.4	6029.3	6031.5	6106.4	6155.3	6199.8	6251.9	6363.7
20°	6249.7	6237.8	6224.7	6224.7	6254.1	6269.3	6326.8	6405.0	6496.2	6588.5	6719.9
22.5°	6658.0	6681.9	6634.1	6609.1	6623.2	6605.8	6649.3	6712.3	6818.7	6956.6	7122.7
25°	7145.5	7147.6	7144.4	7043.4	7011.9	7022.8	7058.6	7117.2	7258.4	7368.1	7609.1
27.5°	7621.0	7611.3	7576.5	7470.1	7439.7	7454.9	7453.8	7615.6	7760.0	7900.1	8183.5
30°	8053.2	8079.2	8017.4	7838.2	7841.5	7839.3	7889.2	8097.7	8361.5	8622.1	8913.1
32.5°	8815.4	8736.1	8652.5	8298.6	8233.4	8225.8	8255.1	8565.7	8956.5	9396.3	9745.9
35°	9533.1	9513.6	9431.0	9071.6	8694.9	8688.4	8648.2	9026.0	9575.4	10389.8	10826.3
37.5°	10267.1	10238.8	10157.4	9851.2	9476.6	9440.8	9103.1	9516.8	10259.5	11551.5	12173.7
40°	11142.2	11124.8	10998.9	10606.9	10222.6	10168.3	9817.6	10032.5	11122.7	13098.8	13537.4
42.5°	11909.9	11906.6	11762.2	11398.5	11071.6	11017.3	10718.8	10942.4	12322.4	14614.5	14872.9
45°	12473.4	12559.1	12565.7	12358.3	12132.4	12084.7	12005.4	12313.8	13710.1	15990.2	15952.2
47.5°	12948.9	13022.8	12945.7	12839.3	12762.2	12765.4	12888.1	13500.5	15080.3	17188.9	16893.6
50°	13743.7	13698.1	13297.5	13234.5	13332.2	13389.8	13745.9	14781.7	16649.3	18313.7	17738.3
52.5°	14890.3	14715.5	13929.4	13801.3	14171.5	14193.2	14760.0	15927.2	18217.1	19279.0	18511.4
55°	16459.2	16314.8	15426.7	14834.9	15021.7	15168.3	15966.3	17100.9	19497.2	20186.7	19106.4
57.5°	18778.5	18789.3	18065.1	16962.0	16326.8	16483.1	17106.4	18242.1	20554.8	20946.7	19477.7
60°	20637.3	20981.5	20765.4	20261.6	19349.6	19243.2	18768.7	19431.0	21458.1	21592.8	19832.7
62.5°	21926.1	22082.5	22825.1	22931.5	23973.9	24018.4	21745.9	20824.1	22450.5	22016.2	19907.7
65°	21861.0	21957.6	23131.3	24560.2	27639.5	27777.4	26447.3	22931.5	23130.2	22205.2	19689.4
67.5°	20338.7	20484.2	21976.1	24647.1	29592.8	29540.6	28697.0	25865.3	23353.9	21902.2	18649.3
70°	17694.9	18143.3	19396.3	22815.4	30203.0	30272.5	28717.6	26802.3	22777.4	21045.6	16915.3
72.5°	14584.1	14725.3	15908.8	19735.0	28419.0	28317.0	27540.7	25565.6	21735.0	19496.2	13880.5
75°	11091.2	11091.2	12524.4	15727.4	24404.9	24763.2	25065.1	23155.2	19255.1	15890.3	9451.7
77.5°	7362.6	7626.5	8780.7	11818.6	19318.1	19583.0	20625.4	19737.2	15765.4	11652.5	4317.0
80°	3905.5	3938.1	5175.9	7853.4	13817.6	14317.0	15750.2	15222.5	11339.8	5459.3	1091.2
82.5°	1365.9	1490.8	2275.8	4551.6	9104.2	9415.8	10448.4	9045.6	4005.4	1208.5	603.7
85°	678.6	702.5	1002.2	2167.2	5125.9	5276.9	6104.2	3523.3	644.9	527.7	410.4
87.5°	326.8	334.4	384.4	775.2	2228.0	2331.2	2468.0	1146.6	238.9	200.9	178.1
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°	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7	5743.7
2.5°	5753.5	5763.3	5781.7	5787.2	5774.1	5798.0	5820.8	5841.5	5840.4	5848.0	5875.1
5°	5766.5	5787.2	5806.7	5841.5	5875.1	5894.7	5913.1	5930.5	5935.9	5952.2	5968.5
7.5°	5806.7	5827.3	5871.9	5932.7	5934.8	5983.7	6015.2	6020.6	6025.0	6025.0	6063.0
10°	5868.6	5906.6	5978.3	6020.6	6058.6	6042.3	6074.9	6054.3	6039.1	6045.6	6071.6
12.5°	5975.0	6008.7	6111.8	6158.5	6123.8	6117.2	6084.7	6038.0	5984.8	5979.4	6003.2
15°	6142.2	6205.2	6297.5	6342.0	6255.1	6178.1	6068.4	5972.8	5869.7	5831.7	5846.9
17.5°	6411.5	6487.5	6588.5	6558.1	6399.6	6247.5	6066.2	5864.3	5664.5	5525.5	5561.3
20°	6805.6	6862.1	6944.6	6821.9	6590.6	6339.8	6042.3	5723.1	5385.4	5132.5	5103.1
22.5°	7219.3	7305.1	7255.1	7028.2	6725.3	6375.7	5992.4	5517.9	4995.6	4678.6	4630.8
25°	7717.7	7745.9	7573.3	7231.3	6763.3	6319.2	5830.6	5218.2	4597.2	4298.6	4284.5
27.5°	8246.5	8182.4	7861.0	7324.6	6720.9	6152.0	5506.0	4744.8	4236.7	3972.8	3931.6
30°	8843.6	8694.9	8098.8	7334.4	6561.3	5826.3	5095.5	4374.6	3943.5	3678.6	3636.3
32.5°	9612.4	9261.7	8319.2	7233.4	6224.7	5348.5	4602.6	4058.6	3679.7	3413.7	3375.7
35°	10595.0	10003.2	8552.6	7051.0	5810.0	4870.8	4194.3	3790.4	3465.8	3145.5	3094.5
37.5°	11727.4	11038.0	8831.7	6820.8	5355.0	4450.6	3918.6	3620.0	3307.3	2944.6	2883.8
40°	13043.4	12073.8	9261.7	6546.1	4946.8	4147.7	3785.0	3561.3	3219.3	2841.5	2772.0
42.5°	14183.5	13169.4	9773.1	6250.8	4561.3	3895.8	3725.3	3522.3	3163.9	2764.4	2685.1
45°	15237.7	14073.8	10272.5	5892.5	4155.3	3723.1	3653.6	3424.5	3066.2	2668.8	2586.3
47.5°	16094.4	14804.5	10706.8	5563.5	3830.6	3564.6	3497.3	3238.9	2902.3	2553.7	2492.9
50°	16752.4	15353.9	10944.6	5301.8	3487.5	3384.4	3295.3	3029.3	2705.7	2405.0	2352.9
52.5°	17425.6	15904.4	11061.9	5314.9	3168.3	3116.2	3025.0	2797.0	2549.4	2318.1	2261.7
55°	17817.5	16130.3	10938.1	4998.9	2875.1	2814.3	2735.1	2616.7	2469.0	2263.8	2210.6
57.5°	18046.6	16270.3	10561.3	4077.1	2522.3	2464.7	2477.7	2468.0	2346.4	2130.3	2081.4
60°	18211.7	15966.3	9789.3	2996.7	2221.5	2178.1	2285.6	2250.8	2145.5	1977.2	1935.9
62.5°	18078.1	15387.6	8399.5	2253.0	1976.1	2068.4	2162.9	2098.8	1955.5	1802.4	1754.6
65°	17263.8	14251.9	6384.3	1810.0	1896.8	2023.9	2099.9	1996.7	1851.2	1669.9	1648.2
67.5°	15781.7	12193.2	3765.5	1659.1	1837.1	1971.8	2034.7	1897.9	1769.8	1596.1	1570.0
70°	13520.1	9128.1	1681.9	1545.1	1732.9	1866.4	1907.7	1778.5	1639.5	1476.7	1450.6
72.5°	10063.0	5503.8	1133.5	1426.7	1578.7	1697.1	1742.7	1605.9	1507.1	1433.2	1425.6
75°	5588.5	1911.0	1045.6	1292.1	1410.4	1516.8	1573.3	1476.7	1398.5	1297.5	1256.2
77.5°	1779.6	812.2	993.5	1155.3	1305.1	1393.0	1384.4	1238.9	1213.9	1091.2	1080.3
80°	710.1	707.9	918.6	945.7	1114.0	1187.8	1168.3	984.8	1017.4	945.7	917.5
82.5°	557.0	648.2	736.2	722.0	866.4	953.3	926.2	723.1	817.6	751.4	687.3
85°	423.5	567.9	472.3	470.1	604.8	707.9	725.3	555.9	557.0	507.1	451.7
87.5°	218.2	209.6	181.3	180.2	202.0	287.7	352.9	316.0	249.7	187.8	180.2
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)