

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: P510397

Luminaire Tested: **CST-CA10-210-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-210-722-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28235 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

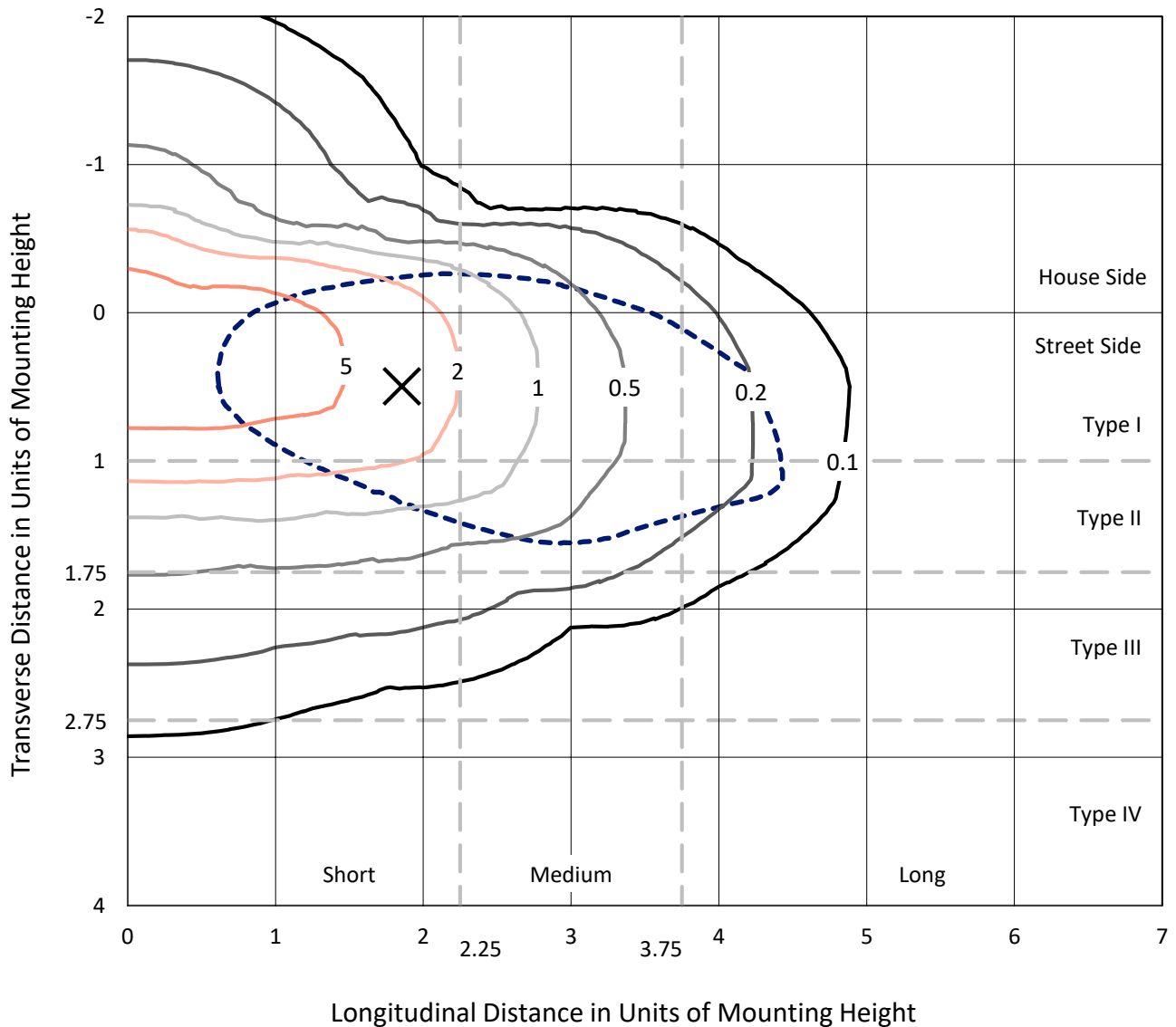
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

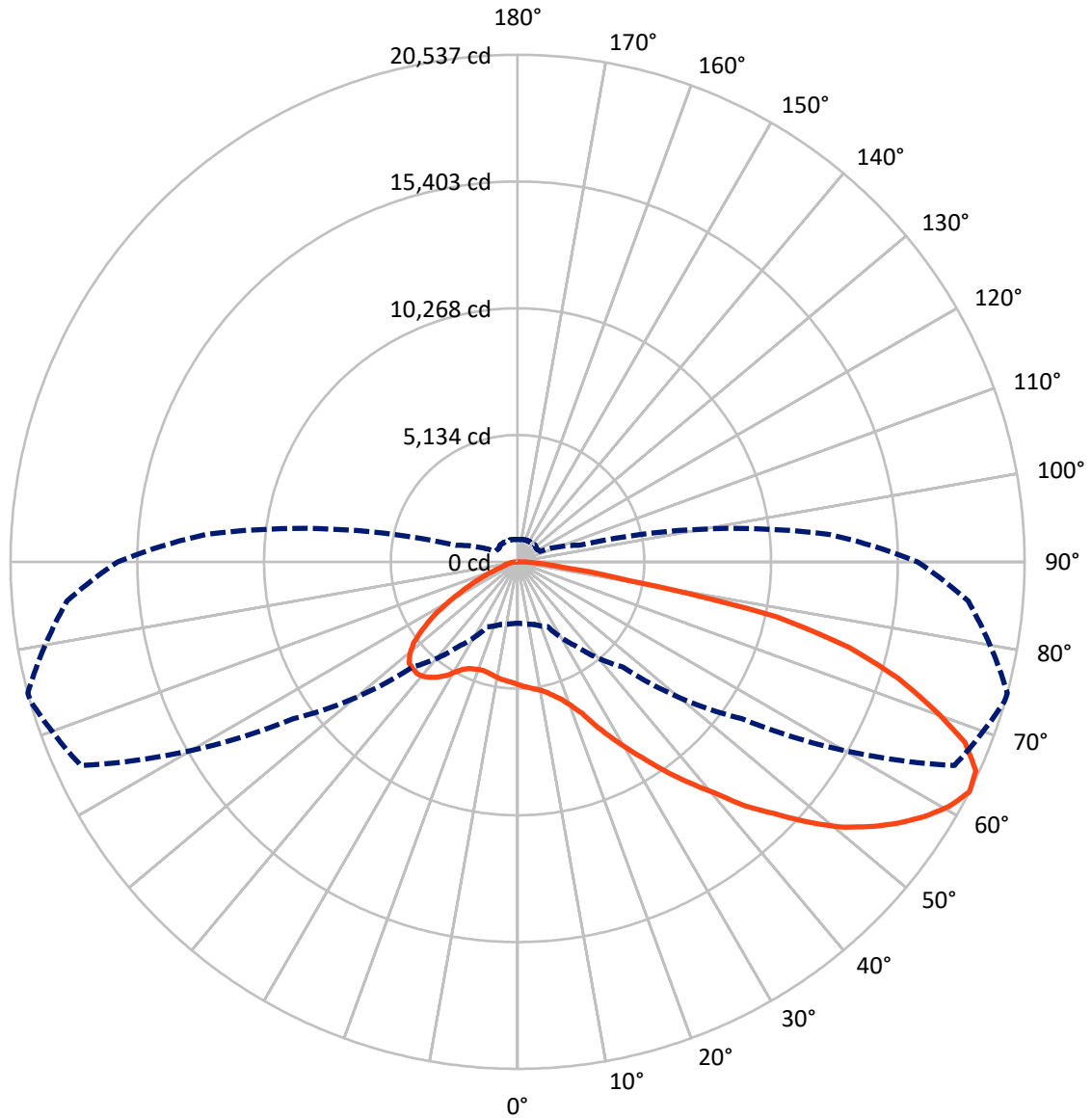
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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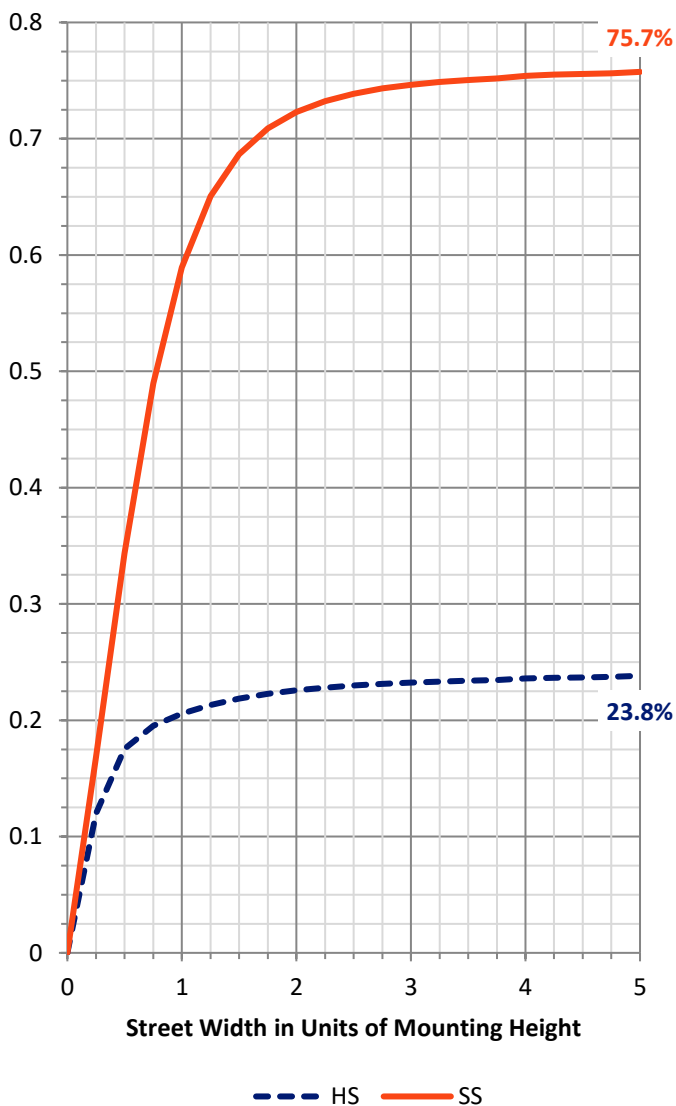
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6840.8	0.0	6840.8
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	21394.2	0.0	21394.2
	% Fixture	75.8	0.0	75.8
Total	Lumens	28235.0	0.0	28235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.8	1.7
10°-20°	1453.2	5.1
20°-30°	2506.4	8.9
30°-40°	3695.7	13.1
40°-50°	4871.8	17.3
50°-60°	5733.6	20.3
60°-70°	5704.4	20.2
70°-80°	3326.6	11.8
80°-90°	464.5	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°	28235.0	100.0
0°-180°	28235.0	100.0

Coefficient of Utilization

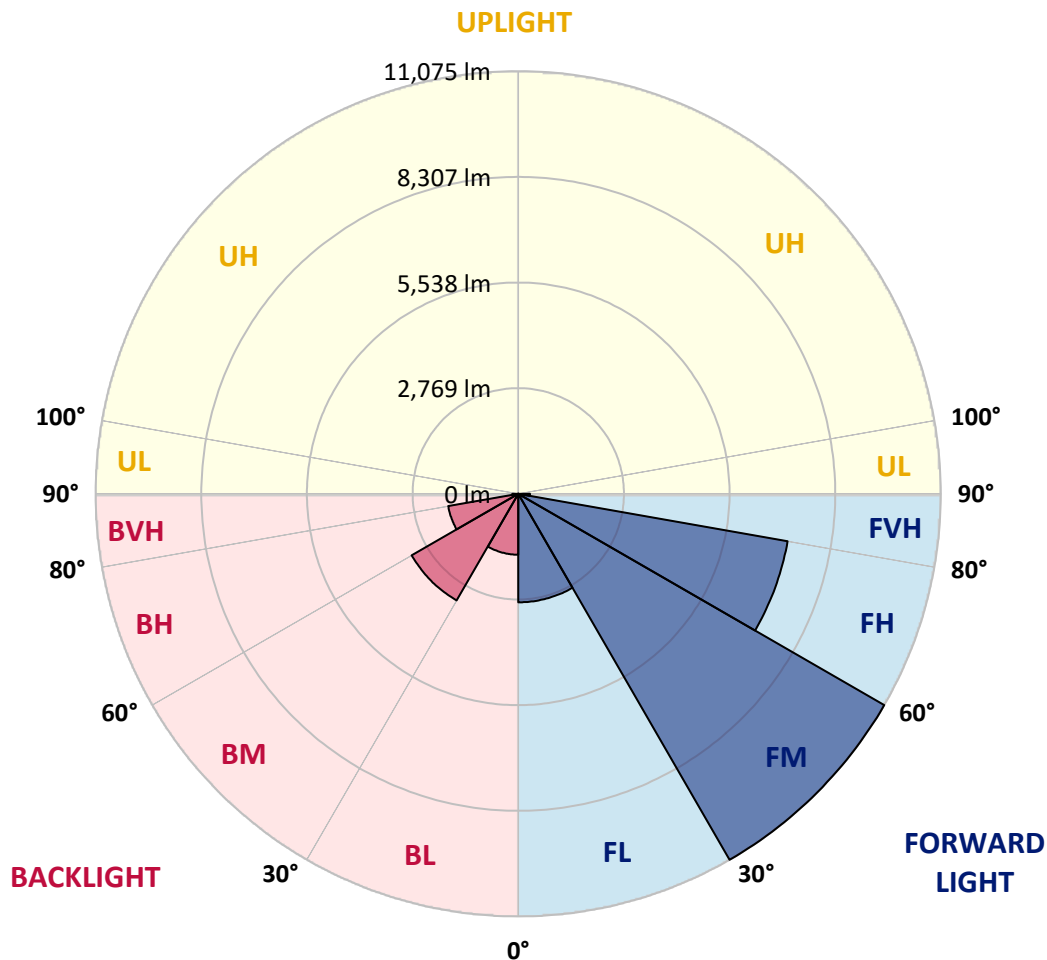


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2843.1	10.1			
FM (30°-60°)	11075.4	39.2			
FH (60°-80°)	7167.3	25.4			G3/7500
FVH (80°-90°)	308.2	1.1			G3/500
BL (0°-30°)	1595.3	5.6	B3/2500		
BM (30°-60°)	3225.7	11.4	B3/5000		
BH (60°-80°)	1863.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	156.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	5249.7	5228.2	5231.1	5216.0	5193.4	5176.5	5132.3	5084.7	5056.2	5053.9	5013.2
5°	5513.5	5520.5	5522.3	5474.0	5426.4	5372.3	5304.9	5213.1	5138.2	5126.5	5047.5
7.5°	5754.1	5753.5	5750.1	5723.3	5701.2	5621.1	5486.2	5342.1	5220.1	5209.0	5080.6
10°	6000.5	5998.8	5963.9	5919.2	5869.2	5795.4	5679.7	5507.2	5309.6	5295.1	5111.4
12.5°	6269.0	6249.8	6227.7	6173.7	6114.4	5986.6	5865.1	5677.4	5471.1	5445.0	5166.0
15°	6490.4	6470.6	6439.8	6403.2	6341.0	6243.4	6114.4	5891.8	5670.4	5644.9	5288.7
17.5°	6709.5	6700.2	6678.1	6639.2	6591.5	6507.2	6388.7	6199.8	5909.9	5878.5	5492.6
20°	6889.0	6866.9	6850.7	6868.7	6872.8	6810.6	6745.5	6586.9	6267.2	6219.0	5743.1
22.5°	6991.3	6986.7	7075.6	7141.8	7168.5	7182.5	7162.1	7034.3	6744.9	6660.7	6091.7
25°	7088.3	7080.8	7201.7	7367.3	7524.8	7605.0	7659.0	7675.8	7410.3	7334.2	6652.5
27.5°	7091.3	7112.2	7287.7	7565.4	7805.4	8050.1	8309.3	8338.9	8105.9	8045.4	7290.6
30°	7106.9	7116.2	7290.0	7609.0	8108.8	8501.0	8838.6	9005.4	8804.4	8776.5	7993.1
32.5°	6907.6	6919.8	7190.0	7685.1	8337.7	8967.7	9415.7	9663.2	9613.3	9577.8	8742.8
35°	6700.2	6710.6	7024.4	7577.1	8508.0	9391.3	9936.9	10423.3	10514.6	10487.8	9579.0
37.5°	6374.7	6409.6	6738.5	7448.1	8537.6	9702.8	10434.4	11180.5	11456.0	11375.8	10463.4
40°	6021.4	6047.0	6430.0	7177.8	8504.5	9907.3	10923.1	12018.5	12352.0	12309.0	11341.5
42.5°	5575.1	5643.7	6027.2	6832.7	8334.2	10034.6	11375.2	12968.6	13453.2	13510.7	12148.1
45°	5199.2	5197.4	5553.6	6332.9	8025.7	10064.8	11791.3	13929.1	14638.1	14530.0	13214.4
47.5°	4756.9	4775.0	5146.9	5835.5	7570.7	9968.9	12115.5	15064.6	15782.3	15723.6	14089.0
50°	3733.6	3863.2	4567.5	5407.8	6955.3	9701.6	12385.7	16170.5	16855.6	16882.3	14883.9
52.5°	3218.8	3268.7	3657.5	4977.2	6409.0	9253.0	12682.1	17414.6	17892.9	17824.9	15786.4
55°	3012.5	3039.2	3225.7	4203.7	5880.8	8558.6	12824.5	18550.7	18701.8	18690.7	16529.0
57.5°	2863.1	2883.5	3015.9	3508.1	5300.9	7667.1	12704.2	19289.9	19524.6	19452.6	17229.8
60°	2647.5	2663.8	2861.4	3161.2	4704.1	6767.0	11964.4	19625.2	20121.4	20094.7	17849.3
62.5°	2485.4	2513.3	2623.7	2905.0	4194.4	6025.5	11082.9	19520.6	20513.1	20536.9	18322.3
65°	2314.0	2339.0	2432.5	2678.3	3732.5	5538.0	10132.2	18996.4	20333.0	20396.3	18399.0
67.5°	2102.4	2121.6	2232.6	2445.3	3192.6	5050.4	9060.0	18069.5	19333.4	19537.4	17635.5
70°	1836.3	1843.3	1979.3	2123.9	2651.0	4315.3	7204.0	16552.3	17887.1	17891.1	16193.7
72.5°	1461.5	1467.3	1503.3	1613.2	1991.5	3415.2	5295.1	13830.4	16128.6	16099.0	14392.3
75°	993.7	1044.8	1169.8	1274.4	1436.5	2398.2	3293.1	9318.1	13664.7	13897.2	11822.1
77.5°	785.1	789.7	841.4	937.3	1077.4	1791.6	1845.6	5155.6	10187.4	10740.0	9292.5
80°	547.4	555.5	527.6	550.9	751.4	1226.1	1078.5	2243.7	4248.5	4536.1	5579.2
82.5°	260.9	270.2	310.3	288.2	373.7	521.3	569.5	1159.3	1835.1	1883.4	2172.2
85°	172.0	172.0	172.6	163.3	217.9	227.2	258.6	494.5	896.1	926.3	921.1
87.5°	55.2	61.0	59.3	69.2	83.7	75.5	79.0	155.2	307.4	304.5	254.5
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°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	4984.2	4960.3	4904.5	4855.7	4807.5	4770.9	4739.5	4697.7	4677.9	4659.9	4697.7
5°	4998.7	4956.3	4856.3	4756.4	4664.5	4597.1	4555.9	4525.7	4498.4	4498.4	4511.1
7.5°	5015.5	4958.0	4815.1	4673.3	4535.5	4458.8	4400.1	4361.8	4339.7	4340.9	4368.2
10°	5026.6	4938.3	4768.0	4576.8	4426.9	4303.7	4246.2	4190.9	4149.1	4124.1	4152.0
12.5°	5039.4	4931.9	4704.6	4489.1	4306.6	4167.1	4047.4	4006.2	3965.5	3934.1	3949.2
15°	5118.4	4956.3	4651.8	4377.5	4166.0	3992.2	3835.3	3759.8	3748.1	3726.6	3731.9
17.5°	5247.4	5021.9	4617.5	4240.9	3996.9	3791.7	3593.0	3495.4	3472.1	3461.1	3466.9
20°	5439.7	5146.9	4627.9	4145.0	3806.3	3576.7	3319.9	3205.4	3128.1	3132.8	3155.4
22.5°	5733.8	5348.5	4684.9	4039.9	3600.0	3298.9	3039.8	2884.0	2806.2	2789.3	2814.9
25°	6202.2	5673.4	4747.6	3939.3	3400.6	2999.1	2712.0	2543.5	2443.6	2437.2	2465.6
27.5°	6802.4	6171.4	4884.2	3852.2	3153.1	2638.8	2353.5	2209.4	2103.0	2090.2	2080.9
30°	7416.7	6724.6	5131.2	3719.7	2864.3	2266.9	2018.8	1906.0	1786.9	1738.7	1749.1
32.5°	8067.5	7240.0	5420.6	3626.7	2541.2	1939.7	1724.1	1616.6	1507.4	1437.7	1421.4
35°	8723.0	7752.6	5664.1	3487.8	2234.9	1680.0	1473.7	1362.7	1267.4	1210.4	1206.4
37.5°	9490.1	8286.0	5859.3	3340.2	1917.1	1476.6	1228.5	1164.5	1118.6	1068.7	1073.9
40°	10258.3	8907.8	6015.6	3096.1	1653.3	1258.1	1045.4	1058.2	1068.1	1026.2	1022.7
42.5°	10896.3	9430.2	6087.1	2780.0	1419.6	1068.1	964.6	1022.7	1065.8	1038.4	1035.0
45°	11544.3	9870.1	6059.2	2387.8	1225.6	977.4	958.2	1017.5	1072.7	1066.3	1063.4
47.5°	12248.6	10446.6	6011.0	1940.9	1086.7	968.7	972.2	1000.1	1069.8	1081.4	1076.8
50°	13109.8	10977.1	5725.7	1511.5	1019.3	982.7	1003.6	989.0	1048.3	1072.1	1076.2
52.5°	13966.9	11385.6	5343.9	1309.8	992.5	996.0	1047.2	997.8	1023.9	1044.8	1064.0
55°	14628.2	11801.7	4726.1	1188.4	983.8	1002.4	1059.4	1016.4	1015.8	1015.8	1022.2
57.5°	15305.2	12359.0	4108.4	1109.9	968.7	1009.4	1044.8	1019.8	1011.7	1000.1	992.5
60°	15776.5	12565.3	3314.6	1058.2	953.0	999.5	1004.2	1000.7	975.7	964.6	955.9
62.5°	16194.9	12677.4	2580.7	998.9	931.5	976.3	951.9	944.3	929.8	903.0	907.7
65°	16082.7	12436.9	1966.5	932.1	916.4	948.4	905.9	887.9	889.1	861.2	870.5
67.5°	15361.0	11357.7	1412.1	829.8	875.1	893.2	853.6	840.3	820.5	806.6	819.4
70°	13903.0	10068.3	952.4	688.6	781.0	819.9	793.8	770.5	739.7	730.5	744.4
72.5°	11701.8	8404.6	657.2	553.8	674.1	724.6	714.8	690.9	668.9	691.5	718.8
75°	9613.3	6217.9	536.4	453.8	518.3	603.8	632.8	639.8	706.0	926.9	949.5
77.5°	6919.8	3854.5	482.3	369.0	413.7	482.9	541.0	564.8	862.4	825.8	824.0
80°	4034.6	2246.6	367.8	291.1	334.7	353.9	423.0	663.0	743.8	638.1	622.4
82.5°	1840.9	991.4	256.3	233.0	232.4	234.2	288.2	638.1	570.6	502.7	484.1
85°	677.0	348.7	155.7	134.8	154.6	134.2	188.9	467.8	330.7	325.4	271.4
87.5°	166.8	71.5	52.9	44.2	36.0	34.3	57.5	154.0	80.8	73.8	70.9
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)