

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: P510639

Luminaire Tested: **CST-CA6-230-722-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA6-230-722-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28138 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

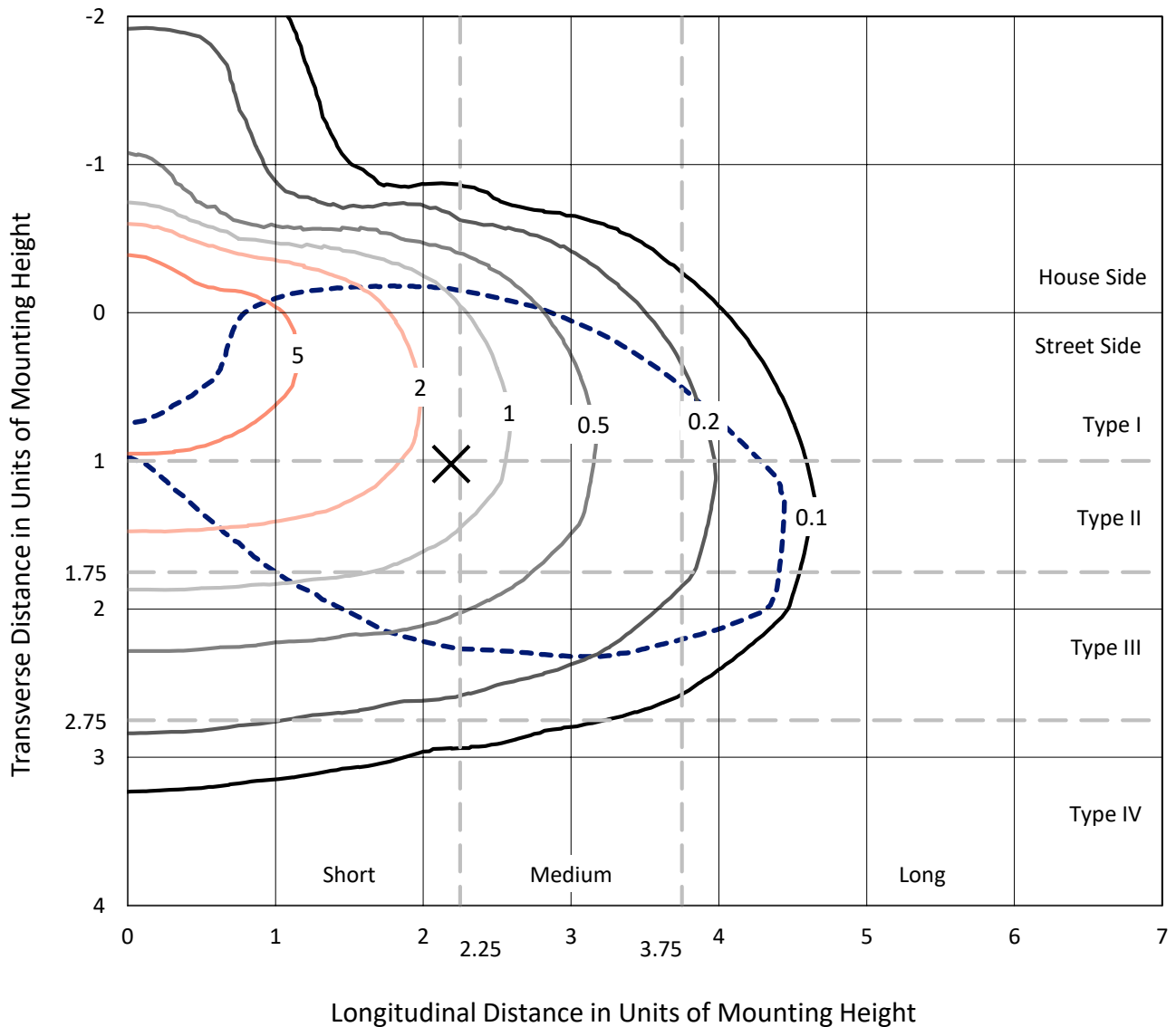
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

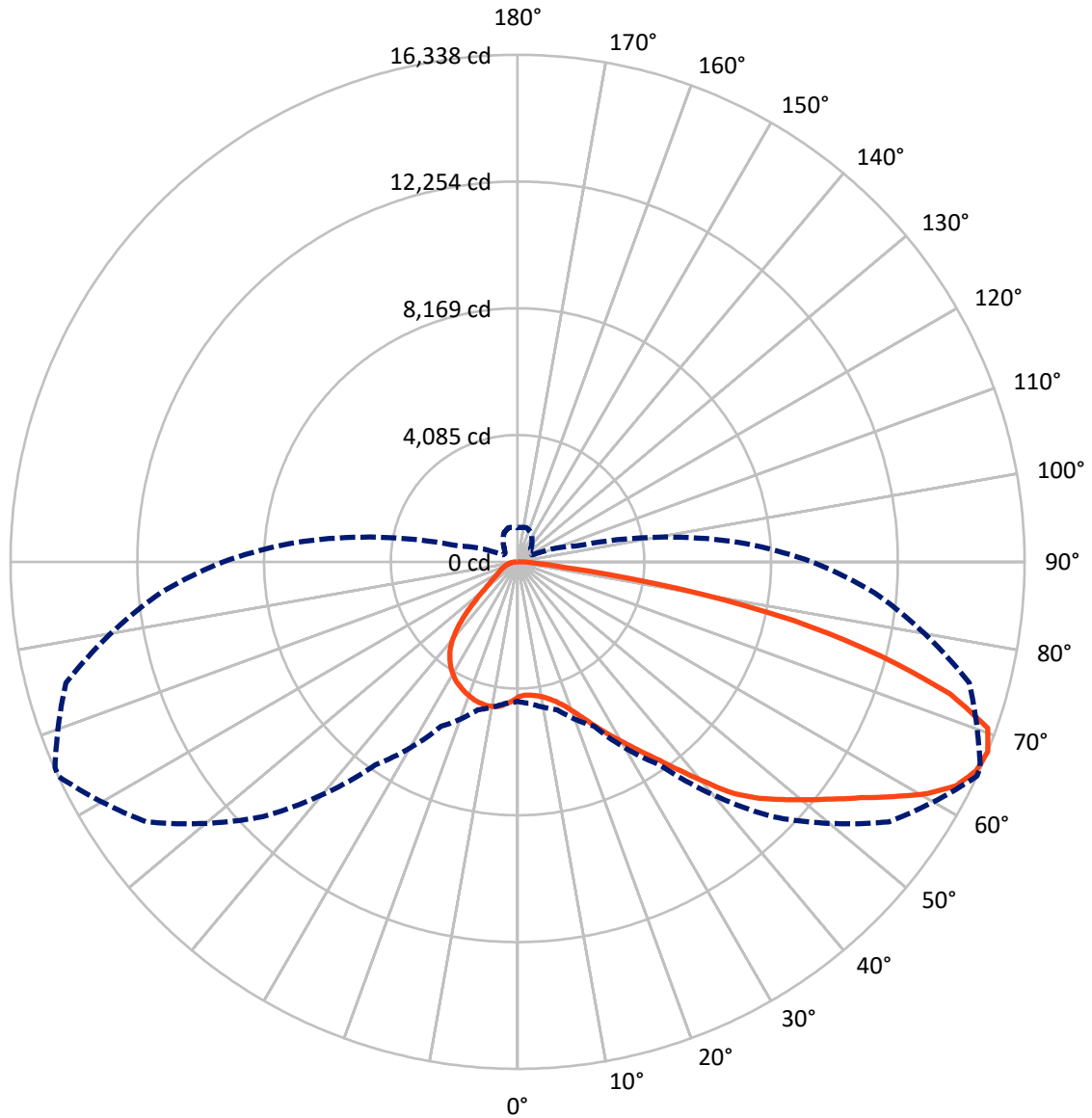
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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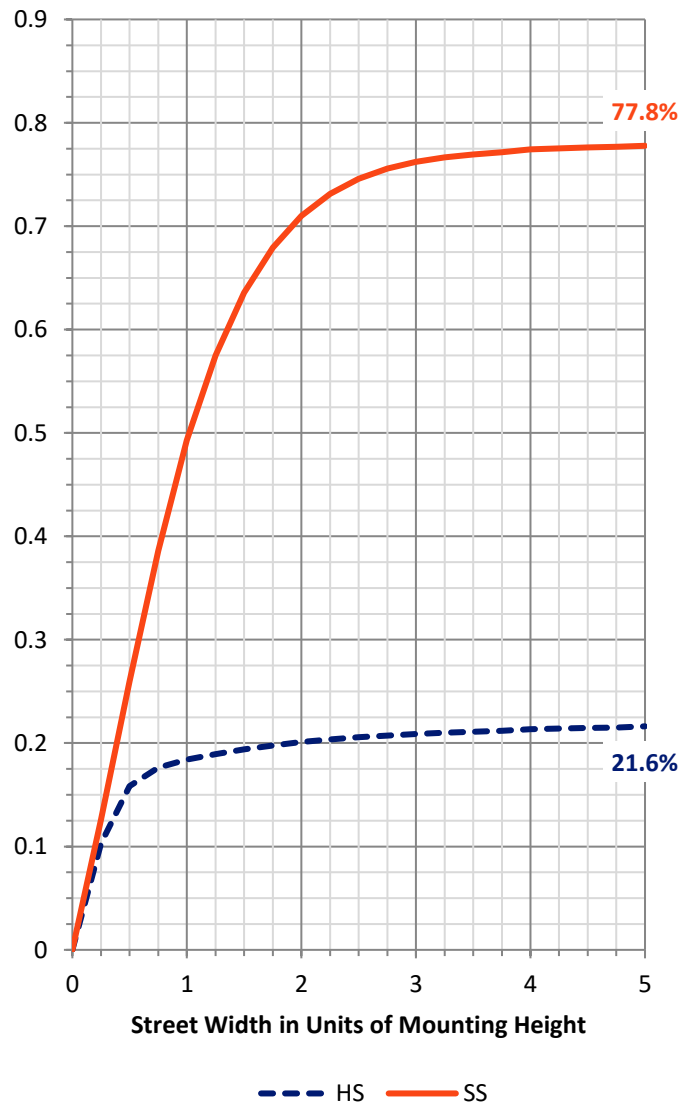
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6215.3	0.0	6215.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21922.7	0.0	21922.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	28138.0	0.0	28138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	1.5
10°-20°	1353.0	4.8
20°-30°	2342.1	8.3
30°-40°	3441.5	12.2
40°-50°	4651.7	16.5
50°-60°	5720.2	20.3
60°-70°	6129.5	21.8
70°-80°	3615.1	12.8
80°-90°	451.9	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°	28138.0	100.0
0°-180°	28138.0	100.0

Coefficient of Utilization

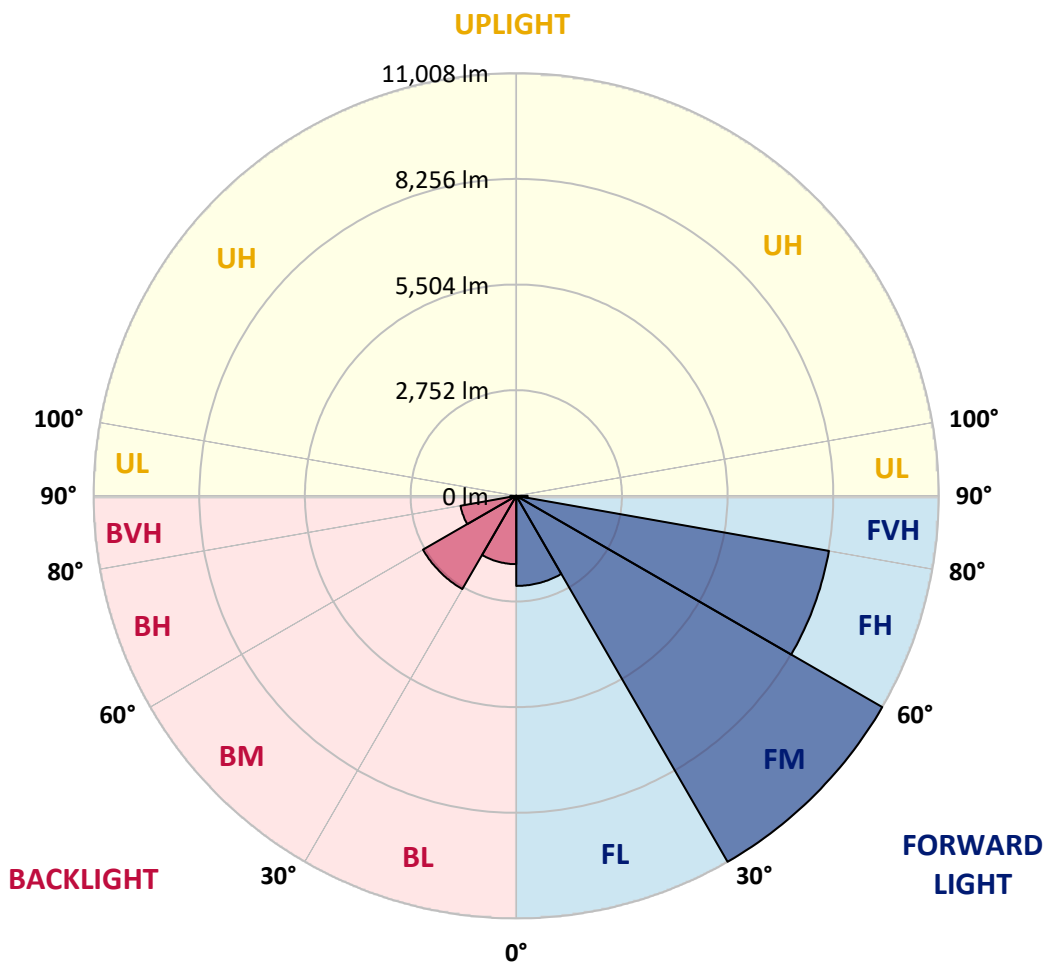


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2347.9	8.3			
FM (30°-60°)	11007.8	39.1			
FH (60°-80°)	8270.7	29.4			G4/12000
FVH (80°-90°)	296.3	1.1			G3/500
BL (0°-30°)	1780.2	6.3	B3/2500		
BM (30°-60°)	2805.6	10.0	B3/5000		
BH (60°-80°)	1474.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	155.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3
2.5°	4264.2	4256.2	4252.7	4263.6	4271.7	4280.9	4294.0	4306.7	4308.4	4325.0	4346.8
5°	4315.8	4309.0	4301.5	4299.8	4296.9	4296.3	4299.8	4314.1	4317.6	4333.6	4380.7
7.5°	4430.6	4423.7	4409.9	4404.8	4389.3	4361.7	4348.5	4356.0	4357.7	4377.2	4435.7
10°	4617.6	4596.4	4579.7	4562.5	4513.8	4470.2	4438.0	4424.3	4421.4	4440.3	4508.0
12.5°	4840.8	4823.0	4804.6	4759.3	4697.4	4618.8	4562.0	4530.4	4528.1	4544.2	4595.2
15°	5076.6	5076.6	5063.9	5010.0	4949.2	4819.0	4731.2	4678.4	4681.9	4694.5	4718.0
17.5°	5381.2	5355.9	5350.2	5288.8	5221.1	5102.4	4963.0	4878.6	4882.7	4888.4	4870.6
20°	5691.0	5683.5	5674.9	5634.2	5572.8	5420.2	5263.6	5152.9	5153.4	5132.8	5053.6
22.5°	6100.6	6075.9	6082.2	6036.3	5953.2	5796.5	5616.4	5485.0	5493.6	5463.8	5320.4
25°	6507.3	6482.7	6469.5	6438.5	6366.8	6218.2	6004.2	5883.7	5873.4	5819.5	5611.2
27.5°	6913.5	6899.2	6910.1	6872.8	6814.3	6648.5	6452.3	6318.6	6325.5	6288.2	5977.8
30°	7334.0	7318.0	7365.6	7305.3	7269.2	7108.0	6919.8	6762.6	6768.4	6782.1	6433.9
32.5°	7651.3	7670.2	7753.4	7746.5	7739.6	7560.1	7362.1	7274.9	7283.5	7331.7	6975.5
35°	7957.6	7959.3	8076.4	8164.7	8202.0	8051.7	7846.3	7843.5	7899.7	8046.5	7730.4
37.5°	8211.8	8206.0	8362.1	8499.2	8601.3	8484.8	8371.8	8547.9	8599.0	8903.6	8490.6
40°	8350.6	8362.6	8563.4	8734.4	8935.2	8880.1	8892.2	9342.5	9468.1	9734.9	9059.1
42.5°	8253.1	8289.8	8602.4	8951.2	9254.1	9327.6	9569.7	10200.7	10254.1	10302.3	9618.4
45°	8089.6	8128.0	8474.5	9037.9	9517.5	9827.8	10243.8	10861.0	10919.6	10865.6	10083.7
47.5°	7919.2	7958.8	8344.9	9002.9	9735.5	10330.4	10843.3	11445.1	11519.6	11352.7	10531.2
50°	7702.9	7764.3	8186.5	8928.9	9912.2	10872.5	11410.6	12046.3	12080.7	11839.8	10870.2
52.5°	7436.7	7504.4	7961.1	8802.1	10050.4	11251.2	11984.9	12698.6	12695.1	12408.9	11258.0
55°	7156.7	7218.1	7688.6	8602.4	10127.9	11542.6	12443.8	13417.4	13458.7	13218.9	11609.1
57.5°	6798.2	6853.8	7366.7	8334.0	10047.6	11789.8	13187.3	14271.6	14292.3	13782.8	11888.5
60°	6323.2	6405.2	6920.4	7992.6	9816.9	12076.1	14006.6	15170.0	15195.3	14337.6	12068.1
62.5°	5801.7	5834.4	6359.3	7467.1	9481.3	12297.0	14574.5	15872.8	15836.1	14771.3	12122.0
65°	5166.1	5191.9	5646.2	6791.3	8857.7	12175.9	14778.2	16234.2	16188.9	15043.8	11956.2
67.5°	4500.6	4580.3	4937.2	5853.9	7987.4	11617.2	14606.1	16338.0	16315.1	15064.5	11560.4
70°	3636.6	3664.7	3987.1	4769.1	6664.5	10498.5	14032.4	16071.8	16054.1	14603.2	10752.0
72.5°	2564.4	2536.8	2693.5	3306.7	4813.8	8351.2	11980.9	14576.2	14606.1	13063.4	9363.1
75°	1361.4	1414.1	1658.0	2024.5	2729.0	5368.6	9551.9	12063.5	12053.2	10923.6	7401.1
77.5°	725.1	724.0	891.5	1048.1	1336.1	2466.9	6300.2	9097.5	9148.0	8463.6	5081.7
80°	348.2	361.4	371.7	426.2	666.1	1139.9	2635.5	5275.6	5619.8	5047.9	2414.1
82.5°	278.8	280.0	281.1	269.1	275.4	464.1	1015.4	1526.6	1581.7	1271.3	778.5
85°	206.5	193.9	192.2	162.9	184.2	278.8	512.3	651.7	619.6	602.9	439.4
87.5°	83.2	78.0	75.7	71.1	71.1	105.0	180.7	235.8	235.2	214.6	147.4
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°	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3	4346.3
2.5°	4364.0	4384.7	4432.9	4474.2	4489.7	4527.5	4563.1	4583.8	4598.1	4606.7	4645.7
5°	4409.4	4450.7	4527.5	4585.5	4641.7	4711.7	4757.0	4785.7	4801.8	4810.9	4839.1
7.5°	4478.8	4520.7	4602.1	4691.0	4742.7	4800.0	4829.3	4850.0	4860.3	4857.4	4879.8
10°	4540.7	4582.0	4663.5	4731.8	4761.0	4793.7	4809.2	4813.8	4814.4	4816.7	4839.1
12.5°	4625.1	4650.3	4693.9	4738.7	4732.3	4733.5	4746.7	4741.0	4727.8	4725.5	4740.4
15°	4715.7	4716.3	4719.7	4710.0	4670.4	4653.2	4634.8	4619.3	4583.2	4580.9	4604.4
17.5°	4829.3	4802.3	4739.8	4673.3	4579.2	4514.3	4448.9	4422.0	4377.8	4369.2	4380.7
20°	4975.6	4919.4	4767.3	4602.1	4426.0	4310.1	4230.9	4151.2	4089.8	4074.9	4085.8
22.5°	5185.6	5074.8	4802.3	4526.4	4253.9	4056.0	3902.2	3806.4	3703.2	3650.4	3655.5
25°	5439.1	5265.9	4863.1	4430.6	4051.4	3765.7	3516.1	3323.9	3207.5	3130.0	3150.7
27.5°	5771.3	5533.2	4936.0	4335.9	3799.5	3394.5	3032.5	2772.1	2653.3	2616.6	2592.5
30°	6156.2	5856.2	5012.9	4195.9	3527.6	2935.0	2471.4	2254.6	2118.6	2096.8	2078.5
32.5°	6671.4	6262.9	5156.9	4043.9	3202.9	2475.5	1972.3	1722.8	1691.8	1674.0	1670.0
35°	7335.7	6795.9	5307.8	3846.6	2779.5	1936.8	1492.2	1357.3	1342.4	1361.9	1363.7
37.5°	8040.8	7374.2	5488.5	3624.0	2292.5	1445.1	1141.6	1048.1	1064.8	1125.6	1139.3
40°	8518.1	7755.1	5652.5	3321.6	1690.7	1049.8	830.7	810.6	902.4	980.4	996.5
42.5°	8975.9	8043.7	5719.1	2921.8	1205.9	747.5	670.6	739.5	868.0	953.5	964.9
45°	9366.6	8379.3	5551.6	2442.2	817.5	624.7	642.5	737.8	880.6	975.3	983.9
47.5°	9738.3	8653.5	5322.7	1924.1	644.8	601.2	642.0	753.3	908.7	998.2	1003.4
50°	10093.5	8862.3	4932.0	1464.0	604.1	590.3	647.1	777.3	924.2	980.4	978.1
52.5°	10356.8	8970.2	4516.1	1181.8	588.0	581.7	660.9	807.8	927.1	960.9	958.6
55°	10550.1	8949.5	4243.0	967.8	574.8	578.3	683.3	830.7	954.6	1005.7	1004.0
57.5°	10567.9	8856.0	3932.6	817.5	558.8	577.7	707.4	862.8	1092.3	1186.4	1157.7
60°	10546.7	8701.1	3622.8	717.7	541.0	581.1	732.6	959.2	1290.8	1364.8	1344.7
62.5°	10442.3	8412.5	3158.7	651.7	525.5	593.8	751.5	1035.5	1281.0	1289.6	1261.0
65°	10119.8	8026.5	2549.5	585.2	510.0	602.4	767.0	1055.6	1176.6	1149.1	1134.8
67.5°	9481.9	7164.2	1966.6	524.4	489.9	600.7	812.9	1026.9	1137.0	1117.0	1098.6
70°	8575.5	6184.3	1365.4	461.8	456.1	589.8	801.4	1036.7	1118.1	1087.1	1062.5
72.5°	7164.2	4851.7	868.6	410.8	405.6	563.9	772.8	1030.3	1105.5	1091.7	1057.9
75°	5394.4	3386.5	551.9	355.1	360.8	516.9	726.9	996.5	1099.2	1056.2	991.3
77.5°	3396.2	1671.7	429.1	301.8	310.4	445.8	628.2	870.3	1055.0	1029.2	946.0
80°	1284.5	678.7	335.6	245.0	252.4	346.5	515.2	716.0	971.3	1013.7	978.1
82.5°	591.5	424.5	251.8	196.8	199.6	252.4	384.4	530.1	822.1	930.5	1019.4
85°	345.4	278.2	168.1	131.4	136.5	149.2	216.3	323.6	533.0	709.7	794.0
87.5°	117.6	97.0	65.4	55.6	53.9	61.4	52.2	106.1	158.3	278.8	318.4
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)