

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: P510637

Luminaire Tested: **CST-CA6-230-722-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510637
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-CA6-230-722-U-T2
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: 27874 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

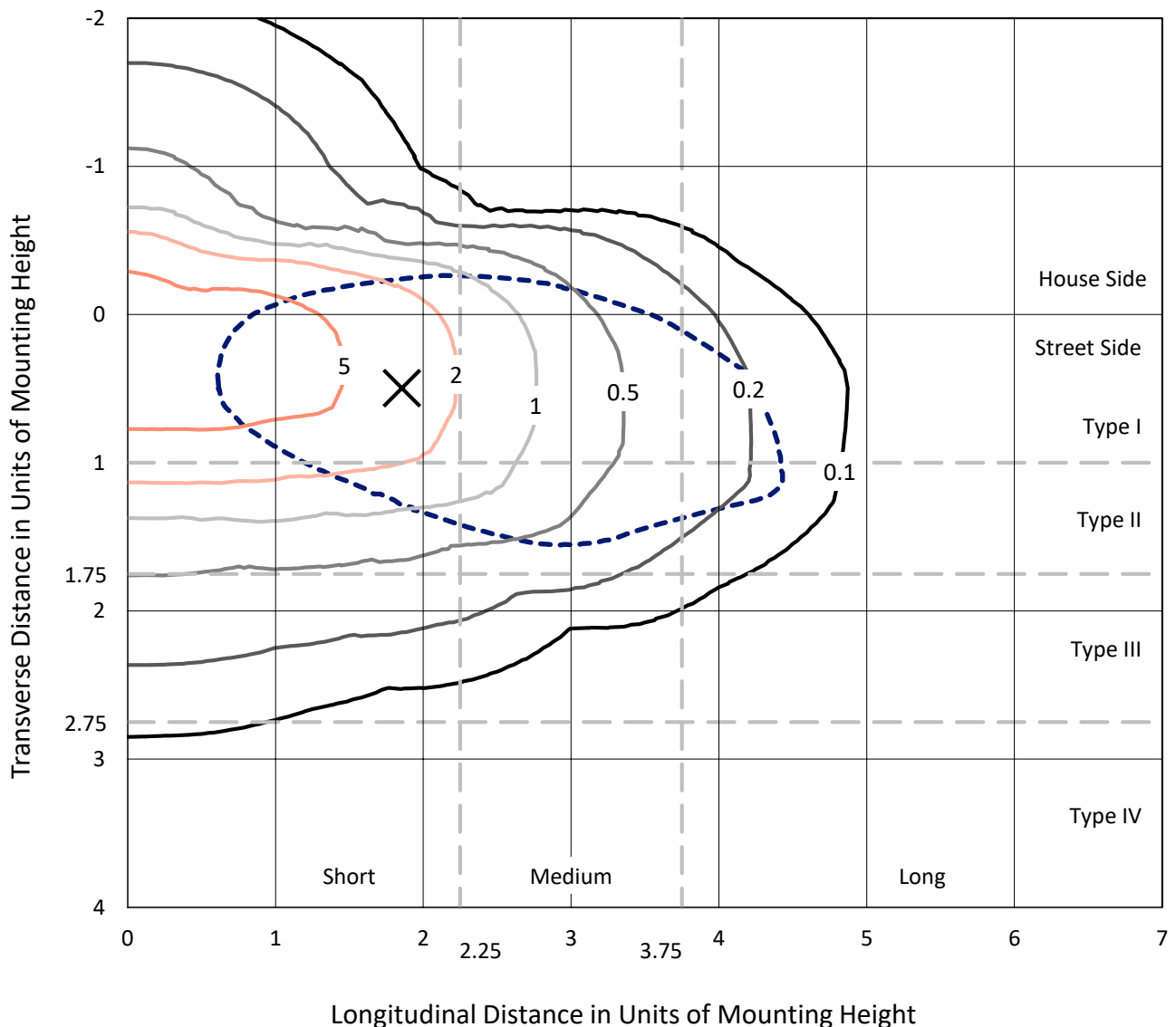
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

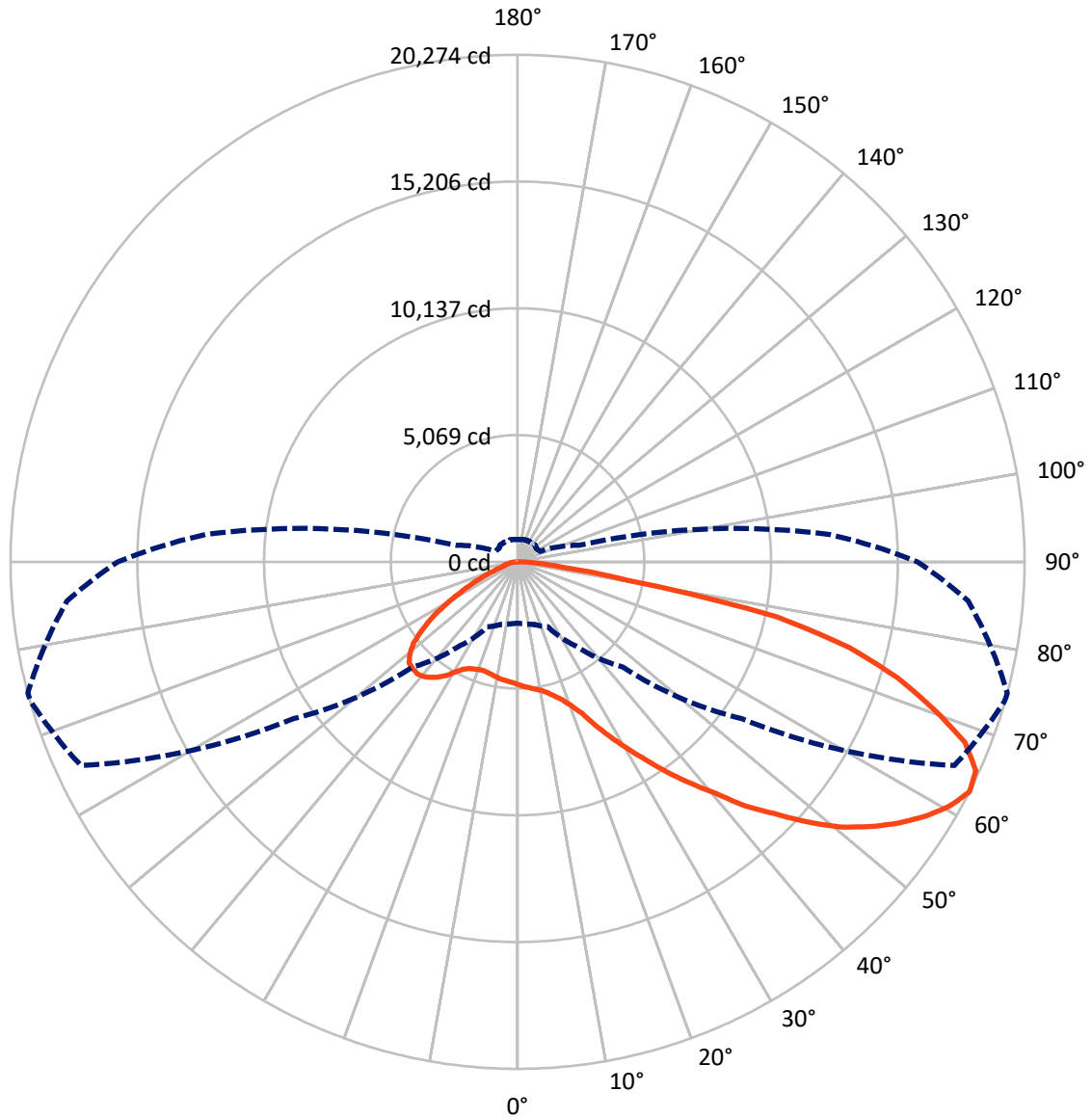
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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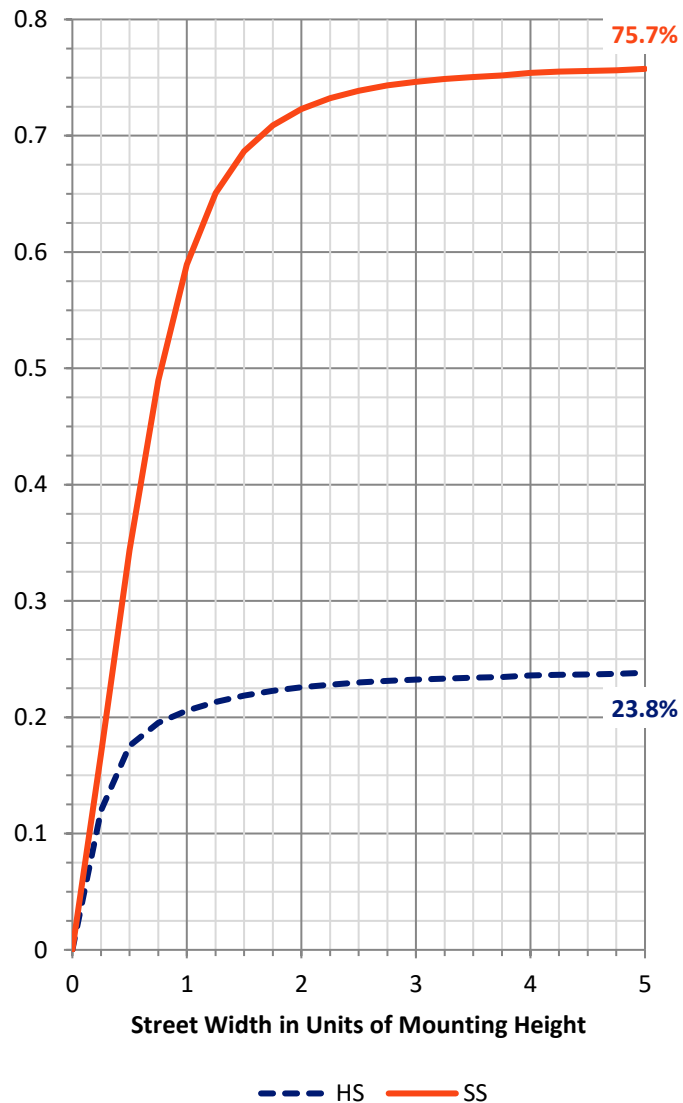
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6753.4	0.0	6753.4
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	21120.6	0.0	21120.6
	% Fixture	75.8	0.0	75.8
Total	Lumens	27874.0	0.0	27874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	1.7
10°-20°	1434.6	5.1
20°-30°	2474.3	8.9
30°-40°	3648.5	13.1
40°-50°	4809.5	17.3
50°-60°	5660.3	20.3
60°-70°	5631.5	20.2
70°-80°	3284.1	11.8
80°-90°	458.6	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°	27874.0	100.0
0°-180°	27874.0	100.0

Coefficient of Utilization



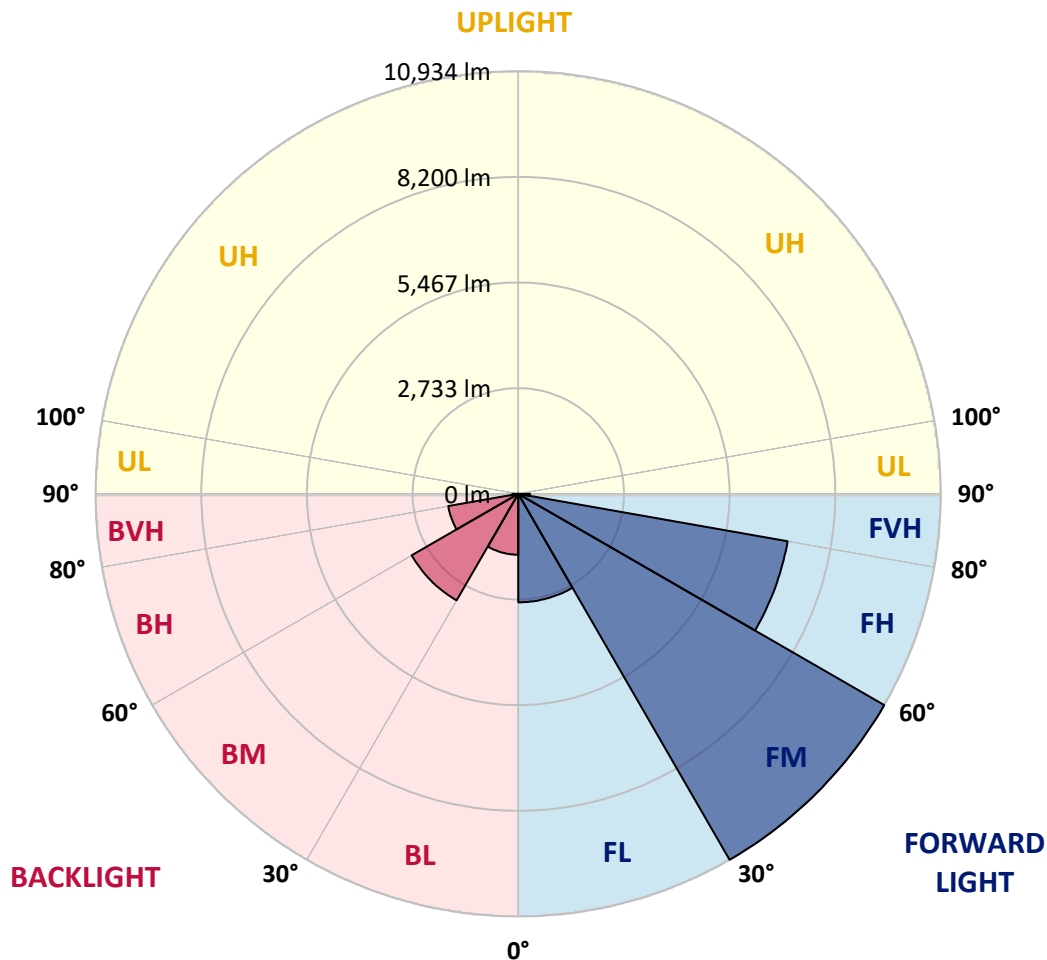
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.8	10.1			
FM (30°-60°)	10933.8	39.2			
FH (60°-80°)	7075.7	25.4			G3/7500
FVH (80°-90°)	304.3	1.1			G3/500
BL (0°-30°)	1574.9	5.6	B3/2500		
BM (30°-60°)	3184.4	11.4	B3/5000		
BH (60°-80°)	1839.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	154.3	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°	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5
2.5°	5182.6	5161.4	5164.2	5149.3	5127.0	5110.3	5066.7	5019.7	4991.6	4989.3	4949.1
5°	5443.1	5449.9	5451.7	5404.0	5357.0	5303.7	5237.1	5146.5	5072.5	5061.0	4983.0
7.5°	5680.6	5680.0	5676.5	5650.2	5628.4	5549.2	5416.1	5273.8	5153.3	5142.4	5015.7
10°	5923.8	5922.1	5887.7	5843.5	5794.1	5721.3	5607.1	5436.7	5241.7	5227.4	5046.1
12.5°	6188.8	6169.9	6148.1	6094.8	6036.2	5910.0	5790.1	5604.8	5401.2	5375.4	5100.0
15°	6407.4	6387.9	6357.5	6321.4	6260.0	6163.6	6036.2	5816.5	5597.9	5572.7	5221.0
17.5°	6623.7	6614.5	6592.7	6554.3	6507.2	6424.0	6307.0	6120.6	5834.3	5803.3	5422.4
20°	6800.9	6779.1	6763.1	6780.9	6784.9	6723.5	6659.3	6502.6	6187.1	6139.5	5669.7
22.5°	6901.9	6897.3	6985.1	7050.5	7076.9	7090.7	7070.6	6944.4	6658.7	6575.5	6013.9
25°	6997.7	6990.3	7109.6	7273.1	7428.6	7507.7	7561.1	7577.7	7315.5	7240.4	6567.5
27.5°	7000.6	7021.2	7194.5	7468.7	7705.6	7947.2	8203.0	8232.3	8002.2	7942.6	7197.4
30°	7016.1	7025.3	7196.8	7511.7	8005.1	8392.3	8725.6	8890.3	8691.8	8664.3	7890.9
32.5°	6819.3	6831.4	7098.1	7586.9	8231.1	8853.0	9295.3	9539.7	9490.4	9455.4	8631.0
35°	6614.5	6624.8	6934.6	7480.2	8399.2	9271.2	9809.9	10290.1	10380.1	10353.7	9456.5
37.5°	6293.2	6327.7	6652.4	7352.8	8428.5	9578.7	10301.0	11037.6	11309.5	11230.3	10329.6
40°	5944.4	5969.7	6347.7	7086.1	8395.8	9780.6	10783.4	11864.8	12194.1	12151.6	11196.5
42.5°	5503.9	5571.6	5950.2	6745.3	8227.7	9906.3	11229.7	12802.8	13281.2	13338.0	11992.7
45°	5132.7	5131.0	5482.6	6251.9	7923.1	9936.1	11640.5	13751.1	14450.9	14344.2	13045.4
47.5°	4696.1	4713.9	5081.1	5760.9	7473.9	9841.4	11960.6	14872.0	15580.5	15522.6	13908.8
50°	3685.9	3813.8	4509.1	5338.6	6866.3	9577.5	12227.4	15963.7	16640.1	16666.5	14693.6
52.5°	3177.6	3226.9	3610.7	4913.5	6327.1	9134.7	12519.9	17192.0	17664.1	17597.0	15584.5
55°	2973.9	3000.3	3184.5	4150.0	5805.6	8449.1	12660.5	18313.5	18462.7	18451.8	16317.7
57.5°	2826.5	2846.6	2977.4	3463.3	5233.1	7569.1	12541.7	19043.2	19275.0	19203.9	17009.5
60°	2613.7	2629.7	2824.8	3120.8	4643.9	6680.5	11811.5	19374.2	19864.2	19837.8	17621.1
62.5°	2453.6	2481.2	2590.2	2867.8	4140.8	5948.5	10941.2	19271.0	20250.8	20274.3	18088.1
65°	2284.4	2309.1	2401.4	2644.1	3684.7	5467.1	10002.6	18753.5	20073.0	20135.5	18163.8
67.5°	2075.6	2094.5	2204.1	2414.0	3151.8	4985.8	8944.2	17838.5	19086.3	19287.6	17410.0
70°	1812.8	1819.7	1953.9	2096.8	2617.1	4260.1	7111.9	16340.6	17658.4	17662.4	15986.7
72.5°	1442.8	1448.5	1484.1	1592.5	1966.0	3371.5	5227.4	13653.5	15922.4	15893.2	14208.3
75°	981.0	1031.5	1154.8	1258.1	1418.1	2367.6	3251.0	9198.9	13490.0	13719.5	11670.9
77.5°	775.0	779.6	830.7	925.3	1063.6	1768.6	1822.0	5089.7	10057.1	10602.7	9173.7
80°	540.4	548.4	520.9	543.8	741.8	1210.5	1064.7	2215.0	4194.2	4478.1	5507.9
82.5°	257.6	266.8	306.3	284.5	368.9	514.6	562.2	1144.5	1811.7	1859.3	2144.4
85°	169.8	169.8	170.4	161.2	215.1	224.3	255.3	488.2	884.6	914.4	909.3
87.5°	54.5	60.2	58.5	68.3	82.6	74.6	78.0	153.2	303.5	300.6	251.3
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°	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5	4913.5
2.5°	4920.4	4896.9	4841.8	4793.7	4746.0	4709.9	4678.9	4637.6	4618.1	4600.3	4637.6
5°	4934.8	4892.9	4794.2	4695.6	4604.9	4538.4	4497.6	4467.8	4440.8	4440.8	4453.5
7.5°	4951.4	4894.6	4753.5	4613.5	4477.6	4401.8	4343.9	4306.0	4284.2	4285.4	4312.3
10°	4962.3	4875.1	4707.0	4518.3	4370.3	4248.7	4191.9	4137.4	4096.1	4071.4	4098.9
12.5°	4974.9	4868.8	4644.5	4431.7	4251.5	4113.8	3995.7	3954.9	3914.8	3883.8	3898.7
15°	5053.0	4892.9	4592.3	4321.5	4112.7	3941.2	3786.3	3711.7	3700.2	3679.0	3684.2
17.5°	5180.3	4957.7	4558.4	4186.7	3945.8	3743.2	3547.0	3450.7	3427.7	3416.8	3422.6
20°	5370.2	5081.1	4568.8	4092.0	3757.6	3531.0	3277.4	3164.4	3088.1	3092.7	3115.1
22.5°	5660.5	5280.1	4625.0	3988.2	3553.9	3256.8	3000.9	2847.2	2770.3	2753.7	2778.9
25°	6122.9	5600.8	4686.9	3889.0	3357.2	2960.8	2677.4	2511.0	2412.3	2406.0	2434.1
27.5°	6715.5	6092.5	4821.8	3802.9	3112.8	2605.1	2323.4	2181.1	2076.1	2063.5	2054.3
30°	7321.8	6638.6	5065.6	3672.1	2827.7	2237.9	1993.0	1881.7	1764.1	1716.4	1726.8
32.5°	7964.4	7147.5	5351.3	3580.3	2508.7	1914.9	1702.1	1596.0	1488.1	1419.3	1403.2
35°	8611.5	7653.4	5591.6	3443.2	2206.4	1658.5	1454.8	1345.3	1251.2	1195.0	1191.0
37.5°	9368.7	8180.1	5784.4	3297.5	1892.6	1457.7	1212.8	1149.7	1104.3	1055.0	1060.2
40°	10127.1	8793.9	5938.7	3056.6	1632.1	1242.0	1032.0	1044.7	1054.4	1013.1	1009.7
42.5°	10757.0	9309.6	6009.3	2744.5	1401.5	1054.4	952.3	1009.7	1052.1	1025.2	1021.7
45°	11396.7	9743.9	5981.7	2357.2	1209.9	964.9	946.0	1004.5	1059.0	1052.7	1049.8
47.5°	12092.0	10313.0	5934.1	1916.1	1072.8	956.3	959.8	987.3	1056.1	1067.6	1063.0
50°	12942.2	10836.8	5652.4	1492.1	1006.2	970.1	990.7	976.4	1034.9	1058.4	1062.5
52.5°	13788.3	11240.1	5275.5	1293.1	979.8	983.3	1033.8	985.0	1010.8	1031.5	1050.4
55°	14441.2	11650.8	4665.7	1173.2	971.2	989.6	1045.8	1003.4	1002.8	1002.8	1009.1
57.5°	15109.5	12201.0	4055.9	1095.7	956.3	996.5	1031.5	1006.8	998.8	987.3	979.8
60°	15574.8	12404.6	3272.3	1044.7	940.8	986.7	991.3	987.9	963.2	952.3	943.7
62.5°	15987.8	12515.4	2547.7	986.2	919.6	963.8	939.7	932.2	917.9	891.5	896.1
65°	15877.1	12277.9	1941.3	920.2	904.7	936.2	894.4	876.6	877.7	850.2	859.4
67.5°	15164.6	11212.5	1394.0	819.2	864.0	881.7	842.7	829.5	810.0	796.3	808.9
70°	13725.2	9939.5	940.3	679.8	771.0	809.5	783.6	760.7	730.3	721.1	734.9
72.5°	11552.1	8297.1	648.8	546.7	665.5	715.4	705.6	682.1	660.3	682.7	709.6
75°	9490.4	6138.4	529.5	448.0	511.7	596.1	624.7	631.6	697.0	915.0	937.4
77.5°	6831.4	3805.2	476.2	364.3	408.5	476.7	534.1	557.6	851.3	815.2	813.5
80°	3983.0	2217.8	363.1	287.4	330.4	349.4	417.6	654.6	734.3	629.9	614.4
82.5°	1817.4	978.7	253.0	230.0	229.5	231.2	284.5	629.9	563.4	496.2	477.9
85°	668.3	344.2	153.7	133.1	152.6	132.5	186.4	461.8	326.4	321.3	267.9
87.5°	164.6	70.6	52.2	43.6	35.6	33.8	56.8	152.0	79.7	72.9	70.0
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)