

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: P510761

Luminaire Tested: **CST-CA8-330-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-722-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39362 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

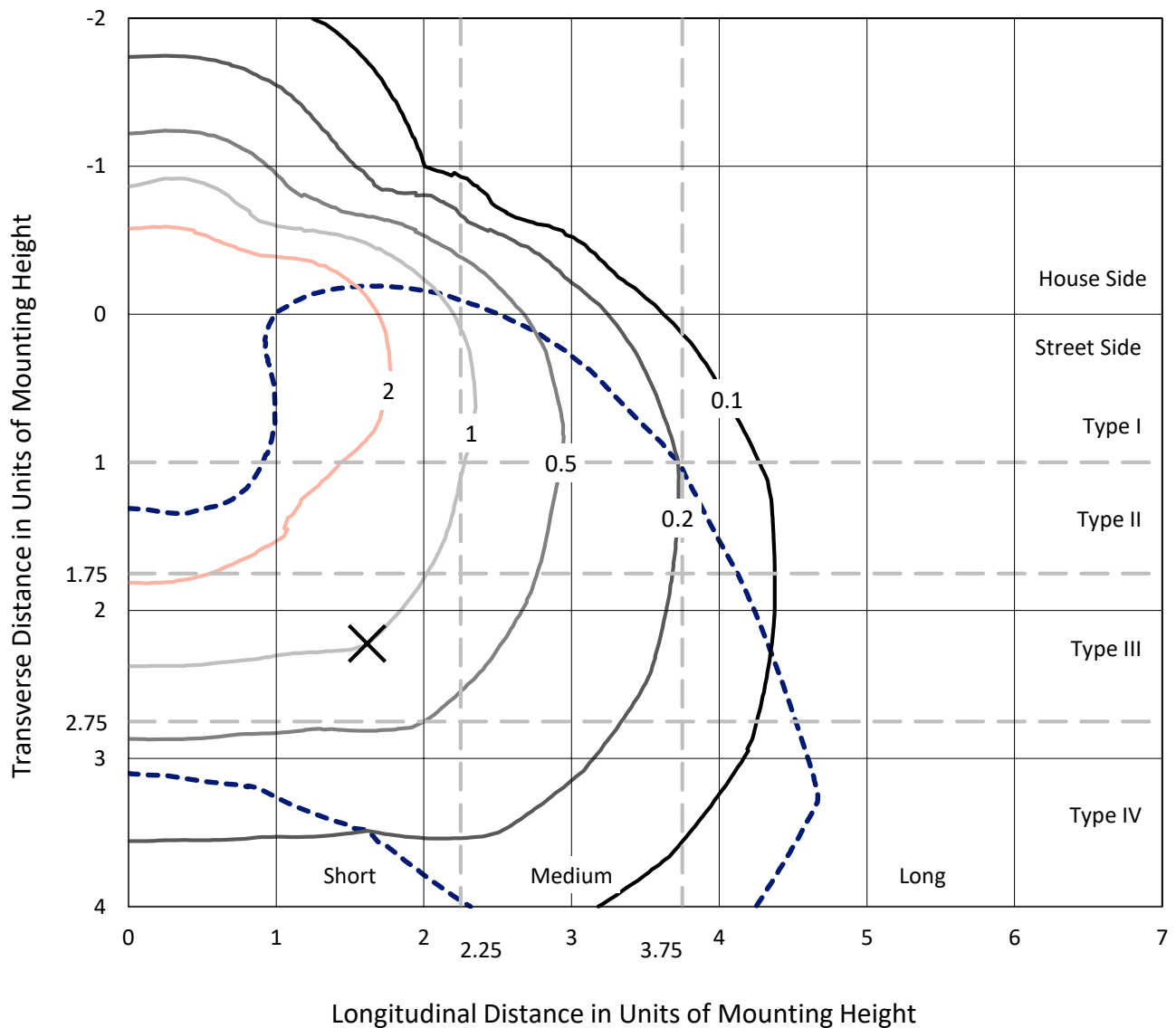
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

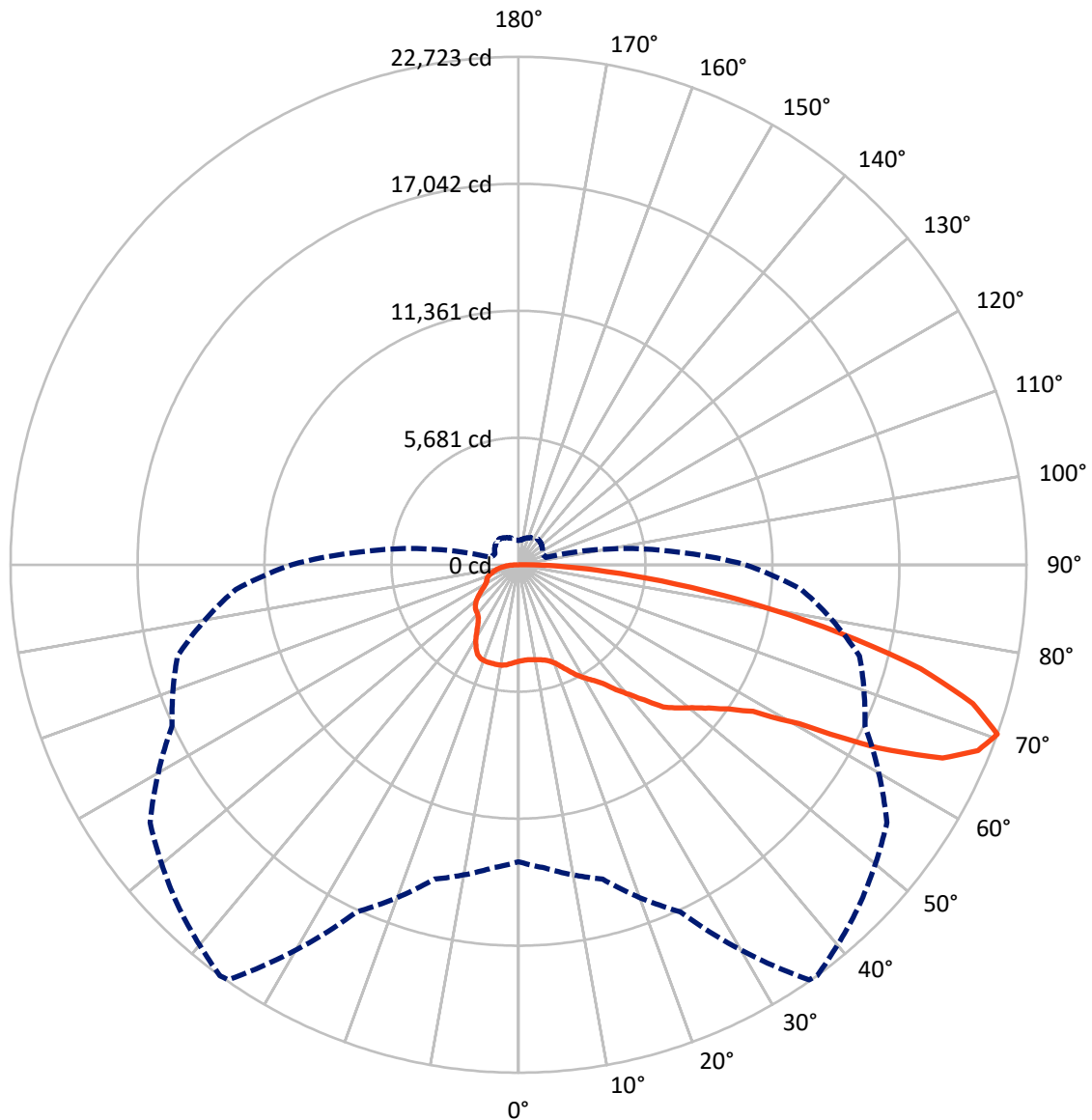
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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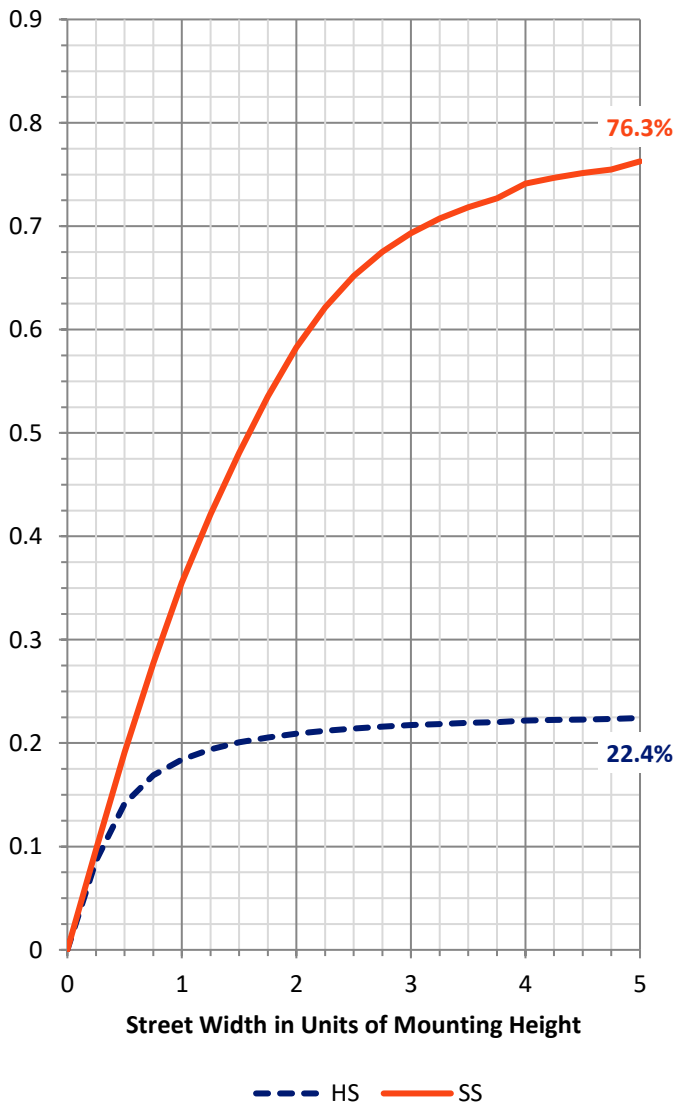
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8968.4	0.0	8968.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	30393.6	0.0	30393.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	39362.0	0.0	39362.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.7	1.1
10°-20°	1291.3	3.3
20°-30°	2329.2	5.9
30°-40°	3607.5	9.2
40°-50°	5479.8	13.9
50°-60°	7595.3	19.3
60°-70°	9876.5	25.1
70°-80°	7293.7	18.5
80°-90°	1471.0	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°	39362.0	100.0
0°-180°	39362.0	100.0

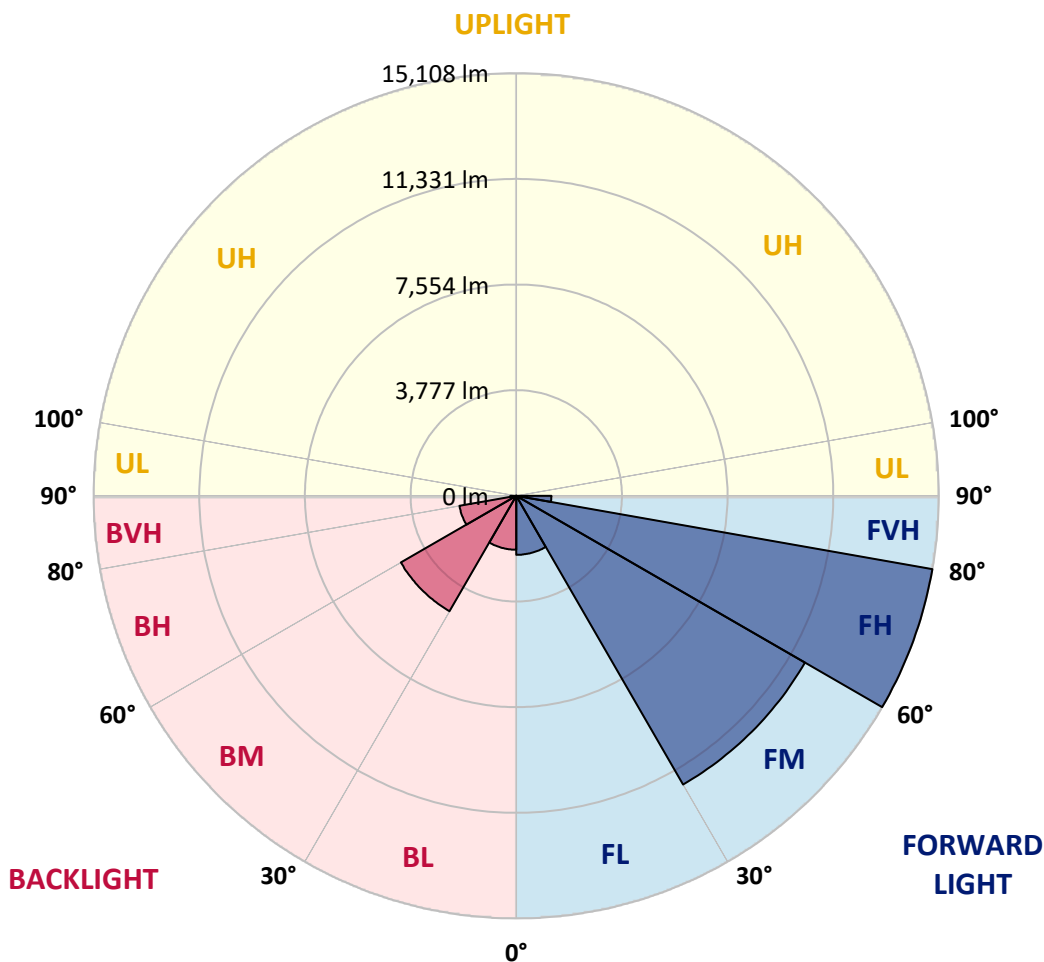


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.2	5.4			
FM (30°-60°)	11918.7	30.3			
FH (60°-80°)	15108.0	38.4			G5
FVH (80°-90°)	1256.7	3.2			G5
BL (0°-30°)	1928.0	4.9	B3/2500		
BM (30°-60°)	4763.9	12.1	B3/5000		
BH (60°-80°)	2062.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	214.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3
2.5°	4285.2	4279.5	4276.3	4282.8	4285.2	4286.0	4287.7	4286.0	4282.0	4296.6	4314.6
5°	4286.0	4282.8	4276.3	4270.6	4270.6	4270.6	4271.4	4290.1	4298.3	4296.6	4318.6
7.5°	4292.6	4290.1	4277.9	4273.8	4283.6	4286.9	4303.2	4297.5	4306.4	4321.1	4339.8
10°	4293.4	4290.1	4279.5	4288.5	4316.2	4321.1	4328.4	4344.7	4348.0	4365.9	4384.7
12.5°	4301.5	4301.5	4305.6	4325.2	4354.5	4360.2	4387.9	4401.0	4420.5	4429.5	4452.3
15°	4344.7	4343.9	4353.7	4375.7	4423.0	4426.2	4460.5	4499.6	4514.2	4536.3	4572.9
17.5°	4447.4	4452.3	4453.1	4469.4	4525.7	4527.3	4583.5	4620.2	4653.6	4692.7	4776.7
20°	4691.1	4682.1	4672.4	4672.4	4694.4	4705.8	4749.0	4807.6	4876.1	4945.4	5044.0
22.5°	4997.5	5015.5	4979.6	4960.9	4971.5	4958.4	4991.0	5038.3	5118.2	5221.7	5346.4
25°	5363.5	5365.1	5362.7	5286.9	5263.2	5271.4	5298.3	5342.3	5448.2	5530.5	5711.5
27.5°	5720.4	5713.1	5687.0	5607.2	5584.3	5595.7	5594.9	5716.4	5824.8	5929.9	6142.6
30°	6044.8	6064.4	6017.9	5883.4	5885.9	5884.2	5921.7	6078.2	6276.3	6471.9	6690.3
32.5°	6616.9	6557.4	6494.7	6229.0	6180.1	6174.4	6196.4	6429.5	6722.9	7052.9	7315.4
35°	7155.6	7141.0	7079.0	6809.3	6526.5	6521.6	6491.4	6775.0	7187.4	7798.7	8126.3
37.5°	7706.6	7685.4	7624.3	7394.4	7113.3	7086.4	6832.9	7143.4	7700.9	8670.7	9137.7
40°	8363.5	8350.4	8255.9	7961.7	7673.2	7632.4	7369.2	7530.5	8348.8	9832.1	10161.3
42.5°	8939.7	8937.2	8828.8	8555.8	8310.5	8269.7	8045.6	8213.5	9249.4	10969.8	11163.8
45°	9362.6	9427.0	9431.9	9276.2	9106.7	9070.9	9011.4	9242.8	10290.9	12002.4	11973.9
47.5°	9719.6	9775.0	9717.2	9637.3	9579.4	9581.9	9674.0	10133.6	11319.4	12902.2	12680.5
50°	10316.2	10282.0	9981.2	9933.9	10007.3	10050.5	10317.8	11095.3	12497.1	13746.5	13314.5
52.5°	11176.8	11045.6	10455.5	10359.4	10637.3	10653.6	11079.0	11955.1	13674.0	14471.0	13894.8
55°	12354.5	12246.1	11579.4	11135.2	11275.4	11385.5	11984.5	12836.1	14634.8	15152.3	14341.4
57.5°	14095.3	14103.5	13559.9	12731.8	12255.0	12372.4	12840.2	13692.7	15428.6	15722.8	14620.2
60°	15490.6	15748.9	15586.7	15208.6	14524.0	14444.1	14088.0	14585.1	16106.7	16207.8	14886.7
62.5°	16458.0	16575.3	17132.8	17212.7	17995.0	18028.5	16322.7	15630.7	16851.6	16525.6	14942.9
65°	16409.1	16481.6	17362.6	18435.1	20746.5	20850.0	19851.6	17212.7	17361.8	16667.4	14779.1
67.5°	15266.4	15375.7	16495.5	18500.3	22212.6	22173.5	21540.3	19414.8	17529.7	16440.0	13998.3
70°	13281.9	13618.5	14559.0	17125.4	22670.7	22722.8	21555.7	20118.1	17096.9	15797.0	12696.8
72.5°	10947.0	11052.9	11941.3	14813.3	21331.6	21255.0	20672.3	19189.8	16314.5	14634.0	10418.9
75°	8325.2	8325.2	9400.9	11805.2	18318.6	18587.5	18814.1	17380.5	14453.1	11927.4	7094.5
77.5°	5526.5	5724.5	6590.8	8871.2	14500.4	14699.2	15481.6	14814.9	11833.7	8746.5	3240.4
80°	2931.5	2956.0	3885.1	5894.8	10371.6	10746.5	11822.3	11426.2	8511.8	4097.8	819.1
82.5°	1025.3	1119.0	1708.2	3416.5	6833.7	7067.6	7842.7	6789.7	3006.5	907.1	453.1
85°	509.4	527.3	752.2	1626.7	3847.6	3960.9	4581.9	2644.7	484.1	396.1	308.1
87.5°	245.3	251.0	288.5	581.9	1672.4	1749.8	1852.5	860.6	179.3	150.8	133.7
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°	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3	4311.3
2.5°	4318.6	4326.0	4339.8	4343.9	4334.1	4352.1	4369.2	4384.7	4383.8	4389.6	4409.9
5°	4328.4	4343.9	4358.6	4384.7	4409.9	4424.6	4438.5	4451.5	4455.6	4467.8	4480.0
7.5°	4358.6	4374.1	4407.5	4453.1	4454.8	4491.4	4515.1	4519.1	4522.4	4522.4	4550.9
10°	4405.0	4433.6	4487.4	4519.1	4547.7	4535.4	4559.9	4544.4	4533.0	4537.9	4557.4
12.5°	4484.9	4510.2	4587.6	4622.6	4596.6	4591.7	4567.2	4532.2	4492.2	4488.2	4506.1
15°	4610.4	4657.7	4727.0	4760.4	4695.2	4637.3	4555.0	4483.3	4405.9	4377.3	4388.7
17.5°	4812.5	4869.6	4945.4	4922.6	4803.6	4689.5	4553.4	4401.8	4251.8	4147.5	4174.4
20°	5108.4	5150.8	5212.7	5120.6	4947.0	4758.7	4535.4	4295.8	4042.4	3852.5	3830.5
22.5°	5418.9	5483.3	5445.8	5275.4	5048.1	4785.6	4497.9	4141.8	3749.8	3511.8	3475.9
25°	5793.0	5814.2	5684.6	5427.9	5076.6	4743.3	4376.5	3916.9	3450.7	3226.6	3216.0
27.5°	6189.9	6141.8	5900.5	5497.9	5044.8	4617.7	4132.8	3561.5	3180.1	2982.1	2951.1
30°	6638.1	6526.5	6079.0	5505.3	4925.0	4373.3	3824.8	3283.6	2960.1	2761.2	2729.4
32.5°	7215.1	6951.9	6244.5	5429.5	4672.4	4014.7	3454.8	3046.4	2762.0	2562.3	2533.8
35°	7952.7	7508.5	6419.7	5292.6	4361.0	3656.1	3148.3	2845.1	2601.5	2361.0	2322.7
37.5°	8802.7	8285.2	6629.2	5119.8	4019.5	3340.7	2941.3	2717.2	2482.5	2210.3	2164.6
40°	9790.5	9062.7	6951.9	4913.6	3713.1	3113.3	2841.1	2673.2	2416.5	2132.8	2080.7
42.5°	10646.3	9885.0	7335.8	4691.9	3423.8	2924.2	2796.2	2643.8	2374.9	2075.0	2015.5
45°	11437.6	10563.9	7710.6	4423.0	3119.0	2794.6	2742.5	2570.5	2301.5	2003.3	1941.3
47.5°	12080.6	11112.4	8036.6	4176.0	2875.3	2675.6	2625.1	2431.1	2178.5	1916.9	1871.2
50°	12574.5	11524.8	8215.1	3979.6	2617.8	2540.3	2473.5	2273.8	2031.0	1805.2	1766.1
52.5°	13079.8	11938.0	8303.1	3989.4	2378.1	2339.0	2270.6	2099.4	1913.6	1740.0	1697.6
55°	13374.0	12107.5	8210.2	3752.2	2158.1	2112.5	2053.0	1964.1	1853.3	1699.3	1659.3
57.5°	13546.0	12212.7	7927.4	3060.3	1893.2	1850.0	1859.8	1852.5	1761.2	1599.0	1562.3
60°	13669.9	11984.5	7348.0	2249.4	1667.5	1634.9	1715.6	1689.5	1610.4	1484.1	1453.1
62.5°	13569.6	11550.1	6304.8	1691.1	1483.3	1552.6	1623.5	1575.4	1467.8	1352.9	1317.0
65°	12958.4	10697.6	4792.2	1358.6	1423.8	1519.1	1576.2	1498.8	1389.6	1253.5	1237.2
67.5°	11845.9	9152.4	2826.4	1245.3	1379.0	1480.0	1527.3	1424.6	1328.4	1198.0	1178.5
70°	10148.3	6851.6	1262.4	1159.7	1300.7	1401.0	1431.9	1335.0	1230.6	1108.4	1088.8
72.5°	7553.4	4131.2	850.9	1070.9	1185.0	1273.8	1308.1	1205.4	1131.2	1075.8	1070.1
75°	4194.8	1434.4	784.8	969.8	1058.7	1138.5	1180.9	1108.4	1049.7	973.9	942.9
77.5°	1335.8	609.6	745.7	867.2	979.6	1045.6	1039.1	929.9	911.2	819.1	810.9
80°	533.0	531.4	689.5	709.9	836.2	891.6	876.9	739.2	763.6	709.9	688.7
82.5°	418.1	486.6	552.6	542.0	650.4	715.6	695.2	542.8	613.7	564.0	515.9
85°	317.8	426.2	354.5	352.9	454.0	531.4	544.4	417.3	418.1	380.6	339.0
87.5°	163.8	157.3	136.1	135.3	151.6	216.0	264.9	237.2	187.4	141.0	135.3
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)