

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: P510806

Luminaire Tested: **CST-CA8-330-760-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-760-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44405 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

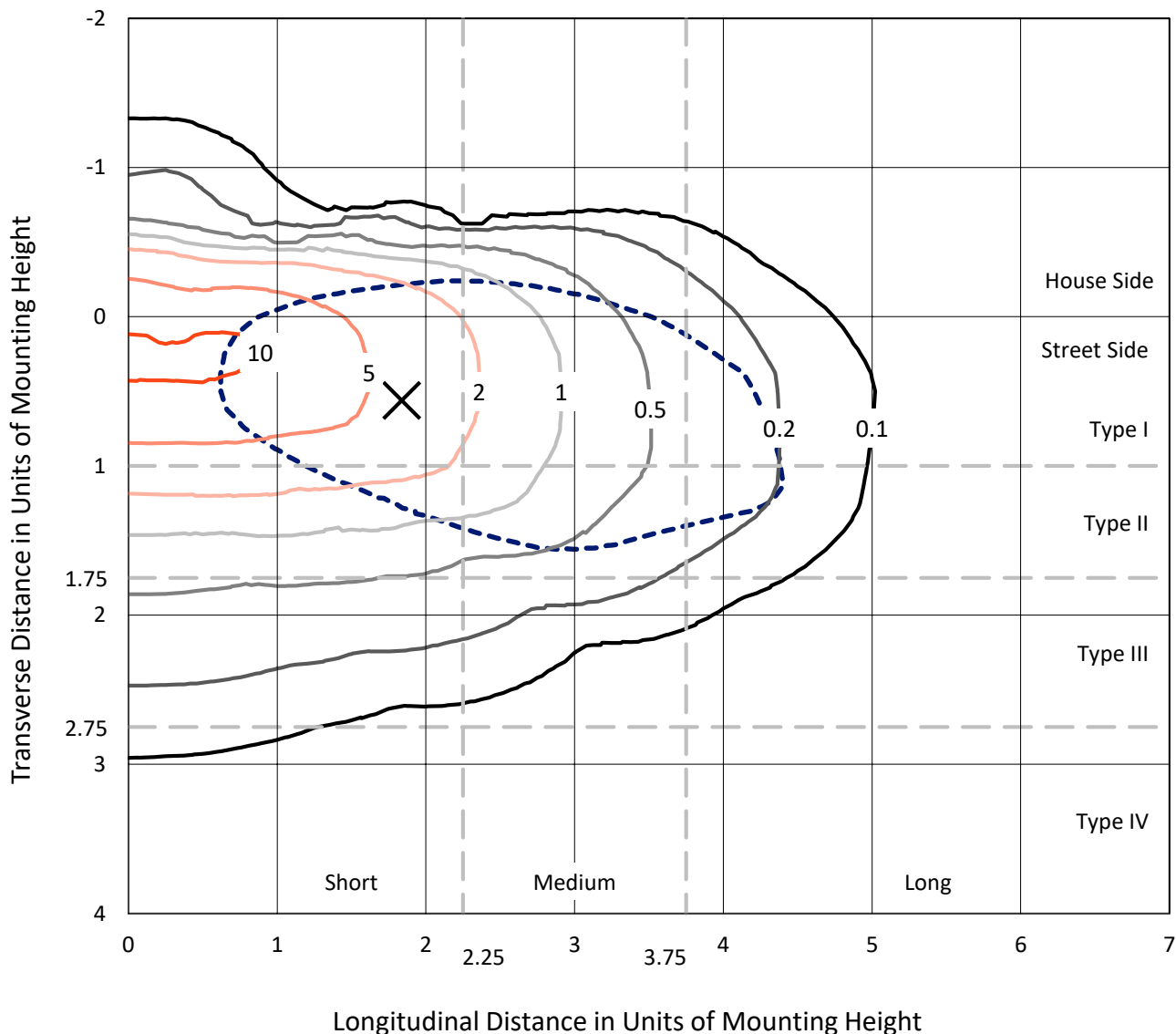
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

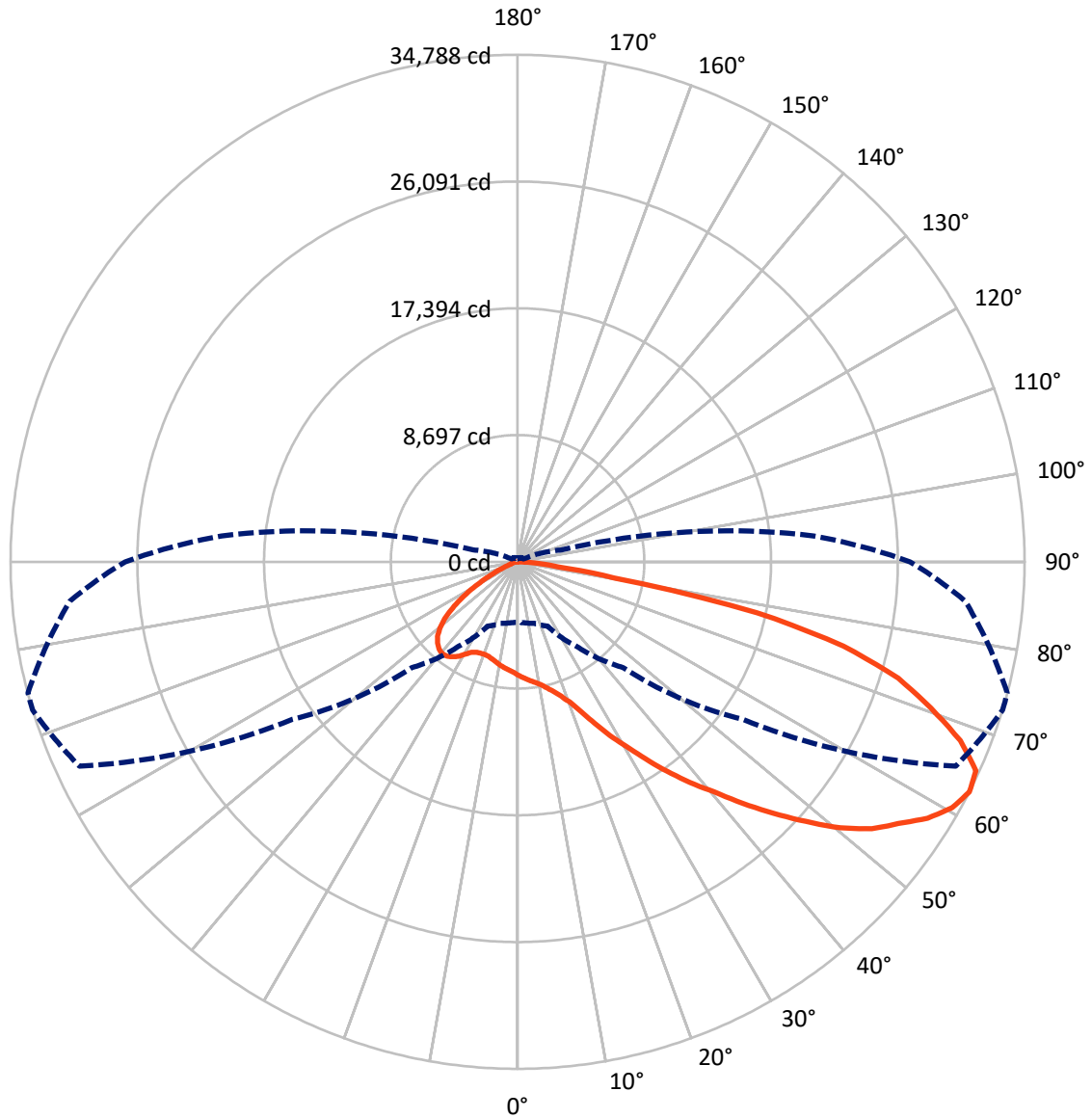
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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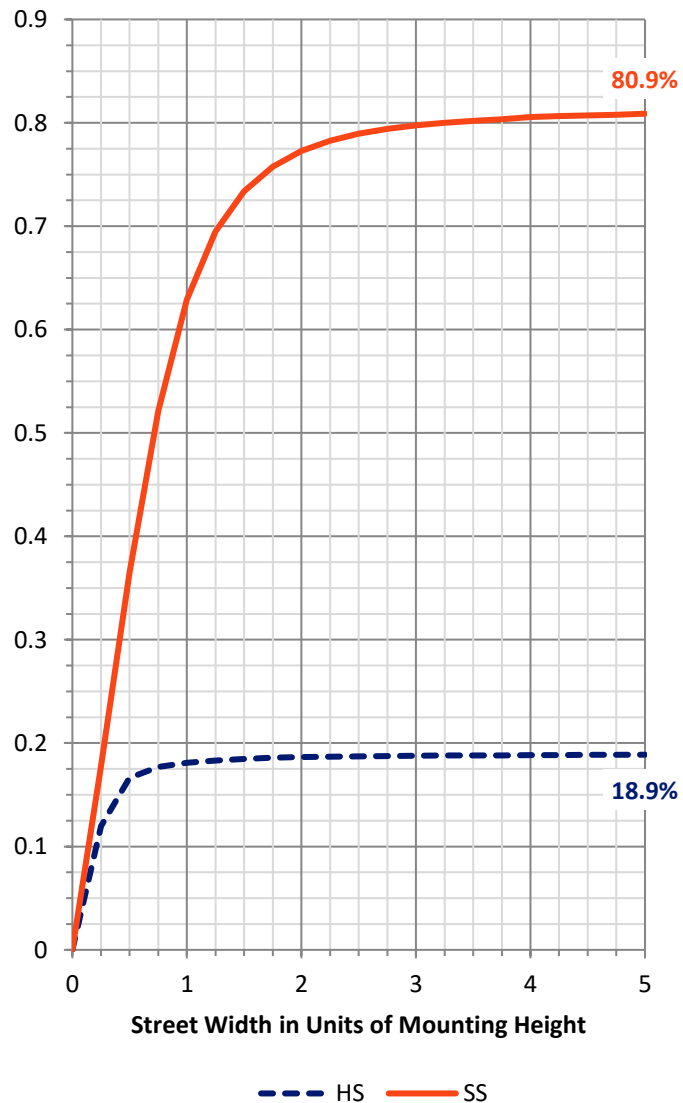
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8494.5	0.0	8494.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35910.5	0.0	35910.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	44405.0	0.0	44405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.8	1.7
10°-20°	2237.2	5.0
20°-30°	3865.5	8.7
30°-40°	5812.7	13.1
40°-50°	7750.7	17.5
50°-60°	9128.0	20.6
60°-70°	9074.9	20.4
70°-80°	5210.1	11.7
80°-90°	582.0	1.3
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°	44405.0	100.0
0°-180°	44405.0	100.0

Coefficient of Utilization

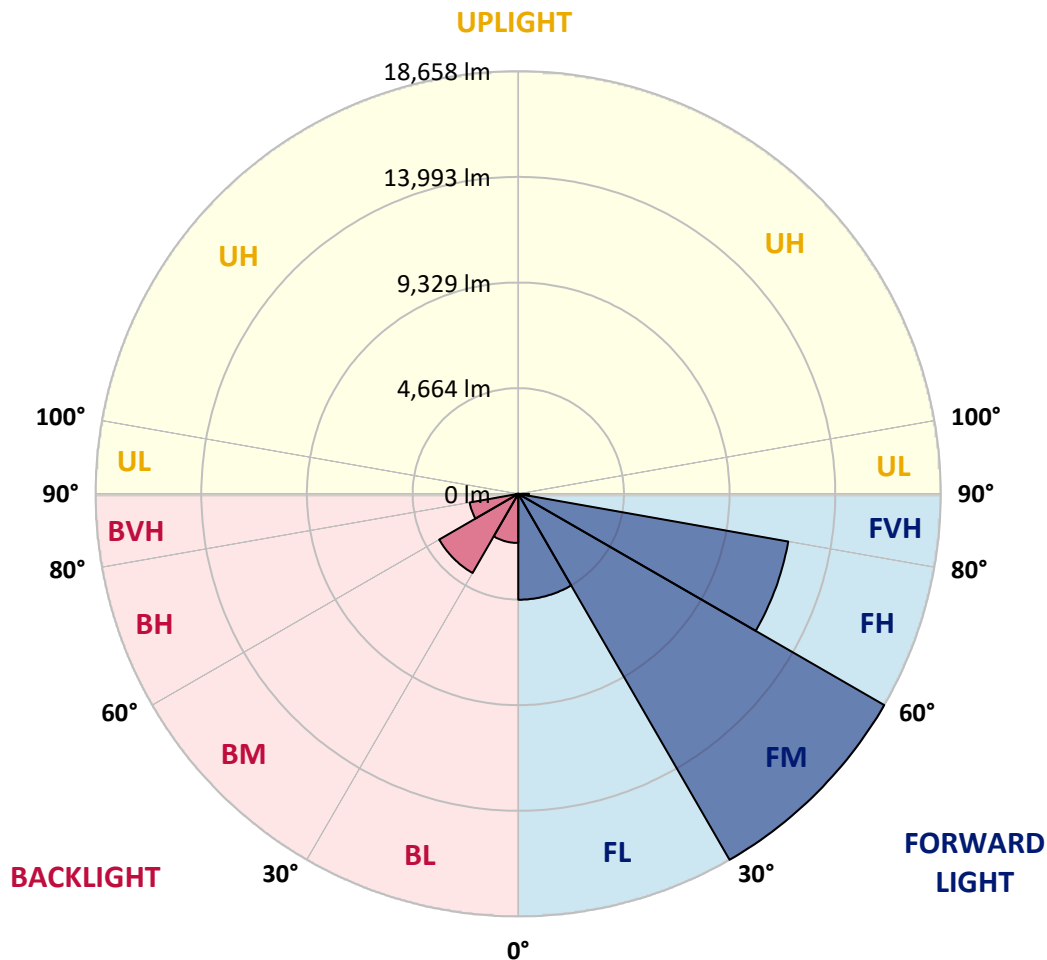


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4675.8	10.5			
FM (30°-60°)	18657.9	42.0			
FH (60°-80°)	12104.1	27.3			G5
FVH (80°-90°)	472.7	1.1			G3/500
BL (0°-30°)	2170.7	4.9	B3/2500		
BM (30°-60°)	4033.6	9.1	B3/5000		
BH (60°-80°)	2180.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	109.3	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6
2.5°	8331.9	8352.8	8327.9	8316.9	8304.9	8227.2	8136.5	8043.8	7969.0	7957.1	7859.4
5°	8916.9	8927.9	8887.0	8840.2	8759.5	8630.9	8468.4	8307.9	8158.4	8118.5	7940.1
7.5°	9366.5	9345.5	9335.6	9295.7	9224.9	9083.4	8837.2	8574.1	8342.8	8287.0	8015.9
10°	9788.1	9779.1	9703.4	9653.5	9540.9	9410.3	9208.0	8874.1	8548.1	8458.4	8081.7
12.5°	10244.6	10224.7	10193.8	10086.1	9994.4	9774.2	9529.9	9225.9	8863.1	8743.5	8194.3
15°	10655.3	10601.5	10584.5	10471.9	10379.2	10210.7	9965.5	9612.7	9224.9	9122.3	8408.6
17.5°	11046.0	11021.1	10983.2	10906.5	10802.8	10673.2	10476.9	10099.1	9698.4	9548.9	8772.4
20°	11377.9	11347.0	11314.1	11335.1	11312.1	11229.4	11105.8	10783.9	10294.5	10149.9	9215.0
22.5°	11609.2	11608.2	11739.7	11816.5	11860.4	11857.4	11827.5	11645.1	11152.7	11006.1	9876.8
25°	11801.5	11816.5	11983.0	12275.0	12536.2	12560.1	12771.4	12684.7	12266.0	12113.5	10872.6
27.5°	11858.4	11888.3	12190.3	12649.8	13046.5	13427.3	13737.2	13895.7	13508.0	13325.6	11943.1
30°	11899.2	11911.2	12207.2	12757.4	13593.7	14196.7	14750.9	15019.1	14685.2	14551.6	13136.2
32.5°	11611.2	11615.2	12068.7	12902.0	13995.4	15041.0	15696.9	16202.2	16114.5	15938.1	14440.9
35°	11214.5	11288.2	11808.5	12762.4	14326.3	15816.5	16709.6	17463.1	17638.5	17511.9	15744.7
37.5°	10724.1	10781.9	11339.1	12555.1	14399.1	16349.7	17497.0	18744.9	19203.4	19182.5	17318.6
40°	10121.0	10191.8	10858.6	12108.5	14363.2	16737.5	18421.0	20164.3	20746.4	20680.6	18879.5
42.5°	9408.3	9512.0	10158.9	11534.4	14101.1	16974.7	19177.5	21609.6	22657.2	22614.3	20261.0
45°	8703.6	8759.5	9349.5	10735.0	13618.6	17051.4	19889.2	23601.1	24616.8	24568.9	21925.6
47.5°	7977.0	8025.8	8641.8	9892.8	12781.4	16896.9	20452.4	25311.5	26613.3	26565.4	23579.2
50°	6286.5	6470.9	7733.8	9152.2	11827.5	16459.4	20983.6	27442.6	28702.5	28499.1	25027.5
52.5°	5378.5	5445.3	6100.1	8405.6	10875.6	15712.8	21338.5	29417.2	30420.9	30127.8	26508.6
55°	5027.6	5072.5	5393.4	7029.1	9981.5	14583.5	21756.1	31396.7	31709.7	31634.9	27716.7
57.5°	4761.5	4811.3	5040.6	5870.9	9039.5	13000.6	21625.5	32789.2	33180.9	32941.7	28999.5
60°	4384.7	4445.5	4749.5	5270.8	7969.0	11393.9	20476.3	33359.3	34250.4	33981.3	29975.3
62.5°	4147.5	4187.4	4361.8	4867.1	7081.9	10263.6	18840.6	33175.9	34787.7	34777.7	30821.6
65°	3825.5	3884.3	4070.7	4480.4	6292.5	9387.4	17297.6	32269.9	34556.4	34565.4	30996.0
67.5°	3488.6	3512.6	3707.9	4036.8	5362.5	8585.0	15301.1	30719.9	32755.3	32960.6	29788.9
70°	3068.0	3056.0	3267.4	3507.6	4382.7	7289.2	12315.9	27962.9	30093.9	30178.7	27347.9
72.5°	2414.1	2425.1	2483.9	2650.4	3327.2	5736.3	8936.9	23625.0	27312.0	27462.5	24228.1
75°	1622.7	1640.7	1914.8	2077.2	2393.2	4122.6	5619.7	15947.0	23088.8	23513.4	19829.4
77.5°	1238.0	1248.9	1328.7	1506.1	1731.4	2938.4	3046.1	8689.7	16809.2	17816.9	15512.5
80°	877.1	881.1	802.4	713.7	922.0	1993.5	1799.1	3700.9	6698.2	7915.2	9111.3
82.5°	392.7	386.7	455.5	378.8	531.3	771.5	849.2	1796.1	2781.9	2990.3	3255.4
85°	182.4	204.3	234.2	196.4	316.0	298.0	330.9	765.5	1303.8	1439.3	1431.3
87.5°	44.9	48.8	61.8	78.7	114.6	101.7	99.7	225.3	291.1	290.1	445.5
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°	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6	7787.6
2.5°	7792.6	7740.8	7618.2	7499.6	7386.9	7312.2	7228.4	7140.7	7087.9	7063.0	7116.8
5°	7831.5	7732.8	7498.6	7263.3	7064.0	6893.5	6773.9	6672.3	6617.4	6622.4	6625.4
7.5°	7864.4	7725.8	7397.9	7066.0	6755.0	6543.7	6387.2	6277.5	6214.8	6166.9	6202.8
10°	7893.3	7696.9	7280.3	6837.7	6499.8	6186.8	5974.5	5842.0	5726.3	5661.6	5712.4
12.5°	7924.2	7686.0	7148.7	6633.4	6195.8	5846.0	5554.9	5423.3	5309.7	5260.9	5291.8
15°	8058.7	7727.8	7026.1	6393.2	5895.8	5443.3	5129.3	4967.8	4878.1	4819.3	4832.3
17.5°	8290.0	7838.5	6947.4	6142.0	5560.9	5082.4	4675.8	4487.4	4338.9	4297.0	4286.0
20°	8618.9	8048.8	6947.4	5929.7	5181.1	4681.7	4213.3	3895.3	3664.1	3577.3	3644.1
22.5°	9171.1	8406.6	7016.1	5737.3	4854.2	4266.1	3707.9	3222.5	2910.5	2783.9	2857.7
25°	9943.6	8959.8	7127.8	5568.9	4556.2	3787.7	3067.0	2508.8	2164.9	2014.4	2012.4
27.5°	10952.3	9806.0	7353.0	5431.3	4199.3	3168.7	2398.2	1860.9	1538.0	1447.3	1460.2
30°	12070.7	10723.1	7778.7	5232.0	3765.7	2475.9	1746.3	1367.5	1140.3	1020.7	1022.7
32.5°	13149.2	11673.0	8284.0	5102.4	3202.6	1866.9	1244.9	975.8	834.3	763.5	774.5
35°	14305.4	12492.3	8659.8	4885.1	2541.7	1349.6	880.1	731.6	672.8	635.9	637.9
37.5°	15554.3	13393.4	8968.8	4594.0	1921.7	927.0	649.9	627.0	602.0	555.2	551.2
40°	16859.1	14437.0	9153.2	4123.6	1335.6	641.9	552.2	578.1	564.2	503.4	498.4
42.5°	17965.5	15242.3	9199.0	3500.6	864.2	520.3	500.4	540.2	543.2	481.4	473.5
45°	19028.0	15960.0	9109.3	2680.3	599.0	489.4	468.5	523.3	527.3	471.5	458.5
47.5°	20217.1	16941.8	8946.8	1788.2	495.4	462.5	457.5	495.4	509.3	463.5	447.5
50°	21661.4	17740.2	8465.4	1098.4	467.5	445.5	445.5	468.5	487.4	447.5	439.6
52.5°	23142.6	18435.9	7752.7	753.5	450.5	427.6	440.6	450.5	457.5	421.6	428.6
55°	24204.1	19052.9	6690.2	606.0	440.6	415.6	446.5	426.6	416.6	385.7	378.8
57.5°	25382.3	19786.5	5603.7	537.2	427.6	422.6	426.6	388.7	360.8	328.9	322.0
60°	26204.6	20181.2	4274.1	505.4	412.7	415.6	393.7	342.9	292.0	269.1	264.1
62.5°	26922.3	20406.5	3132.8	464.5	398.7	397.7	356.8	293.0	240.2	215.3	211.3
65°	26813.6	20054.7	2030.4	431.6	387.7	374.8	320.0	251.2	200.3	181.4	179.4
67.5°	25618.5	18497.7	1278.8	397.7	368.8	345.9	287.1	224.3	184.4	162.5	160.5
70°	23109.7	16347.7	782.5	353.8	327.9	306.0	254.2	210.3	174.4	148.5	143.5
72.5°	19642.0	14001.4	553.2	312.0	286.1	260.2	215.3	200.3	166.5	133.6	129.6
75°	16137.4	10313.4	463.5	272.1	244.2	209.3	183.4	186.4	156.5	121.6	118.6
77.5°	11364.0	6430.0	431.6	222.3	192.4	166.5	158.5	170.4	143.5	111.6	108.6
80°	6632.4	3611.2	356.8	175.4	144.5	128.6	132.6	144.5	125.6	100.7	96.7
82.5°	2677.3	1429.3	251.2	136.6	105.7	102.7	108.6	117.6	103.7	84.7	82.7
85°	955.9	446.5	142.5	89.7	67.8	70.8	69.8	83.7	74.8	61.8	60.8
87.5°	251.2	88.7	63.8	35.9	28.9	28.9	26.9	38.9	35.9	27.9	30.9
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)