

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: McGRAW-EDISON

Report Number: P510576

Luminaire Tested: **CTN-CA10-760-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510576
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: MCGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T2-HSS
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: 79020 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

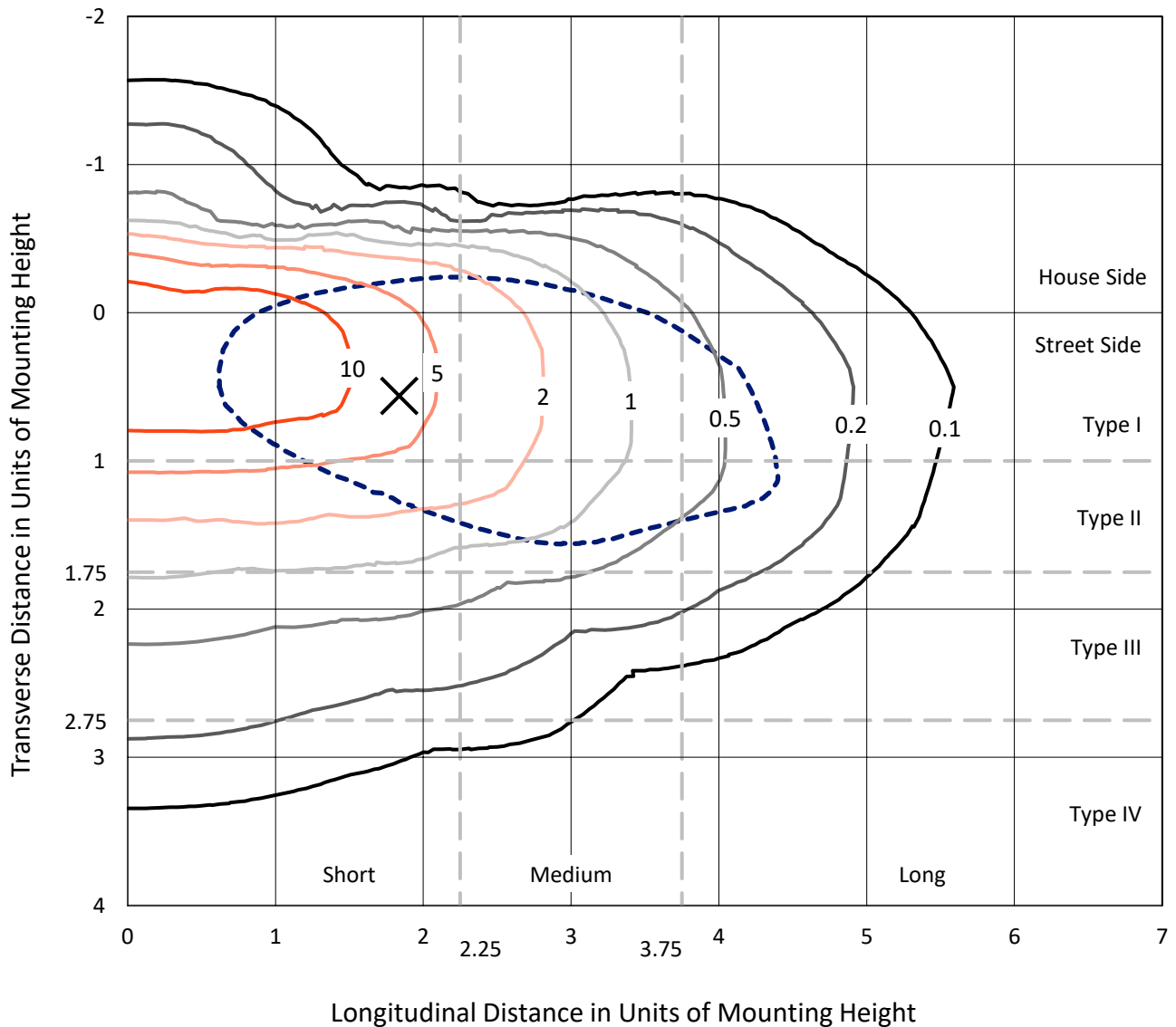
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

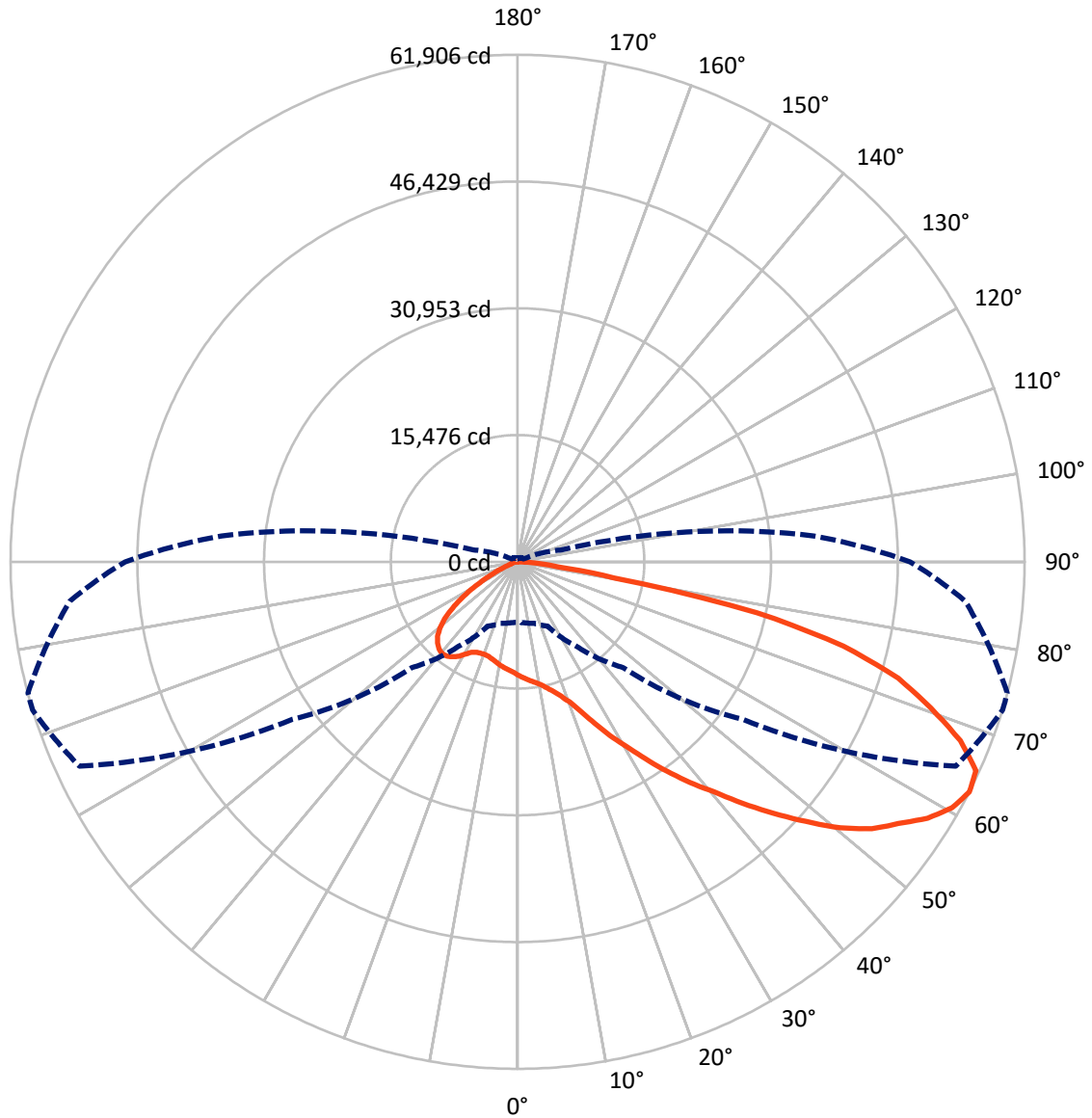
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.2 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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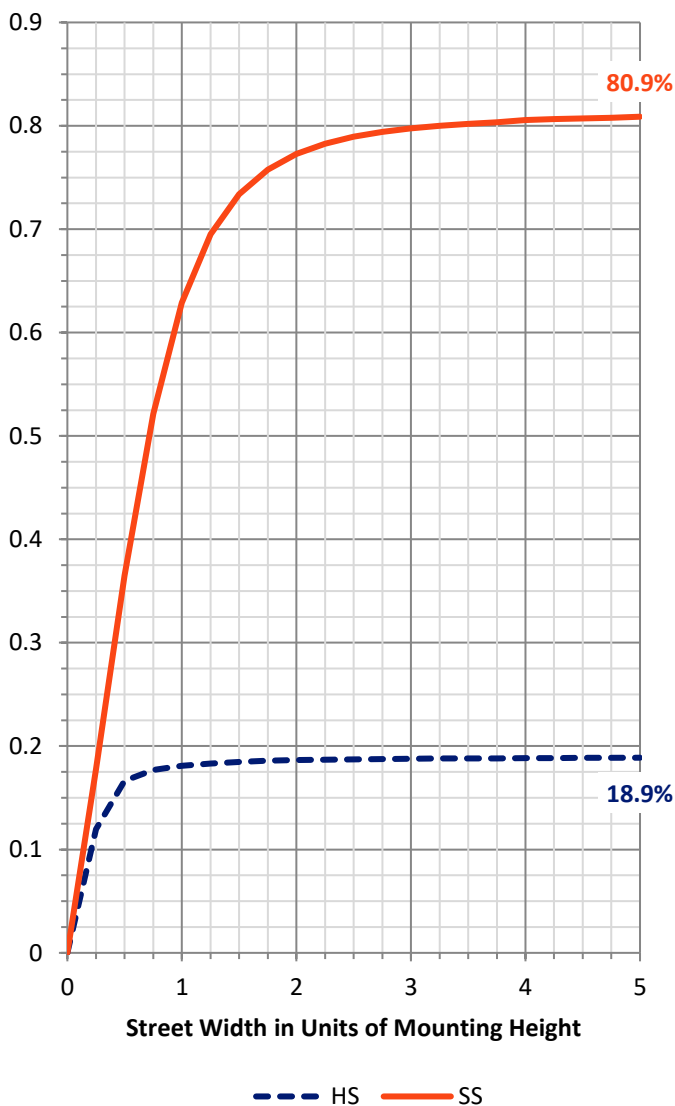
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15116.1	0.0	15116.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	63903.8	0.0	63903.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	79020.0	0.0	79020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1323.6	1.7
10°-20°	3981.2	5.0
20°-30°	6878.7	8.7
30°-40°	10343.9	13.1
40°-50°	13792.6	17.5
50°-60°	16243.6	20.6
60°-70°	16149.0	20.4
70°-80°	9271.5	11.7
80°-90°	1035.7	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°	79020.0	100.0
0°-180°	79020.0	100.0

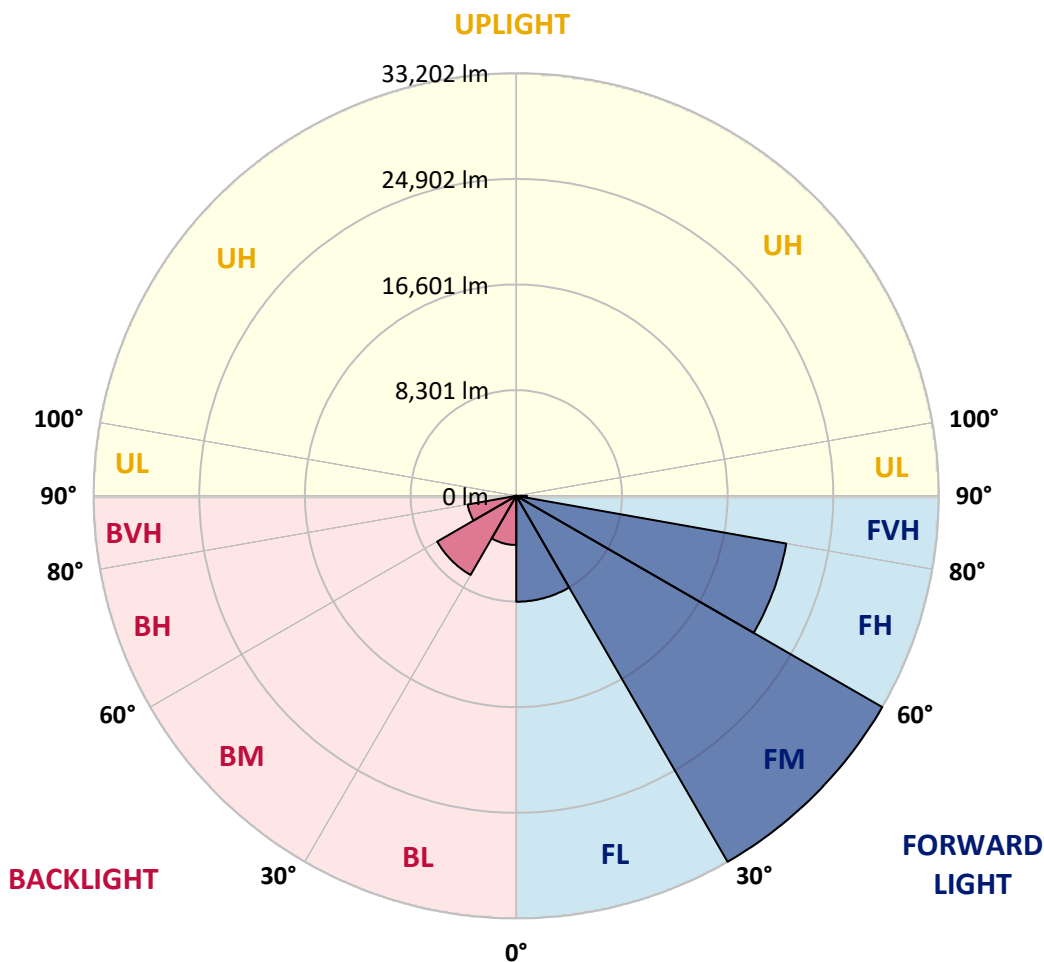


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8320.7	10.5			
FM (30°-60°)	33202.3	42.0			
FH (60°-80°)	21539.6	27.3			G5
FVH (80°-90°)	841.2	1.1			G5
BL (0°-30°)	3862.9	4.9	B4/5000		
BM (30°-60°)	7177.9	9.1	B4/8500		
BH (60°-80°)	3880.9	4.9	B4/5000		G4/5000
BVH (80°-90°)	194.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3
2.5°	14826.8	14864.0	14819.7	14800.2	14778.9	14640.5	14479.1	14314.2	14181.1	14159.8	13986.0
5°	15868.0	15887.5	15814.8	15731.4	15587.7	15358.9	15069.8	14784.2	14518.1	14447.2	14129.7
7.5°	16667.9	16630.7	16612.9	16542.0	16416.1	16164.2	15726.1	15257.8	14846.3	14747.0	14264.5
10°	17418.2	17402.3	17267.5	17178.8	16978.3	16746.0	16385.9	15791.7	15211.7	15052.0	14381.6
12.5°	18230.6	18195.1	18140.1	17948.6	17785.4	17393.4	16958.8	16417.8	15772.2	15559.3	14582.0
15°	18961.4	18865.6	18835.5	18635.0	18470.1	18170.3	17734.0	17106.0	16416.1	16233.4	14963.4
17.5°	19656.7	19612.4	19545.0	19408.4	19223.9	18993.3	18643.9	17971.6	17258.6	16992.5	15610.8
20°	20247.4	20192.4	20133.8	20171.1	20130.3	19983.1	19763.1	19190.2	18319.3	18062.1	16398.3
22.5°	20658.9	20657.1	20891.2	21027.8	21105.9	21100.5	21047.3	20722.7	19846.5	19585.7	17576.1
25°	21001.2	21027.8	21324.0	21843.7	22308.5	22351.0	22727.1	22572.7	21827.8	21556.4	19348.1
27.5°	21102.3	21155.5	21693.0	22510.7	23216.6	23894.2	24445.8	24727.8	24037.9	23713.3	21253.1
30°	21175.0	21196.3	21723.1	22702.2	24190.4	25263.5	26249.7	26726.9	26132.7	25895.0	23376.3
32.5°	20662.4	20669.5	21476.6	22959.4	24905.2	26765.9	27933.0	28832.3	28676.2	28362.3	25698.1
35°	19956.5	20087.7	21013.6	22711.1	25494.1	28145.9	29735.1	31076.1	31388.3	31163.0	28018.2
37.5°	19083.8	19186.7	20178.2	22342.2	25623.6	29094.8	31136.4	33357.1	34173.1	34135.8	30818.9
40°	18010.7	18136.6	19323.2	21547.5	25559.7	29784.8	32780.7	35883.0	36918.8	36801.8	33596.6
42.5°	16742.4	16926.9	18078.1	20525.8	25093.2	30207.0	34126.9	38454.9	40319.1	40242.8	36055.0
45°	15488.4	15587.7	16637.8	19103.3	24234.7	30343.5	35393.4	41998.9	43806.3	43721.2	39017.2
47.5°	14195.3	14282.2	15378.4	17604.5	22744.8	30068.6	36395.6	45042.6	47359.1	47274.0	41959.8
50°	11187.0	11515.2	13762.5	16286.6	21047.3	29289.9	37341.0	48834.9	51076.9	50715.1	44537.1
52.5°	9571.2	9690.0	10855.3	14958.0	19353.4	27961.4	37972.4	52348.7	54134.8	53613.4	47172.9
55°	8946.8	9026.6	9597.8	12508.5	17762.3	25951.7	38715.6	55871.4	56428.3	56295.3	49322.7
57.5°	8473.2	8561.9	8969.9	10447.4	16086.1	23135.0	38483.3	58349.3	59046.4	58620.7	51605.5
60°	7802.7	7910.9	8451.9	9379.6	14181.1	20275.7	36438.1	59363.9	60949.6	60470.7	53342.0
62.5°	7380.6	7451.5	7761.9	8661.2	12602.5	18264.3	33527.4	59037.5	61905.6	61887.9	54847.9
65°	6807.7	6912.3	7244.0	7973.0	11197.7	16705.2	30781.7	57425.2	61494.1	61510.1	55158.3
67.5°	6208.1	6250.7	6598.3	7183.7	9542.8	15277.3	27228.8	54667.0	58289.0	58654.4	53010.3
70°	5459.6	5438.3	5814.4	6241.8	7799.2	12971.4	21916.5	49760.8	53553.1	53703.8	48666.4
72.5°	4296.0	4315.5	4420.2	4716.4	5920.8	10207.9	15903.4	42041.4	48602.5	48870.4	43114.5
75°	2887.7	2919.6	3407.4	3696.5	4258.8	7336.2	10000.4	28378.2	41087.1	41842.8	35287.0
77.5°	2203.0	2222.5	2364.4	2680.1	3081.0	5229.0	5420.6	15463.6	29912.5	31705.8	27604.9
80°	1560.9	1568.0	1427.9	1270.0	1640.7	3547.5	3201.6	6585.9	11919.6	14085.3	16213.8
82.5°	698.9	688.2	810.6	674.0	945.4	1372.9	1511.2	3196.3	4950.5	5321.2	5793.1
85°	324.6	363.6	416.8	349.4	562.3	530.4	588.9	1362.2	2320.1	2561.3	2547.1
87.5°	79.8	86.9	110.0	140.1	204.0	180.9	177.4	400.9	517.9	516.2	792.9
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°	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3	13858.3
2.5°	13867.2	13774.9	13556.8	13345.7	13145.3	13012.2	12863.2	12707.1	12613.1	12568.8	12664.6
5°	13936.4	13760.8	13343.9	12925.3	12570.6	12267.3	12054.4	11873.5	11775.9	11784.8	11790.1
7.5°	13994.9	13748.3	13164.8	12574.1	12020.7	11644.7	11366.2	11171.1	11059.3	10974.2	11038.0
10°	14046.3	13696.9	12955.5	12167.9	11566.6	11009.7	10631.9	10395.9	10190.2	10074.9	10165.4
12.5°	14101.3	13677.4	12721.3	11804.3	11025.6	10403.0	9885.1	9651.0	9448.8	9361.9	9416.8
15°	14340.8	13751.9	12503.2	11376.8	10491.7	9686.4	9127.7	8840.4	8680.7	8576.1	8599.1
17.5°	14752.3	13948.8	12363.0	10929.8	9895.8	9044.4	8320.7	7985.4	7721.1	7646.6	7627.1
20°	15337.6	14323.0	12363.0	10552.0	9220.0	8331.3	7497.6	6931.8	6520.3	6366.0	6484.8
22.5°	16320.3	14959.8	12485.4	10209.7	8638.2	7591.6	6598.3	5734.5	5179.3	4954.1	5085.3
25°	17694.9	15944.2	12684.1	9909.9	8107.8	6740.2	5457.8	4464.5	3852.6	3584.7	3581.2
27.5°	19490.0	17450.2	13085.0	9665.2	7472.8	5638.8	4267.6	3311.6	2736.9	2575.5	2598.5
30°	21480.1	19082.0	13842.3	9310.4	6701.2	4406.0	3107.6	2433.6	2029.2	1816.3	1819.9
32.5°	23399.3	20772.4	14741.6	9079.8	5699.1	3322.2	2215.4	1736.5	1484.6	1358.7	1378.2
35°	25456.9	22230.4	15410.3	8693.1	4523.1	2401.7	1566.2	1301.9	1197.3	1131.7	1135.2
37.5°	27679.4	23833.9	15960.2	8175.2	3419.8	1649.6	1156.5	1115.7	1071.3	988.0	980.9
40°	30001.2	25691.0	16288.3	7338.0	2376.8	1142.3	982.7	1028.8	1003.9	895.7	886.9
42.5°	31970.1	27124.2	16369.9	6229.4	1537.8	925.9	890.4	961.4	966.7	856.7	842.5
45°	33860.9	28401.3	16210.3	4769.6	1066.0	870.9	833.7	931.2	938.3	839.0	815.9
47.5°	35977.0	30148.4	15921.2	3182.1	881.6	823.0	814.2	881.6	906.4	824.8	796.4
50°	38547.1	31569.2	15064.5	1954.7	831.9	792.9	792.9	833.7	867.4	796.4	782.2
52.5°	41182.9	32807.3	13796.2	1341.0	801.7	760.9	784.0	801.7	814.2	750.3	762.7
55°	43072.0	33905.2	11905.4	1078.4	784.0	739.7	794.6	759.2	741.4	686.4	674.0
57.5°	45168.5	35210.7	9972.0	956.1	760.9	752.1	759.2	691.8	642.1	585.3	572.9
60°	46631.9	35913.1	7605.8	899.3	734.3	739.7	700.6	610.2	519.7	478.9	470.0
62.5°	47909.0	36314.0	5574.9	826.6	709.5	707.7	635.0	521.5	427.5	383.1	376.0
65°	47715.6	35687.8	3613.1	768.0	690.0	666.9	569.4	447.0	356.5	322.8	319.3
67.5°	45588.9	32917.3	2275.7	707.7	656.3	615.5	510.8	399.1	328.1	289.1	285.6
70°	41124.4	29091.3	1392.4	629.7	583.6	544.5	452.3	374.3	310.4	264.3	255.4
72.5°	34953.5	24915.9	984.4	555.2	509.1	462.9	383.1	356.5	296.2	237.7	230.6
75°	28717.0	18353.0	824.8	484.2	434.6	372.5	326.4	331.7	278.5	216.4	211.1
77.5°	20222.5	11442.5	768.0	395.5	342.3	296.2	282.0	303.3	255.4	198.7	193.3
80°	11802.5	6426.3	635.0	312.2	257.2	228.8	235.9	257.2	223.5	179.1	172.1
82.5°	4764.3	2543.6	447.0	243.0	188.0	182.7	193.3	209.3	184.5	150.8	147.2
85°	1701.0	794.6	253.6	159.6	120.6	125.9	124.2	149.0	133.0	110.0	108.2
87.5°	447.0	157.9	113.5	63.9	51.4	51.4	47.9	69.2	63.9	49.7	55.0
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)