

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: P510578

Luminaire Tested: **CTN-CA10-760-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)
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-T3-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: 80973 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

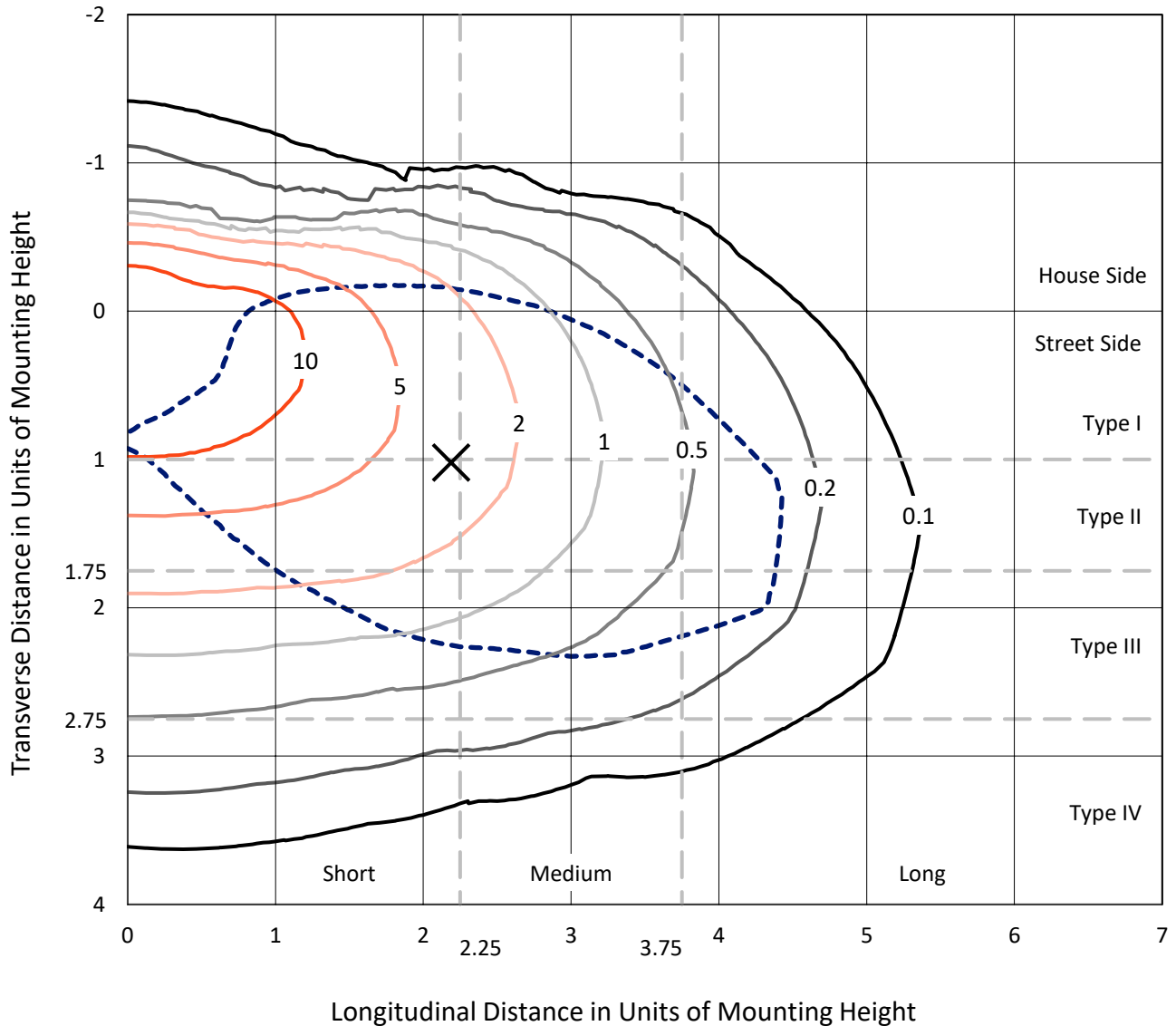
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

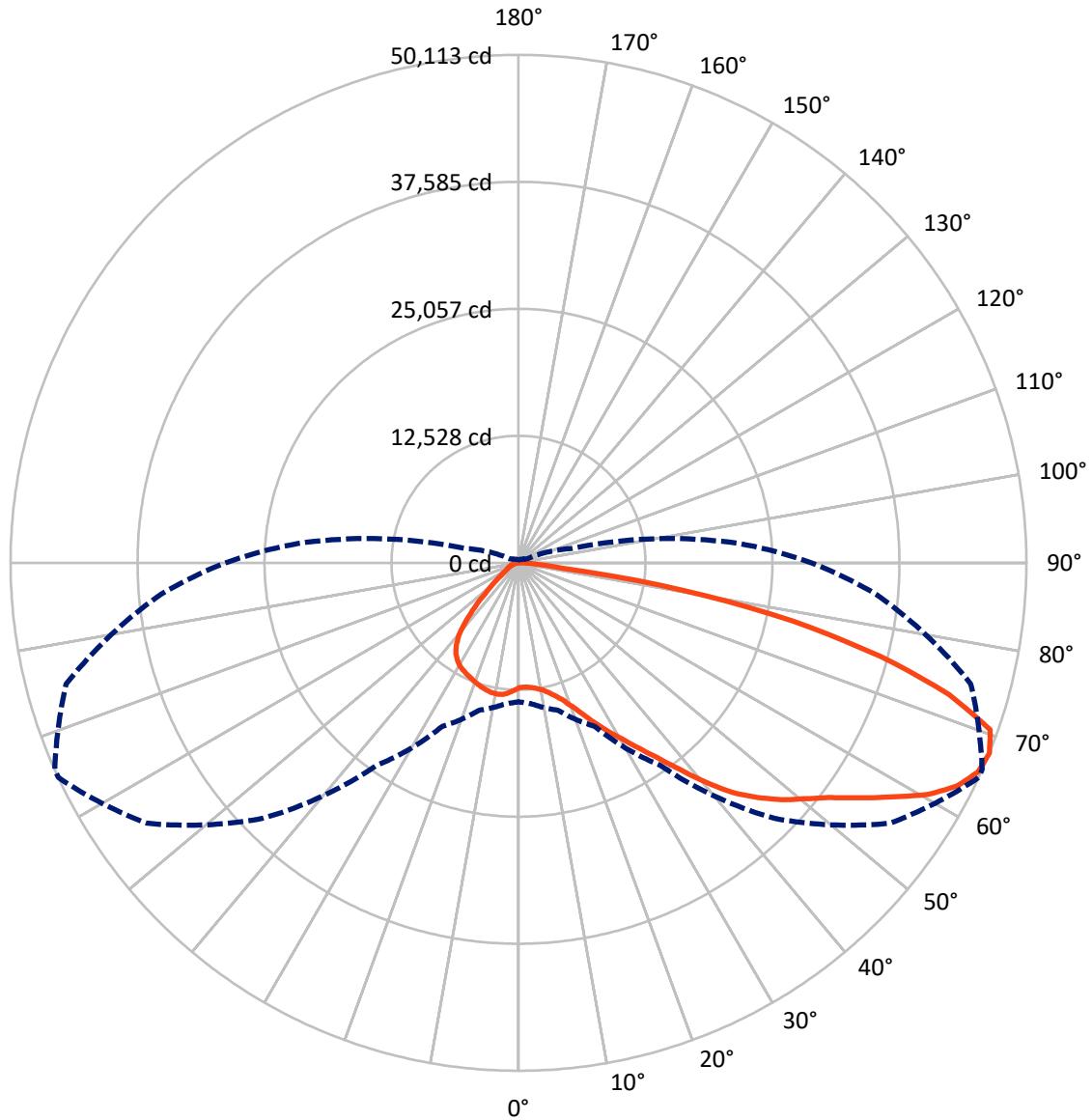
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 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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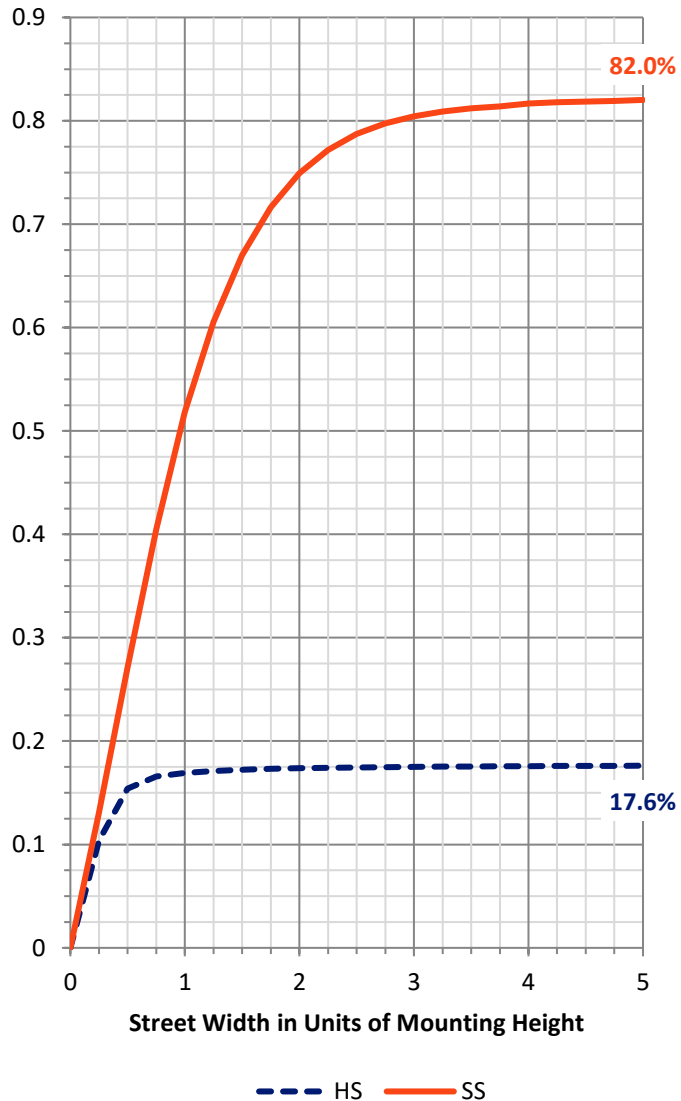
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14471.9	0.0	14471.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	66501.2	0.0	66501.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	80973.0	0.0	80973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1217.3	1.5
10°-20°	3758.3	4.6
20°-30°	6519.9	8.1
30°-40°	9835.1	12.1
40°-50°	13637.1	16.8
50°-60°	16833.2	20.8
60°-70°	17935.5	22.1
70°-80°	10263.0	12.7
80°-90°	973.8	1.2
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°	80973.0	100.0
0°-180°	80973.0	100.0

Coefficient of Utilization

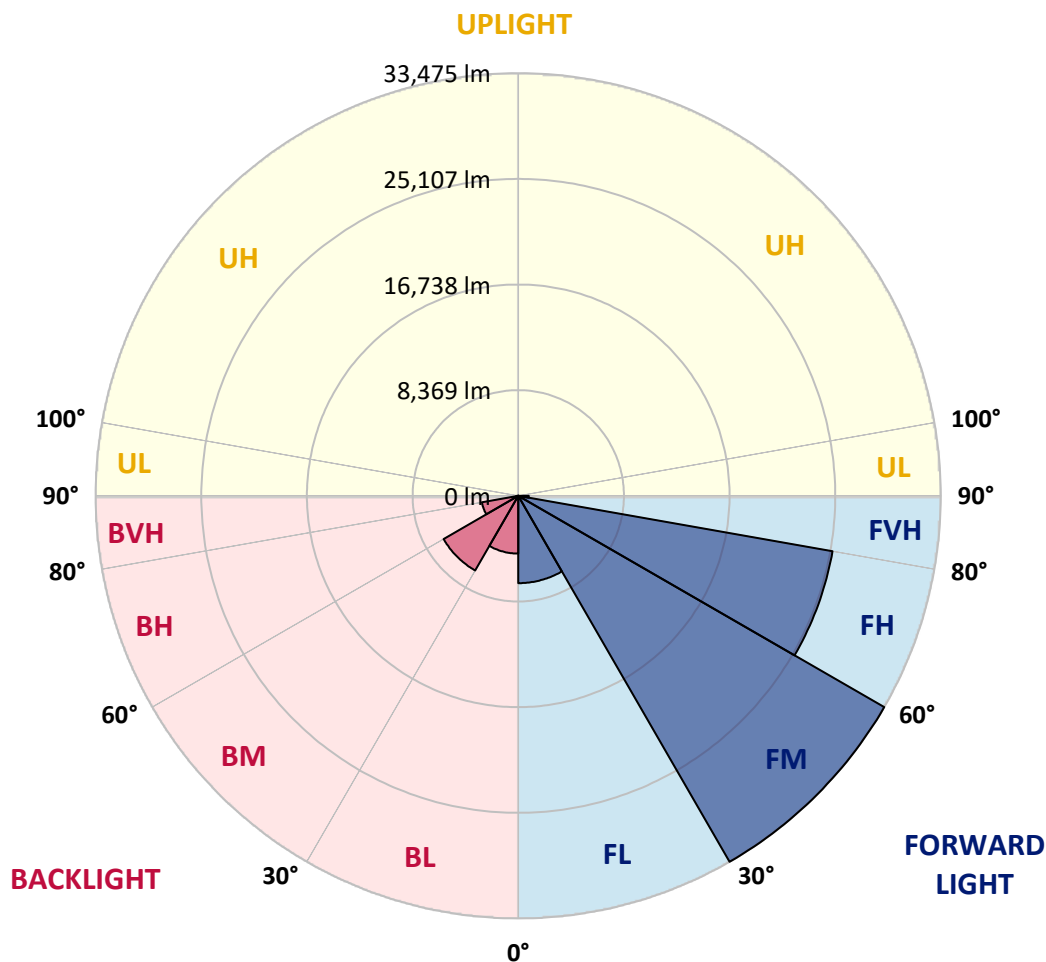


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6916.2	8.5			
FM (30°-60°)	33475.4	41.3			
FH (60°-80°)	25277.5	31.2			G5
FVH (80°-90°)	832.0	1.0			G5
BL (0°-30°)	4579.3	5.7	B4/5000		
BM (30°-60°)	6830.0	8.4	B4/8500		
BH (60°-80°)	2920.9	3.6	B4/5000		G4/5000
BVH (80°-90°)	141.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4
2.5°	12185.5	12169.6	12155.4	12180.2	12194.4	12217.5	12251.2	12274.2	12281.3	12302.6	12329.2
5°	12380.6	12378.9	12359.4	12348.7	12318.6	12307.9	12315.0	12343.4	12345.2	12371.8	12455.1
7.5°	12763.8	12760.2	12712.3	12691.0	12627.2	12556.2	12503.0	12508.4	12506.6	12533.2	12644.9
10°	13342.0	13313.6	13246.2	13180.6	13056.4	12923.4	12825.9	12737.2	12737.2	12776.2	12900.3
12.5°	13994.7	14033.8	13941.5	13842.2	13634.7	13395.2	13224.9	13125.6	13115.0	13134.5	13223.2
15°	14805.3	14805.3	14743.3	14601.4	14418.7	14085.2	13734.0	13608.1	13590.3	13631.1	13625.8
17.5°	15718.8	15745.4	15628.3	15557.4	15277.1	14908.2	14468.3	14250.2	14250.2	14223.6	14101.2
20°	16884.2	16738.7	16751.1	16634.1	16428.3	15892.6	15445.7	15128.2	15124.6	15071.4	14727.3
22.5°	18150.6	18070.8	18001.6	17898.7	17614.9	17136.0	16515.2	16201.3	16194.2	16062.9	15552.1
25°	19399.3	19459.6	19383.3	19195.3	18987.8	18466.3	17781.7	17473.0	17471.3	17253.1	16529.4
27.5°	20683.5	20749.1	20724.3	20554.0	20277.3	19869.3	19221.9	18819.3	18794.5	18652.6	17742.6
30°	22102.5	22043.9	22120.2	22047.5	21909.1	21244.0	20658.7	20190.4	20250.7	20208.1	19120.8
32.5°	23134.8	23172.0	23422.1	23429.2	23283.8	22790.7	22075.9	21788.5	21884.3	21827.5	20814.7
35°	24067.8	24128.1	24450.9	24768.4	24874.8	24335.6	23608.4	23590.6	23714.8	24060.7	23149.0
37.5°	24869.5	24912.1	25364.4	25777.6	26121.7	25752.8	25224.2	25853.9	26036.6	26744.3	25557.7
40°	25350.2	25405.2	25990.5	26572.3	27186.0	27054.7	27005.1	28495.0	28667.0	29289.6	27315.5
42.5°	25078.8	25187.0	26162.5	27226.8	28129.6	28392.1	29071.5	30987.1	31184.0	31237.2	29043.1
45°	24594.6	24729.4	25820.2	27542.5	29014.7	29857.2	31150.3	33018.0	33126.2	32975.4	30474.5
47.5°	24073.1	24216.8	25435.3	27448.5	29726.0	31561.8	33007.4	34930.1	35006.4	34543.4	31916.5
50°	23480.7	23613.7	24924.5	27228.6	30261.6	33170.6	34915.9	36583.2	36868.8	35953.5	33037.5
52.5°	22760.5	22902.4	24293.0	26884.4	30731.7	34364.3	36599.2	38451.0	38470.5	37716.6	34300.4
55°	21827.5	22074.1	23500.2	26288.5	30978.2	35389.5	38066.1	40921.8	41047.7	40318.7	35357.6
57.5°	20789.9	21004.5	22545.9	25493.8	30756.5	36168.2	40425.1	43571.7	43555.8	42092.4	36281.7
60°	19418.8	19571.4	21302.5	24454.4	30041.7	37110.0	42881.7	46411.5	46383.1	43830.7	36875.9
62.5°	17659.3	17811.8	19440.1	22824.4	28991.6	37741.5	44549.0	48538.2	48456.6	45095.4	37058.6
65°	15619.5	15892.6	17306.3	20708.3	27134.5	37326.4	45354.3	49790.4	49659.2	46060.3	36622.2
67.5°	13707.4	13939.8	15059.0	17795.8	24394.1	35643.1	44786.7	50113.2	50074.2	46200.4	35389.5
70°	11000.7	11085.8	12111.0	14454.1	20296.8	32038.9	42825.0	49368.3	49386.0	44909.1	32913.4
72.5°	7529.5	7737.0	8192.9	10042.9	14769.9	25479.7	36911.4	44430.2	44433.7	40269.0	28675.9
75°	4049.4	4370.5	4902.6	5819.6	8256.7	16350.3	29642.6	36867.0	36936.2	33575.0	22792.5
77.5°	2007.9	2123.2	2431.8	3112.9	3785.1	7714.0	19064.1	27673.8	27838.7	25772.3	15545.0
80°	918.8	938.3	961.4	956.0	1449.1	3384.3	8184.0	16619.9	16669.5	15328.6	7096.7
82.5°	718.4	714.8	725.5	659.8	663.4	1305.5	2832.6	4352.7	4641.9	3653.9	2250.9
85°	434.6	432.8	466.5	361.8	445.2	705.9	1429.6	1736.5	1757.8	1429.6	1165.3
87.5°	165.0	159.6	147.2	129.5	149.0	198.7	494.9	638.5	624.4	443.4	402.6
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°	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4	12304.4
2.5°	12352.3	12409.0	12513.7	12593.5	12620.1	12705.2	12786.8	12801.0	12859.6	12882.6	12958.9
5°	12506.6	12602.4	12765.5	12873.7	12921.6	13063.5	13155.8	13201.9	13185.9	13194.8	13279.9
7.5°	12731.8	12822.3	12953.6	13084.8	13107.9	13132.7	13123.8	13116.7	13054.7	13001.5	13081.3
10°	12937.6	13022.7	13104.3	13123.8	13006.8	12941.1	12824.1	12733.6	12613.0	12558.0	12621.9
12.5°	13226.7	13244.5	13164.6	13058.2	12806.3	12572.2	12382.4	12217.5	12068.5	11965.6	12050.7
15°	13531.8	13462.6	13230.3	12919.9	12529.6	12194.4	11884.0	11609.1	11362.5	11302.2	11325.3
17.5°	13936.2	13748.2	13279.9	12758.5	12151.8	11630.4	11231.3	10883.6	10560.8	10426.0	10413.6
20°	14429.3	14126.0	13381.0	12554.5	11704.9	11011.3	10394.1	9874.4	9429.2	9063.8	9072.6
22.5°	15071.4	14631.5	13533.6	12341.6	11210.0	10285.9	9388.4	8505.0	7772.5	7456.8	7378.7
25°	15919.2	15263.0	13750.0	12148.3	10656.6	9363.5	8095.3	6848.4	6073.3	5766.4	5732.7
27.5°	16974.6	16110.8	14079.9	11933.7	10064.2	8269.1	6445.7	5223.6	4512.4	4189.6	4081.4
30°	18173.7	17155.5	14418.7	11710.2	9347.6	6862.6	4915.0	3717.7	2988.7	2699.6	2662.4
32.5°	19725.7	18478.7	14922.4	11359.0	8301.1	5393.9	3428.6	2320.0	1825.2	1701.0	1665.5
35°	21930.4	20268.4	15545.0	10915.5	6956.6	3767.4	2124.9	1358.7	1094.4	1032.3	1019.9
37.5°	23986.2	22024.4	16172.9	10179.4	5282.2	2352.0	1215.0	870.9	812.4	814.1	817.7
40°	25616.2	23225.2	16680.2	9211.0	3474.7	1335.6	844.3	723.7	725.5	720.1	716.6
42.5°	27067.1	24183.1	16909.0	7779.6	2013.2	894.0	732.6	666.9	651.0	656.3	652.7
45°	28268.0	25160.4	16465.5	6170.8	1186.6	801.7	691.8	619.0	601.3	629.7	633.2
47.5°	29530.9	26088.0	15786.2	4649.0	963.1	762.7	654.5	583.6	574.7	610.2	613.7
50°	30593.3	26760.3	14628.0	3503.1	918.8	720.1	620.8	548.1	546.3	578.2	578.2
52.5°	31482.0	27166.5	13253.3	2704.9	888.6	682.9	587.1	514.4	514.4	525.0	526.8
55°	32108.1	27084.9	12433.9	2128.5	856.7	647.4	551.6	482.5	461.2	454.1	457.6
57.5°	32221.6	26868.5	11483.1	1660.2	819.5	613.7	519.7	445.2	406.2	400.9	399.1
60°	32148.9	26393.1	10397.6	1387.1	776.9	581.8	487.8	406.2	367.2	354.7	358.3
62.5°	31845.6	25550.6	9143.6	1216.8	734.3	557.0	452.3	379.6	344.1	328.1	328.1
65°	30930.3	24344.5	7281.2	1066.0	681.1	530.3	423.9	368.9	329.9	312.2	308.6
67.5°	28918.9	21841.7	5472.0	934.8	629.7	502.0	420.4	367.2	322.8	298.0	294.4
70°	26221.1	18762.5	3735.5	821.2	572.9	475.4	418.6	368.9	315.7	283.8	280.2
72.5°	21889.6	14791.1	2151.5	714.8	516.2	450.5	411.5	370.7	303.3	264.3	259.0
75°	16447.8	10374.6	1262.9	613.7	461.2	413.3	392.0	360.1	283.8	241.2	235.9
77.5°	9892.1	4844.1	950.7	509.1	395.5	363.6	349.4	329.9	259.0	223.5	218.2
80°	3629.1	1839.4	746.7	408.0	314.0	315.7	301.5	289.1	235.9	205.8	202.2
82.5°	1582.2	1124.5	551.6	310.4	246.5	282.0	248.3	237.7	202.2	184.5	177.4
85°	959.6	670.5	354.7	211.1	170.3	191.6	173.8	182.7	156.1	145.4	140.1
87.5°	317.5	200.4	157.9	102.9	85.1	79.8	78.0	94.0	88.7	81.6	81.6
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)