

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: P510549

Luminaire Tested: **CTN-CA10-630-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-630-740-U-T3  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 92457 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

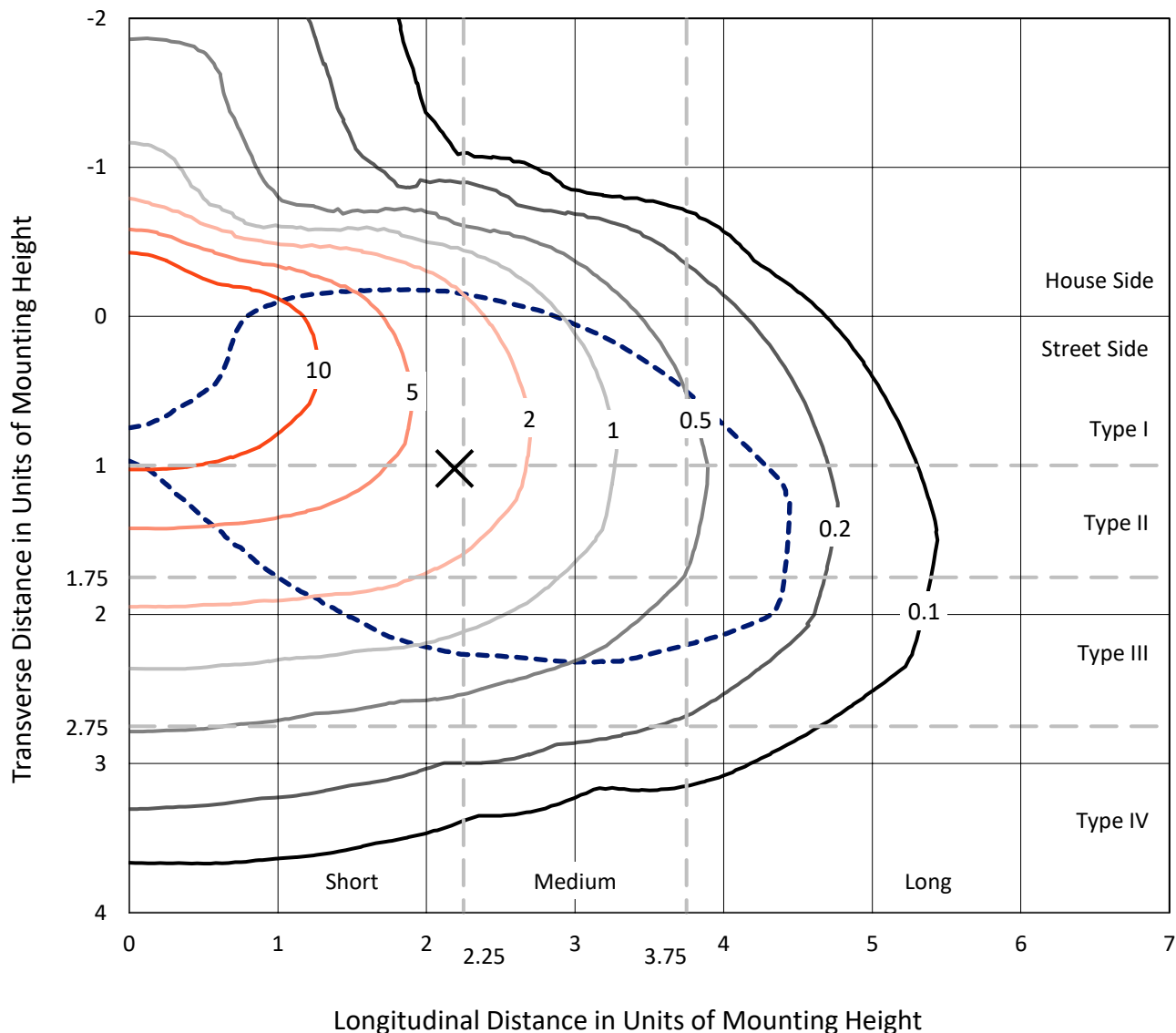
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

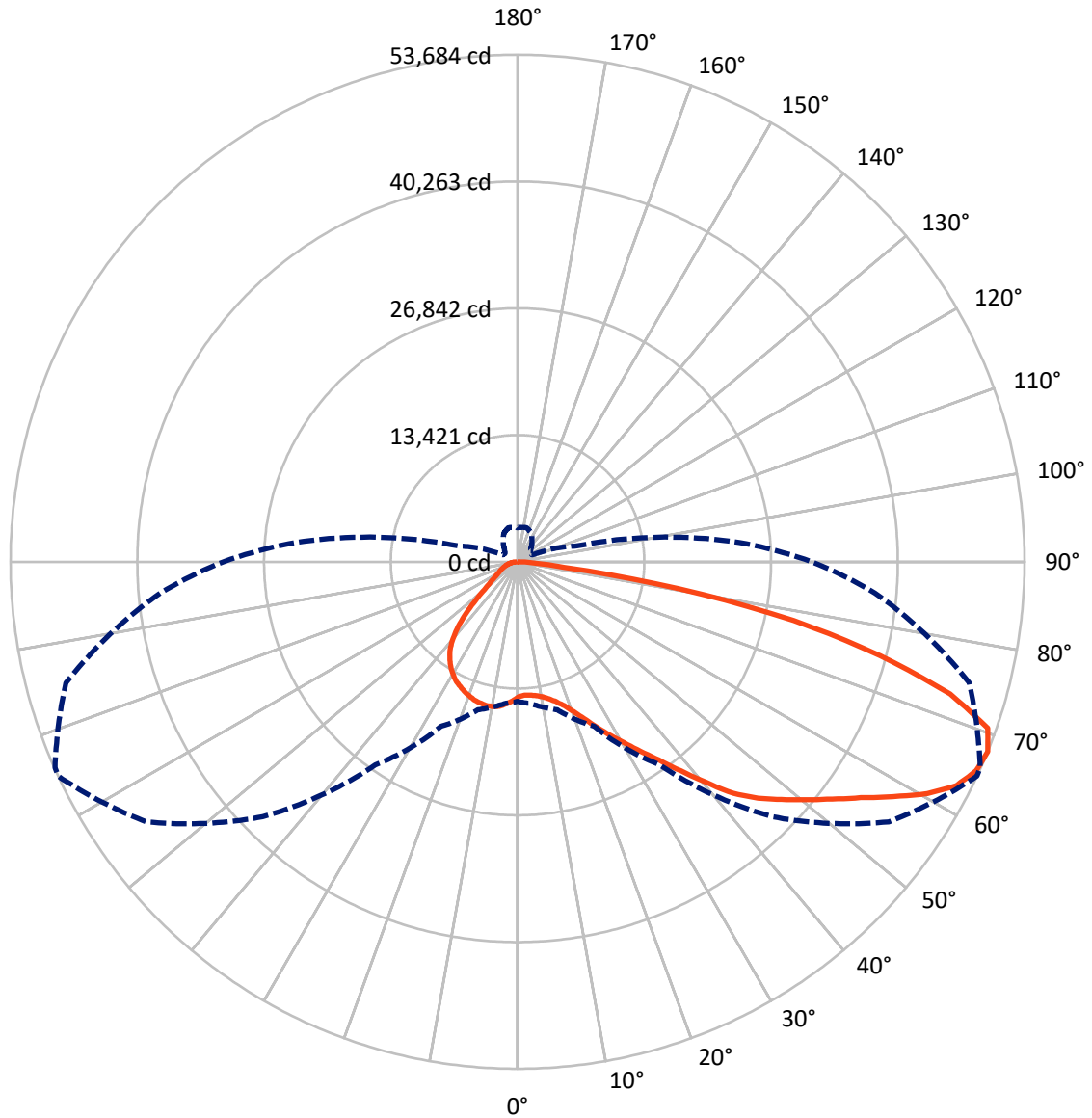
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.7 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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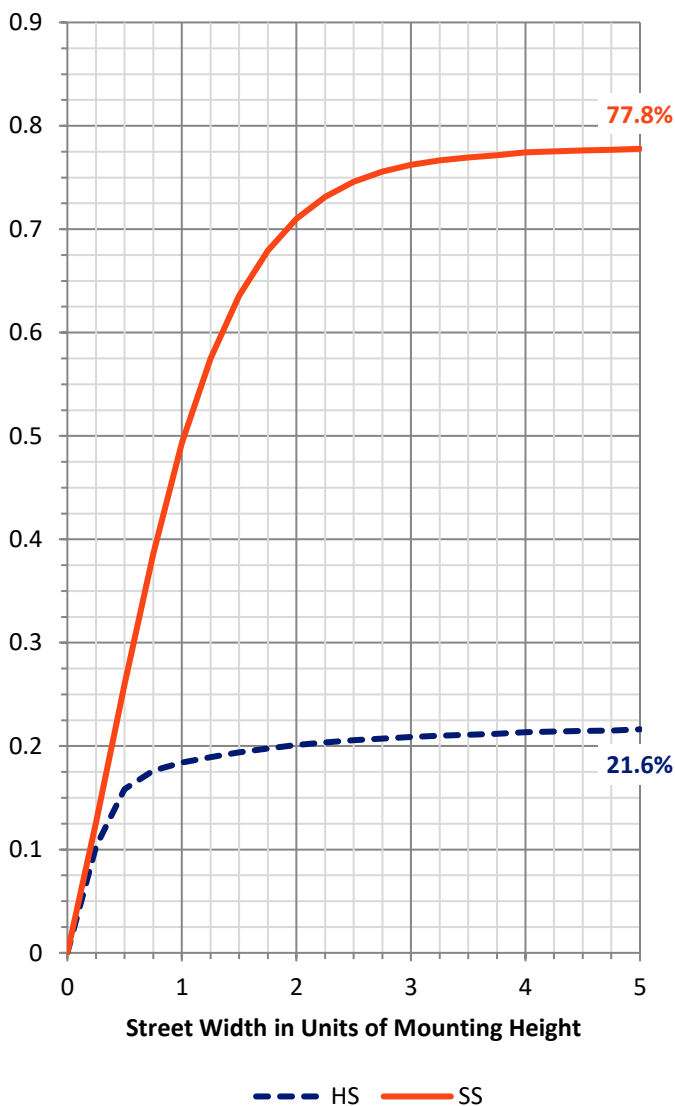
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20422.6	0.0	20422.6
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	72034.4	0.0	72034.4
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	92457.0	0.0	92457.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1422.9	1.5
10°-20°	4445.6	4.8
20°-30°	7695.9	8.3
30°-40°	11308.3	12.2
40°-50°	15284.6	16.5
50°-60°	18795.5	20.3
60°-70°	20140.6	21.8
70°-80°	11878.7	12.8
80°-90°	1484.8	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°	92457.0	100.0
0°-180°	92457.0	100.0

**Coefficient of Utilization**



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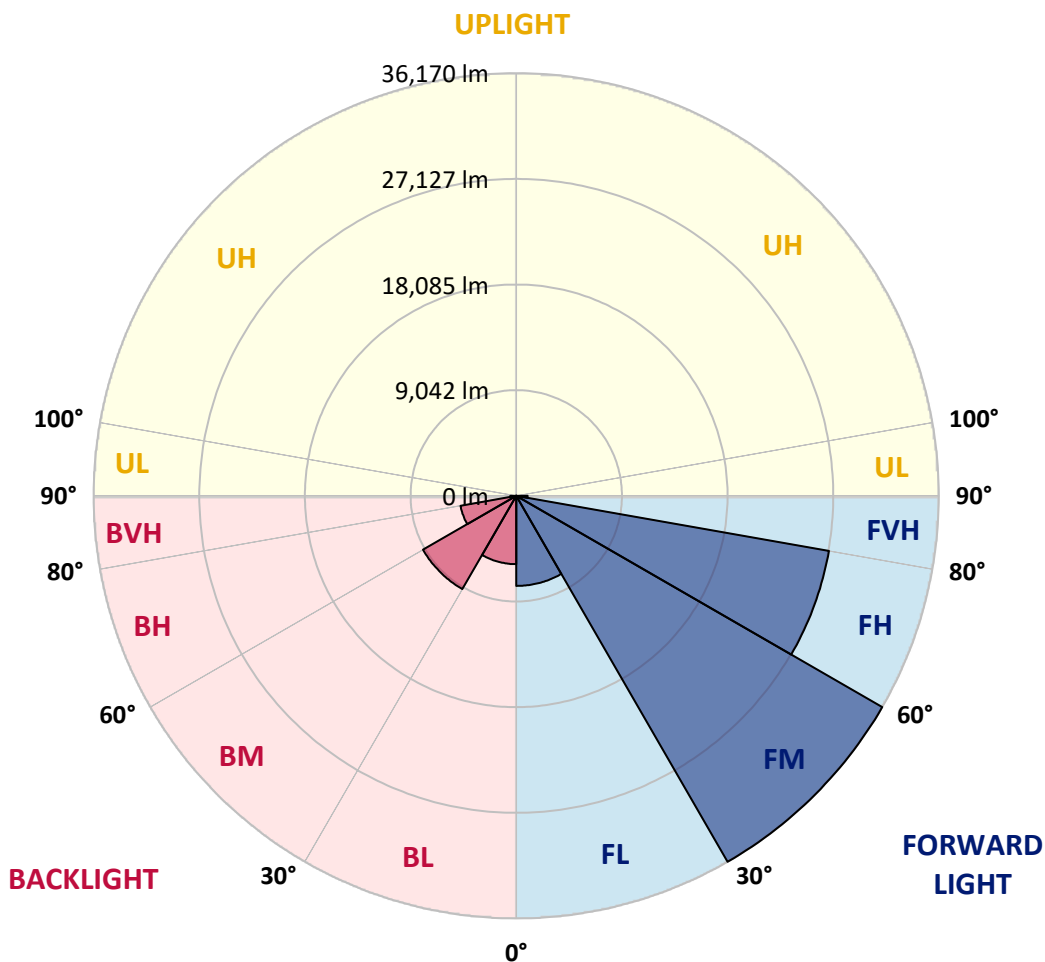
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7714.8	8.3			
FM (30°-60°)	36169.8	39.1			
FH (60°-80°)	27176.1	29.4			G5
FVH (80°-90°)	973.7	1.1			G5
BL (0°-30°)	5849.6	6.3	B5		
BM (30°-60°)	9218.7	10.0	B5		
BH (60°-80°)	4843.2	5.2	B4/5000		G4/5000
BVH (80°-90°)	511.1	0.6			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1
2.5°	14011.5	13985.1	13973.8	14009.7	14036.0	14066.2	14109.6	14151.0	14156.7	14211.4	14283.0
5°	14181.2	14158.6	14134.1	14128.4	14119.0	14117.1	14128.4	14175.5	14186.8	14239.6	14394.2
7.5°	14558.2	14535.6	14490.3	14473.4	14422.5	14332.0	14288.6	14313.1	14318.8	14382.9	14575.2
10°	15172.7	15103.0	15048.3	14991.8	14831.5	14688.3	14582.7	14537.5	14528.0	14590.2	14812.7
12.5°	15906.0	15847.6	15787.3	15638.3	15434.7	15176.5	14989.9	14886.2	14878.7	14931.4	15099.2
15°	16680.8	16680.8	16639.3	16462.1	16262.3	15834.4	15546.0	15372.5	15383.9	15425.3	15502.6
17.5°	17681.7	17598.8	17579.9	17378.2	17155.8	16765.6	16307.5	16030.4	16043.6	16062.5	16004.0
20°	18699.6	18675.1	18646.9	18513.0	18311.3	17809.9	17295.3	16931.5	16933.4	16865.5	16605.4
22.5°	20045.6	19964.5	19985.2	19834.4	19561.1	19046.5	18454.6	18022.9	18051.2	17953.2	17481.9
25°	21382.1	21301.0	21257.7	21155.9	20920.2	20432.0	19728.9	19333.0	19299.1	19121.9	18437.6
27.5°	22716.7	22669.6	22705.4	22582.8	22390.6	21845.8	21201.1	20761.9	20784.5	20662.0	19642.2
30°	24098.4	24045.6	24202.1	24004.2	23885.4	23355.7	22737.4	22220.9	22239.8	22285.0	21140.8
32.5°	25140.8	25203.1	25476.4	25453.8	25431.1	24841.1	24190.8	23904.3	23932.5	24090.9	22920.3
35°	26147.5	26153.1	26537.7	26828.0	26950.5	26456.6	25781.8	25772.3	25957.1	26439.6	25401.0
37.5°	26982.5	26963.7	27476.4	27926.9	28262.5	27879.8	27508.5	28087.2	28254.9	29255.9	27898.7
40°	27438.7	27478.3	28138.1	28699.8	29359.6	29178.6	29218.2	30698.0	31110.8	31987.3	29766.7
42.5°	27118.3	27238.9	28266.3	29412.4	30407.7	30648.9	31444.4	33518.0	33693.3	33851.6	31604.7
45°	26581.0	26707.3	27845.9	29697.0	31272.9	32292.7	33659.4	35687.7	35879.9	35702.8	33133.4
47.5°	26021.2	26151.2	27419.9	29582.0	31989.2	33944.0	35629.2	37606.6	37851.7	37303.2	34603.8
50°	25310.5	25512.2	26899.6	29338.8	32569.8	35725.4	37493.5	39582.2	39695.3	38903.6	35717.8
52.5°	24435.8	24658.3	26158.8	28922.2	33024.1	36969.5	39380.5	41725.5	41714.2	40773.5	36992.1
55°	23515.9	23717.6	25263.4	28266.3	33278.6	37927.1	40888.5	44087.4	44223.2	43435.2	38145.8
57.5°	22337.8	22520.6	24205.9	27384.0	33014.7	38739.6	43331.5	46894.3	46962.1	45288.2	39063.8
60°	20777.0	21046.5	22739.3	26262.4	32256.9	39680.2	46023.4	49846.2	49929.2	47111.0	39653.8
62.5°	19063.5	19170.9	20895.7	24535.7	31154.1	40405.9	47889.6	52155.4	52034.8	48536.1	39831.0
65°	16974.8	17059.7	18552.6	22315.2	29105.1	40008.2	48558.8	53343.0	53194.1	49431.5	39286.2
67.5°	14788.2	15050.2	16222.7	19235.0	26245.5	38172.2	47993.2	53684.2	53608.8	49499.4	37985.5
70°	11949.3	12041.7	13101.1	15670.4	21898.6	34496.3	46108.2	52809.5	52751.1	47983.8	35329.5
72.5°	8426.2	8335.7	8850.3	10865.4	15817.4	27440.6	39367.3	47895.2	47993.2	42924.4	30765.8
75°	4473.2	4646.6	5447.8	6652.3	8967.2	17640.3	31386.0	39638.7	39604.8	35893.1	24319.0
77.5°	2382.7	2378.9	2929.4	3444.0	4390.3	8105.7	20701.6	29893.0	30058.9	27810.1	16697.7
80°	1144.2	1187.6	1221.5	1400.6	2188.5	3745.6	8659.9	17334.9	18465.9	16586.5	7932.3
82.5°	916.1	919.9	923.7	884.1	904.8	1525.0	3336.5	5016.1	5197.1	4177.3	2558.0
85°	678.6	637.1	631.5	535.4	605.1	916.1	1683.3	2141.4	2035.8	1981.2	1443.9
87.5°	273.3	256.4	248.8	233.7	233.7	345.0	593.8	774.8	772.9	705.0	484.5
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°	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1	14281.1
2.5°	14339.5	14407.4	14565.7	14701.5	14752.4	14876.8	14993.6	15061.5	15108.6	15136.9	15265.1
5°	14488.5	14624.2	14876.8	15067.2	15251.9	15481.9	15630.8	15725.0	15777.8	15808.0	15900.4
7.5°	14716.5	14854.2	15121.8	15414.0	15583.7	15772.2	15868.3	15936.2	15970.1	15960.7	16034.2
10°	14920.1	15055.9	15323.5	15547.9	15644.0	15751.4	15802.3	15817.4	15819.3	15826.8	15900.4
12.5°	15197.2	15280.2	15423.4	15570.5	15549.7	15553.5	15596.9	15578.0	15534.7	15527.1	15576.1
15°	15495.1	15497.0	15508.3	15476.2	15346.2	15289.6	15229.3	15178.4	15059.6	15052.1	15129.4
17.5°	15868.3	15779.7	15574.2	15355.6	15046.4	14833.4	14618.5	14529.9	14384.8	14356.5	14394.2
20°	16349.0	16164.3	15664.7	15121.8	14543.1	14162.3	13902.2	13640.2	13438.5	13389.5	13425.3
22.5°	17038.9	16675.1	15779.7	14873.0	13977.6	13327.3	12822.1	12507.3	12168.0	11994.5	12011.5
25°	17872.1	17302.8	15979.5	14558.2	13312.2	12373.4	11553.4	10922.0	10539.3	10284.8	10352.7
27.5°	18963.6	18181.3	16218.9	14247.2	12484.7	11153.8	9964.3	9108.5	8718.3	8597.7	8518.5
30°	20228.4	19242.5	16471.5	13787.2	11591.1	9643.9	8120.8	7408.2	6961.5	6889.8	6829.5
32.5°	21921.2	20579.0	16944.7	13287.7	10524.2	8134.0	6480.8	5660.8	5559.0	5500.6	5487.4
35°	24104.1	22330.2	17440.4	12639.2	9133.0	6363.9	4903.0	4460.0	4411.0	4475.1	4480.8
37.5°	26420.8	24230.4	18034.2	11907.8	7532.6	4748.4	3751.2	3444.0	3498.6	3698.5	3743.7
40°	27989.1	25482.0	18573.3	10914.4	5555.2	3449.6	2729.5	2663.6	2965.2	3221.5	3274.3
42.5°	29493.4	26430.2	18792.0	9600.5	3962.4	2456.2	2203.6	2429.8	2852.1	3132.9	3170.6
45°	30777.1	27533.0	18241.6	8024.6	2686.2	2052.8	2111.3	2424.2	2893.5	3204.6	3232.9
47.5°	31998.6	28434.0	17489.4	6322.4	2118.8	1975.5	2109.4	2475.1	2985.9	3280.0	3296.9
50°	33165.5	29120.2	16205.7	4810.6	1985.0	1939.7	2126.3	2554.2	3036.8	3221.5	3214.0
52.5°	34030.7	29474.6	14839.1	3883.2	1932.2	1911.4	2171.6	2654.1	3046.2	3157.5	3149.9
55°	34666.0	29406.7	13941.8	3180.1	1888.8	1900.1	2245.1	2729.5	3136.7	3304.5	3298.8
57.5°	34724.4	29099.4	12922.0	2686.2	1836.0	1898.2	2324.3	2835.1	3589.1	3898.3	3804.0
60°	34654.7	28590.5	11904.1	2358.2	1777.6	1909.6	2407.2	3151.8	4241.4	4484.5	4418.5
62.5°	34311.6	27642.3	10379.1	2141.4	1726.7	1951.0	2469.4	3402.5	4209.3	4237.6	4143.3
65°	33252.2	26373.7	8377.1	1922.7	1675.8	1979.3	2520.3	3468.5	3866.2	3775.7	3728.6
67.5°	31156.0	23540.4	6461.9	1722.9	1609.8	1973.6	2671.1	3374.2	3736.2	3670.2	3609.9
70°	28177.7	20320.8	4486.4	1517.5	1498.6	1937.8	2633.4	3406.3	3674.0	3572.2	3491.1
72.5°	23540.4	15941.8	2854.0	1349.7	1332.7	1853.0	2539.2	3385.5	3632.5	3587.2	3476.0
75°	17725.1	11127.4	1813.4	1166.8	1185.7	1698.4	2388.4	3274.3	3611.7	3470.4	3257.4
77.5°	11159.5	5493.0	1410.0	991.5	1019.8	1464.7	2064.1	2859.6	3466.6	3381.8	3108.4
80°	4220.6	2230.0	1102.8	804.9	829.4	1138.6	1692.8	2352.5	3191.4	3330.9	3214.0
82.5°	1943.5	1394.9	827.5	646.6	656.0	829.4	1263.0	1741.8	2701.3	3057.5	3349.7
85°	1134.8	914.2	552.3	431.7	448.6	490.1	710.7	1063.2	1751.2	2331.8	2608.9
87.5°	386.4	318.6	214.9	182.8	177.2	201.7	171.5	348.7	520.3	916.1	1046.2
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)