

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: P510690

Luminaire Tested: **CTN-CA6-230-760-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA6-230-760-U-T4-HSS  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (6) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30390 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

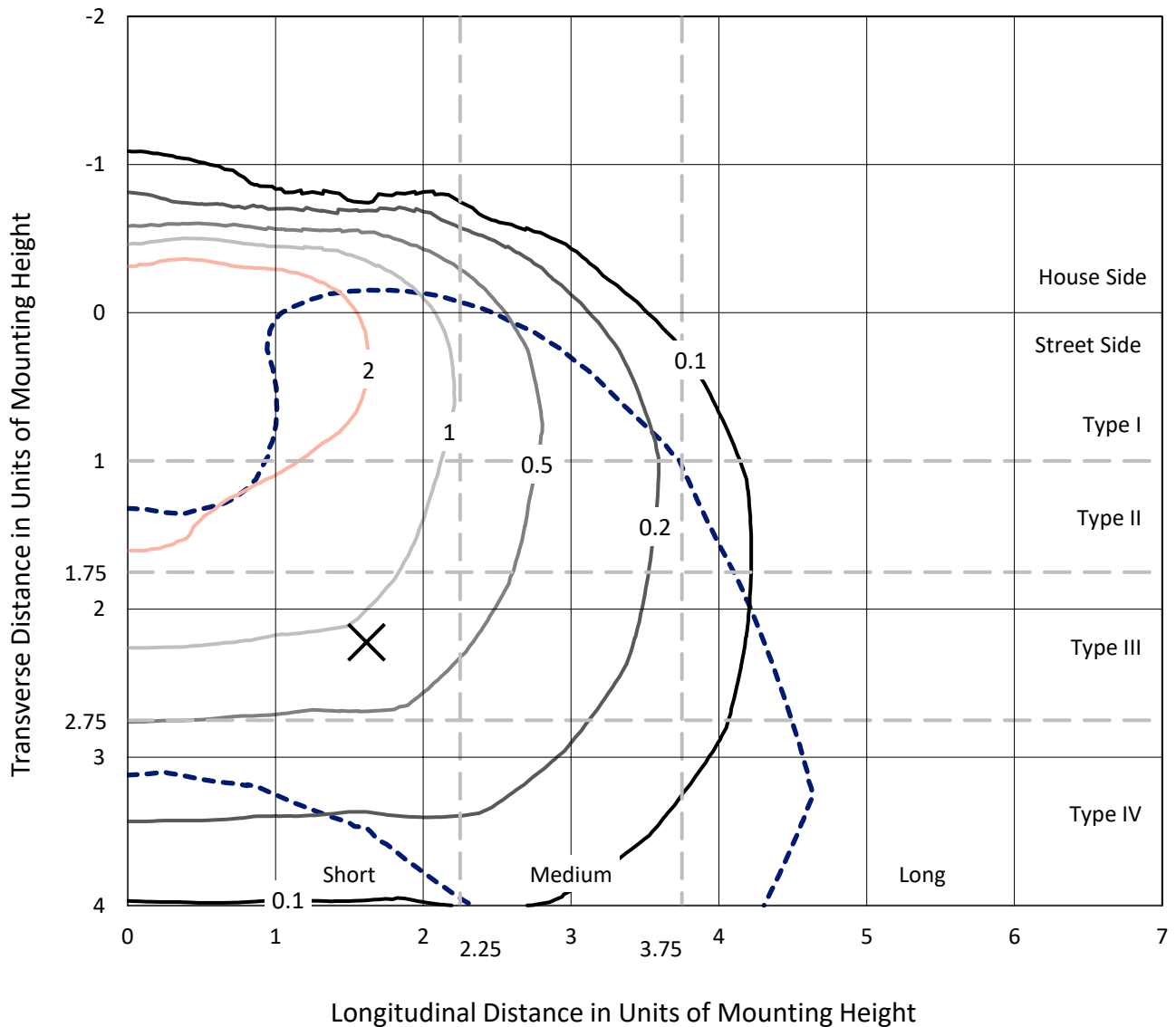
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

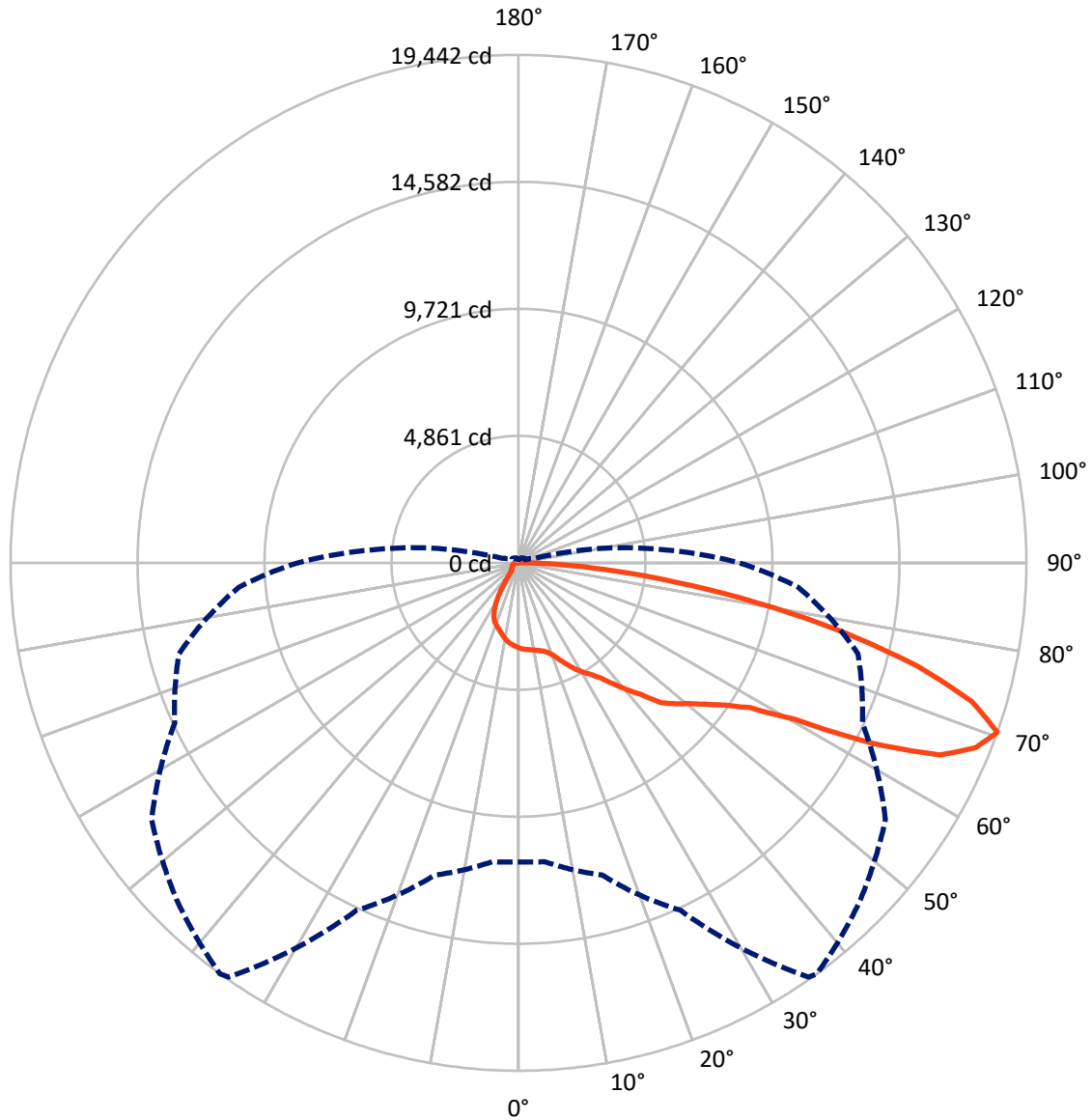
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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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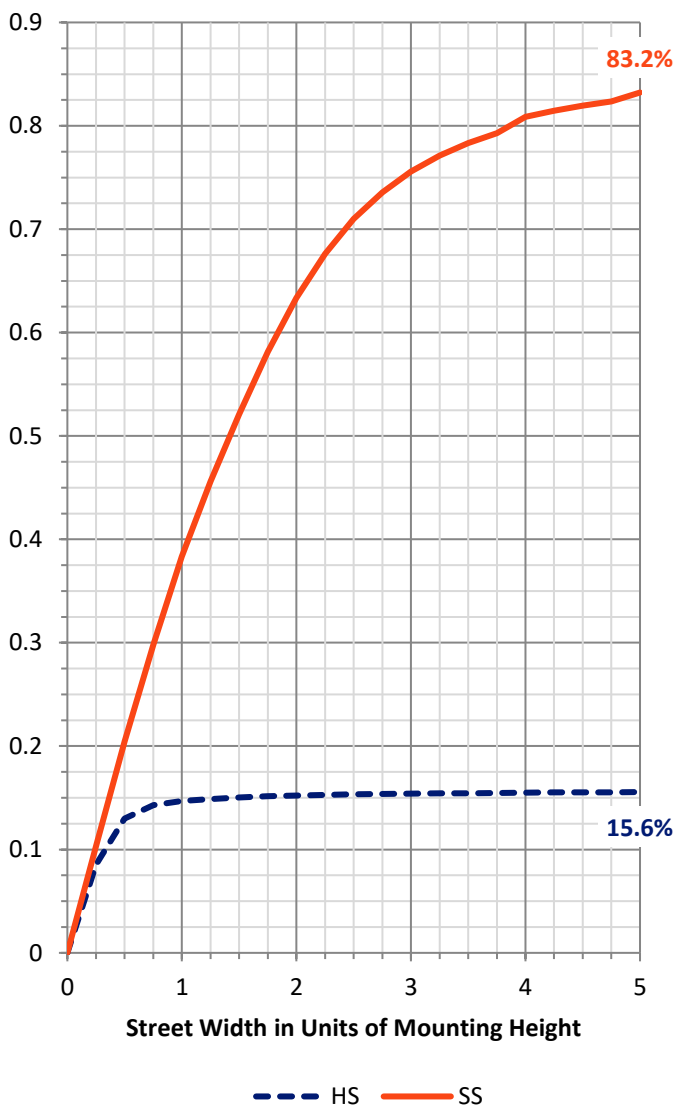
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4795.8	0.0	4795.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	25594.2	0.0	25594.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	30390.0	0.0	30390.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.8	1.0
10°-20°	918.4	3.0
20°-30°	1651.5	5.4
30°-40°	2613.4	8.6
40°-50°	4084.3	13.4
50°-60°	5865.0	19.3
60°-70°	7955.3	26.2
70°-80°	5887.8	19.4
80°-90°	1105.5	3.6
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°	30390.0	100.0
0°-180°	30390.0	100.0

**Coefficient of Utilization**



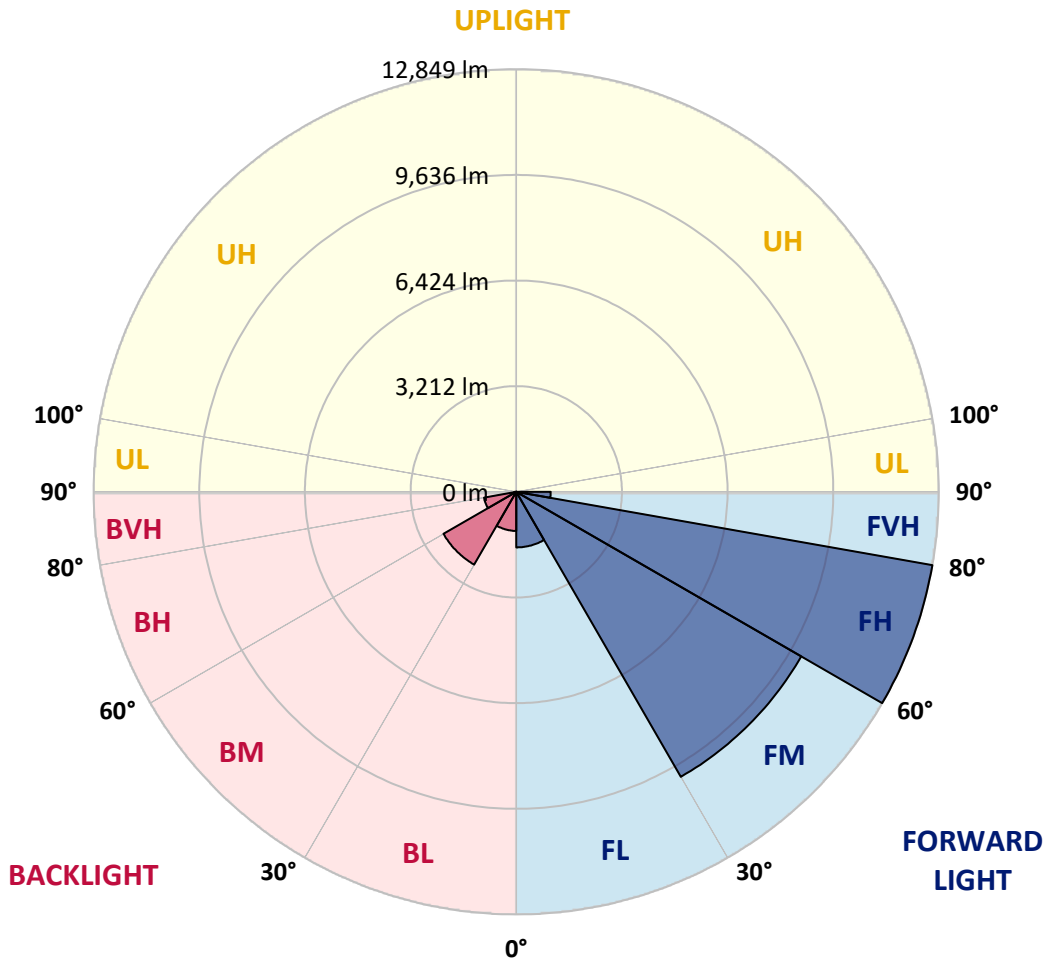
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.3	5.6			
FM	(30°-60°)	10007.2	32.9			
FH	(60°-80°)	12848.6	42.3			G5
FVH	(80°-90°)	1048.2	3.4			G5
BL	(0°-30°)	1188.4	3.9	B3/2500		
BM	(30°-60°)	2555.6	8.4	B3/5000		
BH	(60°-80°)	994.5	3.3	B2/1000		G2/1000
BVH	(80°-90°)	57.3	0.2			G1/100
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°	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1
2.5°	3322.1	3315.1	3309.5	3311.6	3307.4	3310.2	3303.8	3296.1	3277.9	3270.2	3266.7
5°	3351.6	3349.5	3343.8	3339.6	3331.9	3329.1	3322.1	3328.4	3318.6	3293.3	3278.6
7.5°	3369.1	3368.4	3362.1	3353.0	3357.2	3360.7	3367.7	3357.9	3345.2	3333.3	3303.1
10°	3376.8	3376.8	3369.1	3374.0	3395.8	3397.9	3401.4	3407.7	3395.8	3378.2	3348.0
12.5°	3396.5	3395.1	3397.9	3414.0	3436.4	3441.4	3458.9	3458.9	3460.3	3449.8	3414.7
15°	3445.6	3445.6	3451.9	3466.6	3505.2	3508.0	3534.0	3557.1	3559.9	3544.5	3517.8
17.5°	3559.2	3556.4	3552.9	3562.0	3603.4	3604.8	3649.7	3679.2	3686.9	3703.8	3699.5
20°	3775.3	3772.5	3771.8	3772.5	3769.7	3765.5	3809.7	3841.3	3880.6	3910.0	3924.8
22.5°	4084.7	4078.4	4078.4	4044.0	4017.4	4021.6	4028.6	4046.1	4098.1	4150.0	4205.4
25°	4418.0	4413.8	4417.3	4329.6	4293.8	4307.8	4298.7	4326.1	4394.1	4439.0	4498.0
27.5°	4690.2	4696.5	4676.9	4608.8	4585.7	4596.2	4575.1	4653.7	4728.8	4807.4	4896.5
30°	5029.1	4995.4	4947.0	4864.2	4855.8	4857.2	4855.8	4982.1	5137.8	5250.1	5373.6
32.5°	5471.8	5477.4	5368.7	5173.6	5102.1	5092.2	5120.3	5305.5	5516.0	5765.1	5927.8
35°	5919.4	5928.5	5849.3	5645.8	5441.6	5410.8	5369.4	5610.0	5913.8	6413.3	6658.9
37.5°	6394.4	6426.7	6332.7	6150.9	5908.9	5880.1	5684.4	5920.8	6369.8	7180.9	7502.9
40°	7030.1	6995.7	6882.0	6651.2	6426.0	6379.7	6152.4	6276.5	6956.4	8142.1	8375.7
42.5°	7498.7	7488.9	7392.8	7164.8	6938.1	6901.0	6717.8	6852.6	7695.2	9116.6	9221.2
45°	7870.6	7930.9	7928.8	7785.7	7658.0	7636.9	7528.9	7727.4	8588.3	10036.4	9985.2
47.5°	8201.0	8238.2	8178.6	8116.1	8056.5	8063.5	8143.5	8551.8	9501.1	10839.8	10613.1
50°	8742.0	8694.3	8426.9	8379.2	8463.4	8466.9	8710.4	9339.0	10506.5	11534.3	11145.0
52.5°	9463.2	9411.3	8861.9	8780.6	8979.8	8994.5	9399.4	10123.4	11543.5	12198.1	11674.0
55°	10536.7	10416.0	9827.3	9462.5	9553.7	9613.4	10103.8	10877.6	12355.2	12783.2	12074.6
57.5°	11855.0	11942.7	11641.0	10816.6	10437.0	10459.5	10909.9	11599.6	13071.6	13295.4	12308.9
60°	13248.4	13227.3	13353.6	13006.3	12279.4	12158.8	11929.3	12336.3	13626.5	13726.9	12550.3
62.5°	14011.7	14134.5	14555.4	14624.9	15280.9	15217.1	13653.2	13249.8	14267.8	13997.7	12616.2
65°	14007.5	14060.8	14844.5	15706.1	17755.5	17737.2	17010.4	14570.9	14745.6	14142.2	12484.3
67.5°	13102.4	13185.2	14101.5	15784.7	18899.1	18877.3	18375.0	16428.0	14895.7	13968.2	11869.0
70°	11452.3	11480.3	12374.2	14678.2	19358.6	19442.1	18422.0	17140.8	14522.5	13451.1	10747.1
72.5°	9447.8	9389.5	10263.7	12534.8	18188.3	18138.5	17643.2	16289.8	13893.8	12447.1	8765.1
75°	6956.4	7118.5	7902.9	10064.5	15572.8	15755.2	15974.8	14987.6	12339.8	10258.1	6061.1
77.5°	4593.4	4799.7	5592.5	7546.4	12328.6	12612.0	13181.0	12747.4	10038.5	7358.4	2886.4
80°	2373.5	2529.3	3242.8	5007.3	8838.1	9247.1	10290.4	9654.8	7117.1	3327.0	646.2
82.5°	898.1	877.7	1453.0	2866.0	5666.8	6038.7	6797.1	5789.6	2532.8	584.4	300.3
85°	394.3	417.5	602.0	1307.1	3240.0	3288.4	3850.4	2257.1	371.1	279.2	204.2
87.5°	170.5	195.7	252.6	376.1	1093.1	1262.2	1561.8	717.0	112.3	96.8	102.4
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°	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1	3256.1
2.5°	3260.3	3256.1	3249.1	3231.6	3202.8	3199.3	3196.5	3193.7	3188.1	3190.9	3207.0
5°	3267.4	3259.6	3234.4	3209.1	3183.9	3161.4	3134.1	3123.5	3109.5	3100.4	3117.2
7.5°	3291.2	3275.1	3237.9	3203.5	3134.8	3101.8	3066.7	3025.3	2995.8	2976.9	2993.7
10°	3331.2	3310.9	3264.6	3193.7	3113.0	3022.5	2960.8	2892.0	2835.9	2820.4	2835.9
12.5°	3396.5	3366.3	3312.3	3216.1	3073.0	2954.4	2837.3	2746.8	2656.3	2630.3	2638.0
15°	3502.4	3478.5	3395.8	3263.2	3073.7	2892.7	2718.7	2572.8	2454.2	2412.8	2410.0
17.5°	3672.2	3646.9	3551.5	3356.5	3099.0	2844.3	2602.2	2379.8	2200.2	2109.0	2094.3
20°	3915.6	3880.6	3736.0	3494.0	3153.7	2823.2	2494.2	2195.3	1916.1	1744.9	1718.9
22.5°	4186.5	4149.3	3936.0	3599.9	3193.0	2781.9	2391.1	1991.1	1623.5	1414.4	1385.0
25°	4523.2	4441.8	4127.5	3700.3	3183.9	2694.9	2223.4	1714.0	1315.5	1134.5	1114.8
27.5°	4855.8	4752.7	4322.6	3752.9	3143.9	2556.6	1977.8	1389.9	1030.0	901.6	885.4
30°	5268.3	5069.1	4495.9	3777.4	3042.8	2349.7	1648.8	1056.6	771.1	682.7	667.2
32.5°	5758.8	5457.1	4658.6	3750.1	2874.5	2033.9	1281.8	773.9	573.2	517.8	517.1
35°	6405.6	5932.8	4837.5	3660.3	2616.3	1693.7	898.8	529.0	446.9	428.0	431.5
37.5°	7162.0	6576.8	5019.3	3512.9	2324.4	1295.9	599.2	407.6	392.9	393.6	394.3
40°	7959.7	7288.2	5264.1	3306.0	1970.1	938.0	431.5	366.2	365.5	372.6	374.7
42.5°	8721.6	7979.3	5565.8	3030.2	1599.0	620.2	374.0	349.4	340.3	343.1	345.2
45°	9429.5	8572.2	5822.6	2761.5	1201.1	442.7	366.9	329.8	315.7	314.3	315.7
47.5°	9999.9	9047.2	5979.1	2445.8	856.0	367.6	352.2	311.5	291.9	287.7	285.6
50°	10434.2	9400.1	6035.9	2088.0	578.8	350.8	332.6	290.5	266.6	267.3	267.3
52.5°	10858.0	9720.7	5969.9	1727.3	425.9	336.1	319.2	273.6	248.4	261.7	265.2
55°	11163.2	9855.4	5777.7	1337.3	355.0	317.8	304.5	254.0	236.4	258.2	265.2
57.5°	11341.4	9961.4	5424.8	965.4	325.5	300.3	285.6	235.7	219.6	225.2	228.7
60°	11452.3	9813.3	4958.2	660.2	310.1	286.3	266.6	223.8	202.1	188.7	186.6
62.5°	11391.2	9442.9	4343.6	453.9	294.0	270.8	250.5	212.6	183.8	166.3	164.9
65°	10893.8	8757.4	3334.7	367.6	284.1	263.8	240.6	202.1	171.2	154.4	152.2
67.5°	9971.2	7525.4	1947.6	326.9	279.9	256.8	232.9	192.2	164.2	145.9	143.1
70°	8455.0	5660.5	652.5	291.9	279.2	256.1	226.6	185.2	156.5	137.5	134.7
72.5°	6099.7	3415.4	317.8	256.8	261.0	245.6	221.7	179.6	151.5	127.7	122.8
75°	3466.6	1112.0	287.0	221.7	242.8	234.3	218.9	180.3	153.7	115.8	110.2
77.5°	986.5	324.8	277.1	188.7	229.4	242.1	204.9	162.8	157.2	107.3	100.3
80°	333.3	289.1	267.3	146.6	185.2	200.0	177.5	143.1	158.6	97.5	90.5
82.5°	267.3	290.5	224.5	117.2	141.0	151.5	141.0	128.4	128.4	87.0	81.4
85°	214.0	269.4	142.4	93.3	105.2	116.5	99.6	96.1	89.8	73.0	70.9
87.5°	124.2	84.2	58.9	47.7	44.2	44.9	38.6	46.3	56.8	49.8	49.1
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)