

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: P510688

Luminaire Tested: **CTN-CA6-230-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510688  
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-CA6-230-760-U-T3-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: 32029 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

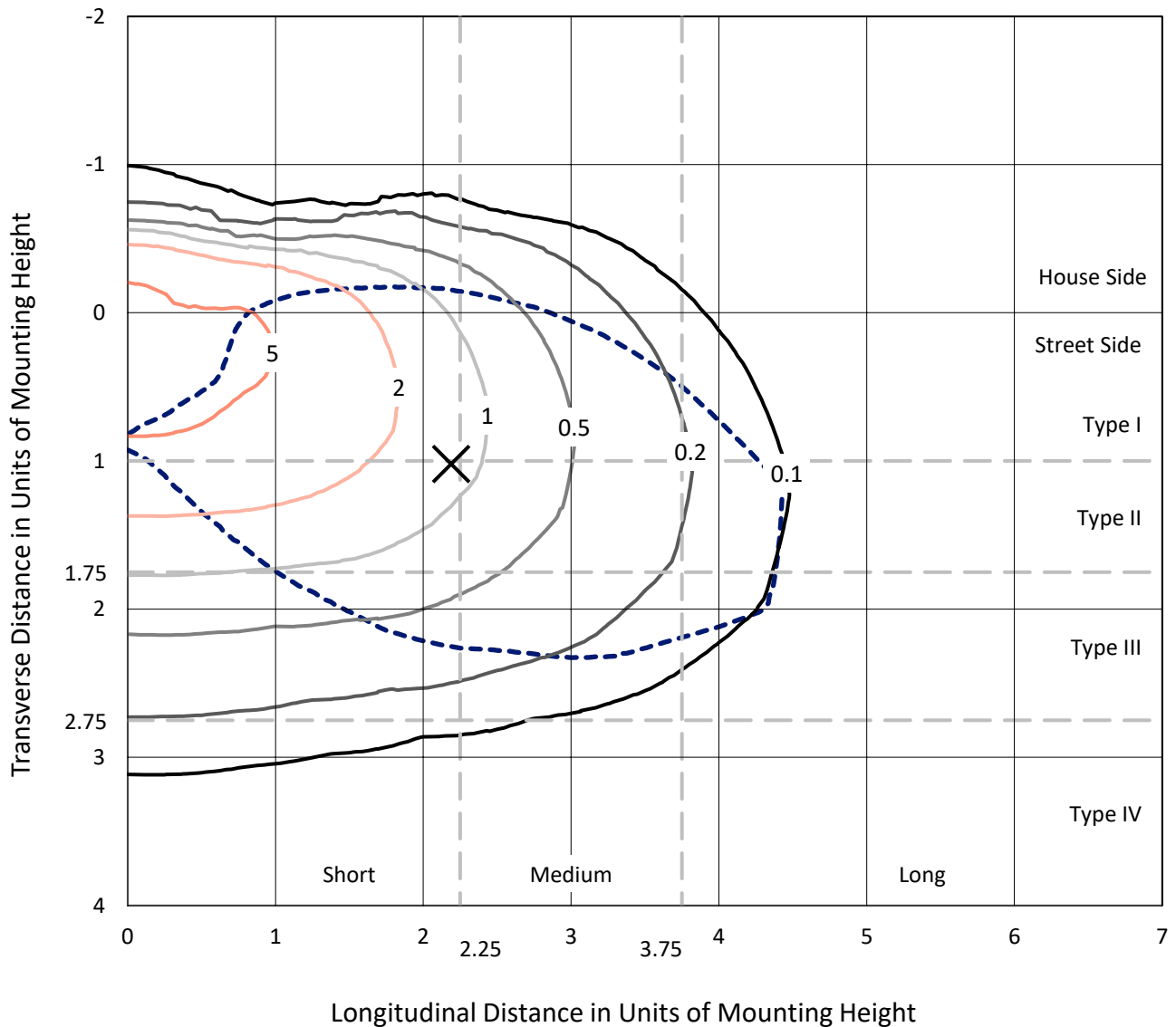




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 CATALOG NUMBER: CTN-CA6-230-760-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

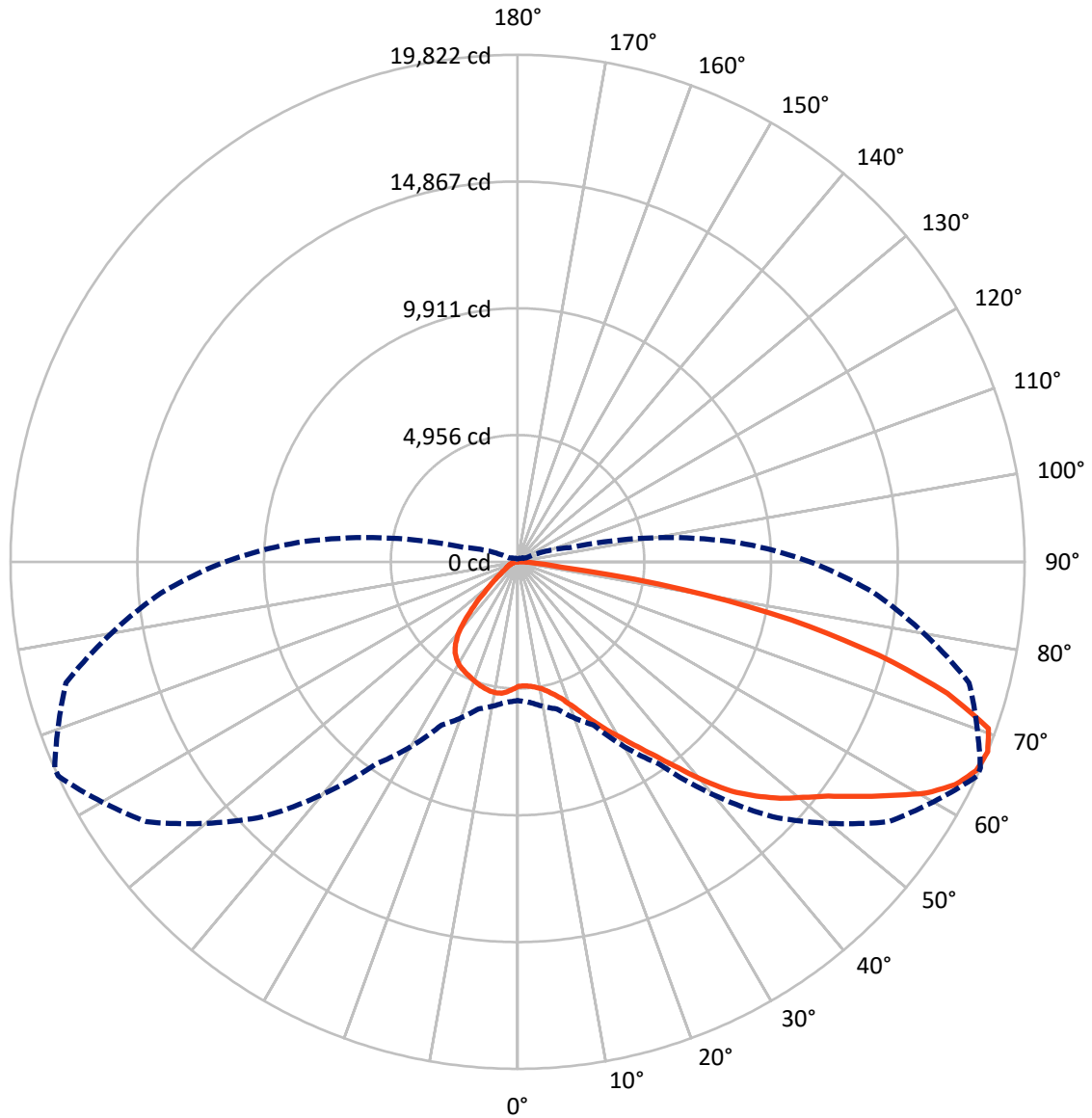
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P510688  
CATALOG NUMBER: CTN-CA6-230-760-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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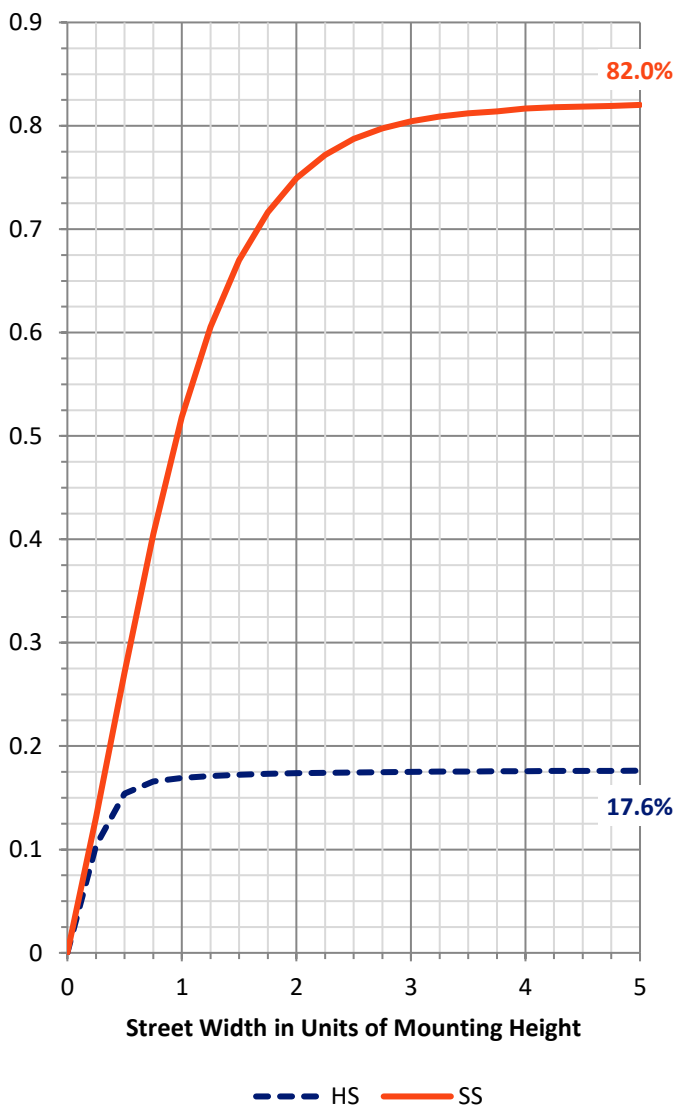
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5724.4	0.0	5724.4
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	26304.6	0.0	26304.6
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	32029.0	0.0	32029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.5	1.5
10°-20°	1486.6	4.6
20°-30°	2578.9	8.1
30°-40°	3890.3	12.1
40°-50°	5394.2	16.8
50°-60°	6658.4	20.8
60°-70°	7094.4	22.1
70°-80°	4059.5	12.7
80°-90°	385.2	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°	32029.0	100.0
0°-180°	32029.0	100.0

**Coefficient of Utilization**

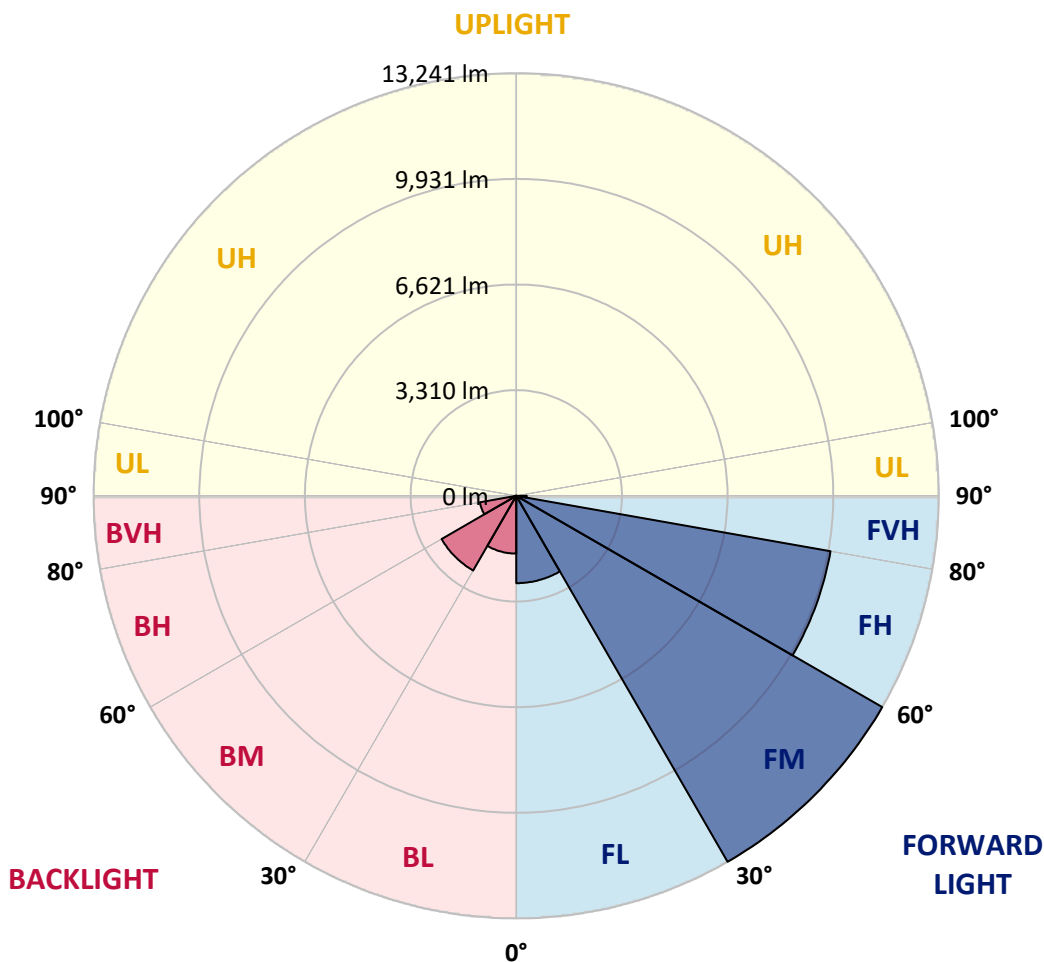


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.7	8.5			
FM (30°-60°)	13241.2	41.3			
FH (60°-80°)	9998.6	31.2			G4/12000
FVH (80°-90°)	329.1	1.0			G3/500
BL (0°-30°)	1811.3	5.7	B3/2500		
BM (30°-60°)	2701.6	8.4	B3/5000		
BH (60°-80°)	1155.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	56.1	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0
2.5°	4820.0	4813.7	4808.1	4817.9	4823.5	4832.6	4846.0	4855.1	4857.9	4866.3	4876.8
5°	4897.2	4896.5	4888.8	4884.6	4872.6	4868.4	4871.2	4882.5	4883.2	4893.7	4926.7
7.5°	5048.7	5047.3	5028.4	5020.0	4994.7	4966.6	4945.6	4947.7	4947.0	4957.5	5001.7
10°	5277.5	5266.2	5239.6	5213.6	5164.5	5111.9	5073.3	5038.2	5038.2	5053.6	5102.8
12.5°	5535.6	5551.1	5514.6	5475.3	5393.2	5298.5	5231.1	5191.9	5187.6	5195.4	5230.4
15°	5856.3	5856.3	5831.7	5775.6	5703.3	5571.4	5432.5	5382.7	5375.7	5391.8	5389.7
17.5°	6217.6	6228.1	6181.8	6153.8	6042.9	5897.0	5723.0	5636.7	5636.7	5626.1	5577.7
20°	6678.6	6621.0	6625.9	6579.6	6498.2	6286.4	6109.6	5984.0	5982.6	5961.5	5825.4
22.5°	7179.5	7147.9	7120.6	7079.9	6967.6	6778.2	6532.6	6408.4	6405.6	6353.7	6151.6
25°	7673.4	7697.3	7667.1	7592.7	7510.7	7304.4	7033.6	6911.5	6910.8	6824.5	6538.2
27.5°	8181.4	8207.3	8197.5	8130.2	8020.7	7859.3	7603.3	7444.0	7434.2	7378.1	7018.1
30°	8742.7	8719.5	8749.7	8720.9	8666.2	8403.1	8171.6	7986.3	8010.2	7993.4	7563.3
32.5°	9151.0	9165.7	9264.7	9267.5	9209.9	9014.9	8732.1	8618.5	8656.4	8633.9	8233.3
35°	9520.0	9543.9	9671.6	9797.2	9839.3	9626.0	9338.3	9331.3	9380.4	9517.2	9156.6
37.5°	9837.2	9854.0	10032.9	10196.4	10332.5	10186.6	9977.5	10226.6	10298.8	10578.8	10109.4
40°	10027.3	10049.1	10280.6	10510.7	10753.5	10701.5	10681.9	11271.2	11339.3	11585.6	10804.7
42.5°	9920.0	9962.8	10348.6	10769.6	11126.7	11230.5	11499.3	12257.0	12334.9	12355.9	11488.0
45°	9728.4	9781.7	10213.2	10894.5	11476.8	11810.1	12321.5	13060.3	13103.1	13043.5	12054.2
47.5°	9522.1	9579.0	10061.0	10857.3	11758.2	12484.3	13056.1	13816.7	13846.8	13663.7	12624.6
50°	9287.8	9340.4	9858.9	10770.3	11970.0	13120.7	13811.0	14470.5	14583.5	14221.5	13068.0
52.5°	9003.0	9059.1	9609.1	10634.2	12156.0	13592.8	14476.9	15209.3	15217.1	14918.9	13567.6
55°	8633.9	8731.4	9295.5	10398.4	12253.5	13998.4	15057.1	16186.7	16236.5	15948.1	13985.7
57.5°	8223.5	8308.4	8918.1	10084.1	12165.8	14306.4	15990.2	17234.9	17228.5	16649.7	14351.3
60°	7681.1	7741.5	8426.2	9673.0	11883.0	14678.9	16961.9	18358.1	18346.9	17337.3	14586.3
62.5°	6985.2	7045.5	7689.6	9028.2	11467.7	14928.7	17621.4	19199.3	19167.1	17837.5	14658.6
65°	6178.3	6286.4	6845.5	8191.2	10733.1	14764.5	17940.0	19694.7	19642.8	18219.2	14486.0
67.5°	5422.0	5513.9	5956.6	7039.2	9649.1	14098.7	17715.5	19822.4	19806.9	18274.6	13998.4
70°	4351.3	4385.0	4790.5	5717.4	8028.4	12673.0	16939.5	19527.7	19534.7	17763.9	13018.9
72.5°	2978.3	3060.4	3240.7	3972.5	5842.2	10078.5	14600.3	17574.4	17575.8	15928.5	11342.8
75°	1601.8	1728.7	1939.2	2302.0	3266.0	6467.4	11725.2	14582.8	14610.2	13280.6	9015.6
77.5°	794.2	839.8	961.9	1231.3	1497.2	3051.3	7540.8	10946.4	11011.6	10194.3	6148.8
80°	363.4	371.1	380.3	378.2	573.2	1338.7	3237.2	6574.0	6593.7	6063.2	2807.1
82.5°	284.1	282.7	287.0	261.0	262.4	516.4	1120.5	1721.7	1836.1	1445.3	890.3
85°	171.9	171.2	184.5	143.1	176.1	279.2	565.5	686.9	695.3	565.5	461.0
87.5°	65.2	63.1	58.2	51.2	58.9	78.6	195.7	252.6	247.0	175.4	159.3
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°	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0
2.5°	4886.0	4908.4	4949.8	4981.4	4991.9	5025.6	5057.9	5063.5	5086.6	5095.7	5125.9
5°	4947.0	4984.9	5049.4	5092.2	5111.2	5167.3	5203.8	5222.0	5215.7	5219.2	5252.9
7.5°	5036.1	5071.9	5123.8	5175.7	5184.8	5194.7	5191.2	5188.3	5163.8	5142.7	5174.3
10°	5117.5	5151.2	5183.4	5191.2	5144.9	5118.9	5072.6	5036.8	4989.1	4967.3	4992.6
12.5°	5231.8	5238.9	5207.3	5165.2	5065.6	4973.0	4897.9	4832.6	4773.7	4733.0	4766.7
15°	5352.5	5325.2	5233.3	5110.5	4956.1	4823.5	4700.7	4592.0	4494.5	4470.6	4479.7
17.5°	5512.5	5438.1	5252.9	5046.6	4806.7	4600.4	4442.5	4305.0	4177.3	4124.0	4119.1
20°	5707.5	5587.6	5292.9	4965.9	4629.9	4355.5	4111.4	3905.8	3729.7	3585.2	3588.7
22.5°	5961.5	5787.5	5353.2	4881.7	4434.1	4068.6	3713.6	3364.2	3074.4	2949.5	2918.7
25°	6296.9	6037.3	5438.8	4805.3	4215.2	3703.8	3202.1	2708.9	2402.3	2280.9	2267.6
27.5°	6714.3	6372.7	5569.3	4720.4	3980.9	3270.9	2549.6	2066.2	1784.9	1657.2	1614.4
30°	7188.6	6785.9	5703.3	4632.0	3697.4	2714.5	1944.1	1470.6	1182.2	1067.8	1053.1
32.5°	7802.5	7309.3	5902.6	4493.1	3283.5	2133.6	1356.2	917.7	721.9	672.8	658.8
35°	8674.6	8017.2	6148.8	4317.7	2751.7	1490.2	840.5	537.4	432.9	408.3	403.4
37.5°	9487.8	8711.8	6397.2	4026.5	2089.4	930.3	480.6	344.5	321.3	322.0	323.4
40°	10132.5	9186.8	6597.9	3643.4	1374.4	528.3	334.0	286.3	287.0	284.9	283.4
42.5°	10706.5	9565.6	6688.4	3077.2	796.3	353.6	289.8	263.8	257.5	259.6	258.2
45°	11181.4	9952.2	6513.0	2440.9	469.4	317.1	273.6	244.9	237.8	249.1	250.5
47.5°	11681.0	10319.2	6244.3	1838.9	381.0	301.7	258.9	230.8	227.3	241.4	242.8
50°	12101.2	10585.1	5786.1	1385.7	363.4	284.9	245.6	216.8	216.1	228.7	228.7
52.5°	12452.7	10745.7	5242.4	1069.9	351.5	270.1	232.2	203.5	203.5	207.7	208.4
55°	12700.4	10713.5	4918.2	841.9	338.9	256.1	218.2	190.8	182.4	179.6	181.0
57.5°	12745.3	10627.9	4542.2	656.7	324.1	242.8	205.6	176.1	160.7	158.6	157.9
60°	12716.5	10439.8	4112.8	548.7	307.3	230.1	192.9	160.7	145.2	140.3	141.7
62.5°	12596.6	10106.6	3616.8	481.3	290.5	220.3	178.9	150.1	136.1	129.8	129.8
65°	12234.5	9629.5	2880.1	421.7	269.4	209.8	167.7	145.9	130.5	123.5	122.1
67.5°	11438.9	8639.5	2164.4	369.7	249.1	198.6	166.3	145.2	127.7	117.9	116.5
70°	10371.8	7421.5	1477.6	324.8	226.6	188.0	165.6	145.9	124.9	112.3	110.9
72.5°	8658.5	5850.7	851.0	282.7	204.2	178.2	162.8	146.6	120.0	104.5	102.4
75°	6506.0	4103.7	499.5	242.8	182.4	163.5	155.1	142.4	112.3	95.4	93.3
77.5°	3912.8	1916.1	376.1	201.4	156.5	143.8	138.2	130.5	102.4	88.4	86.3
80°	1435.5	727.6	295.4	161.4	124.2	124.9	119.3	114.4	93.3	81.4	80.0
82.5°	625.8	444.8	218.2	122.8	97.5	111.6	98.2	94.0	80.0	73.0	70.2
85°	379.6	265.2	140.3	83.5	67.4	75.8	68.8	72.3	61.7	57.5	55.4
87.5°	125.6	79.3	62.4	40.7	33.7	31.6	30.9	37.2	35.1	32.3	32.3
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)