

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: P591323

Luminaire Tested: **CTN-CA10-760-730-U-T1-SSS-HM-EX120**

Issue Date: 1/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P591323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-730-U-T1-SSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60856 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

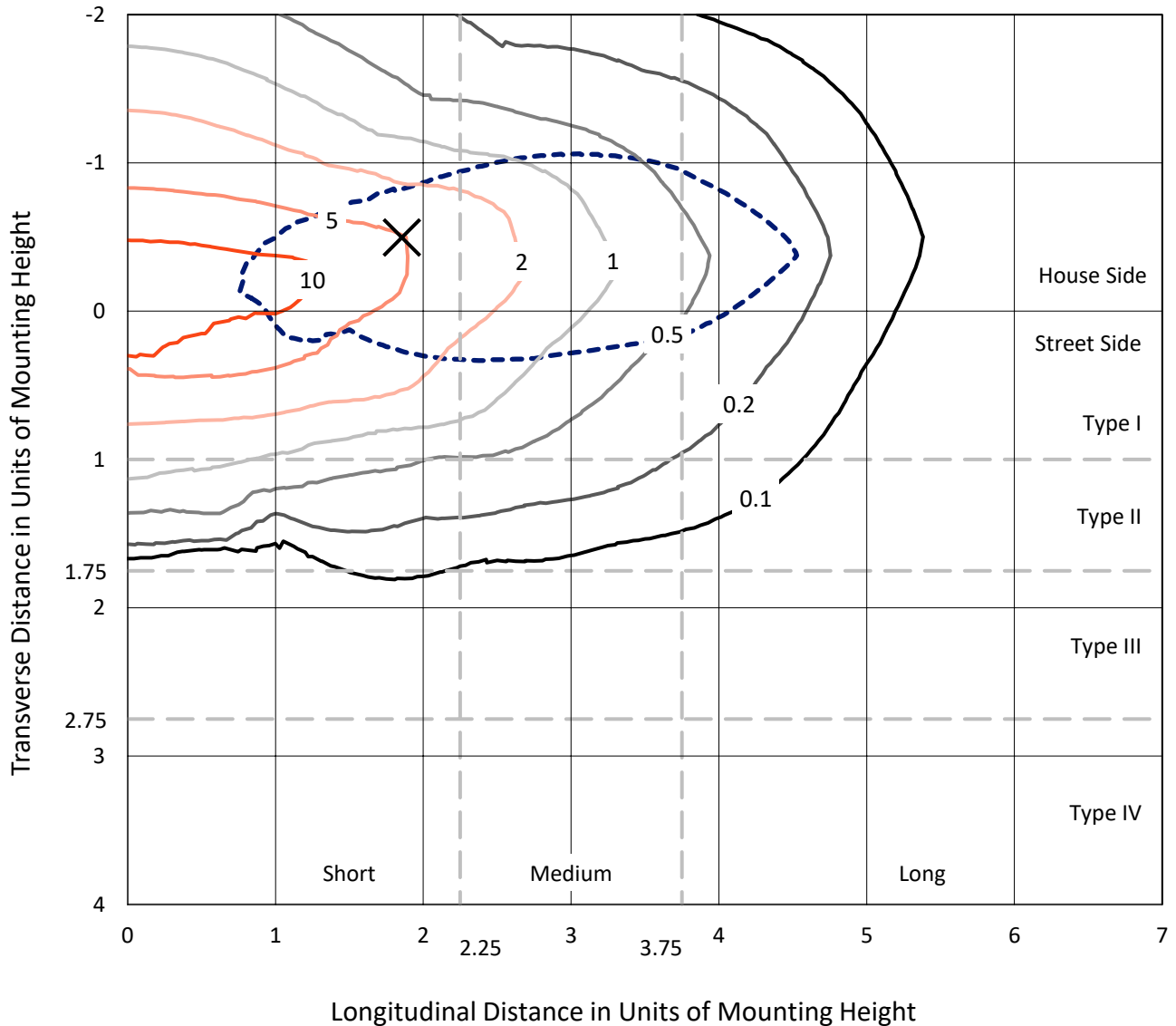
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

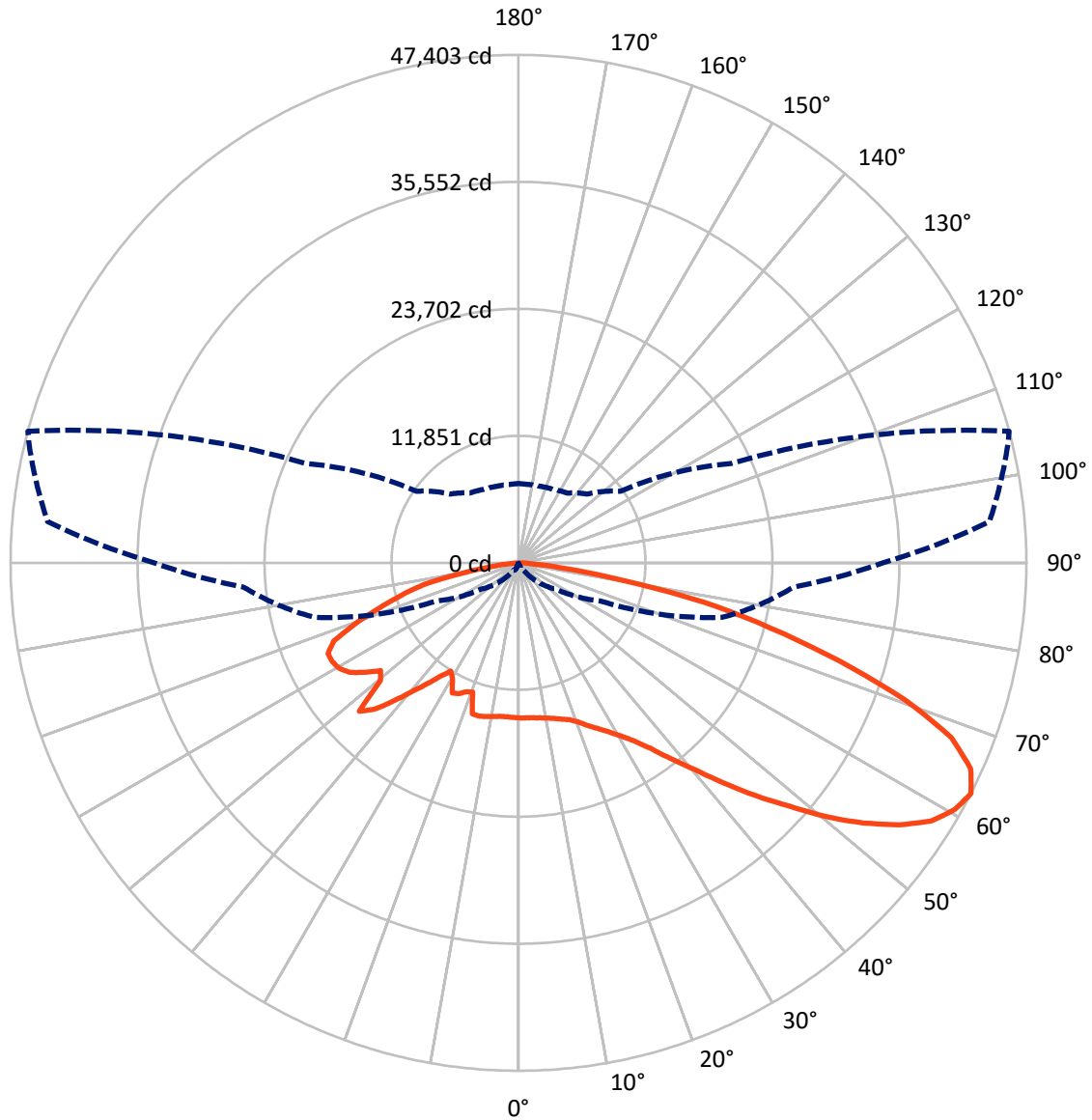
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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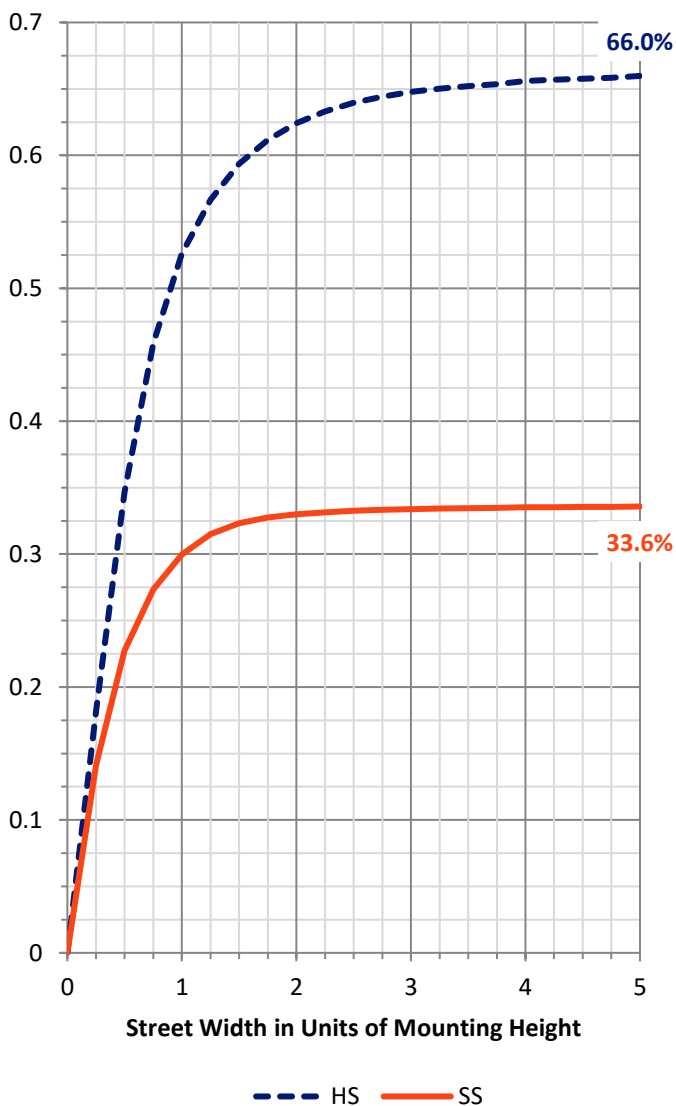
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	40492.9	0.0	40492.9
	% Fixture	66.5	0.0	66.5
<b>Street Side</b>	Lumens	20363.1	0.0	20363.1
	% Fixture	33.5	0.0	33.5
<b>Total</b>	Lumens	60856.0	0.0	60856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1381.4	2.3
10°-20°	3901.5	6.4
20°-30°	5498.5	9.0
30°-40°	7470.6	12.3
40°-50°	10162.8	16.7
50°-60°	12039.8	19.8
60°-70°	11806.4	19.4
70°-80°	7446.4	12.2
80°-90°	1148.7	1.9
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°	60856.0	100.0
0°-180°	60856.0	100.0

**Coefficient of Utilization**

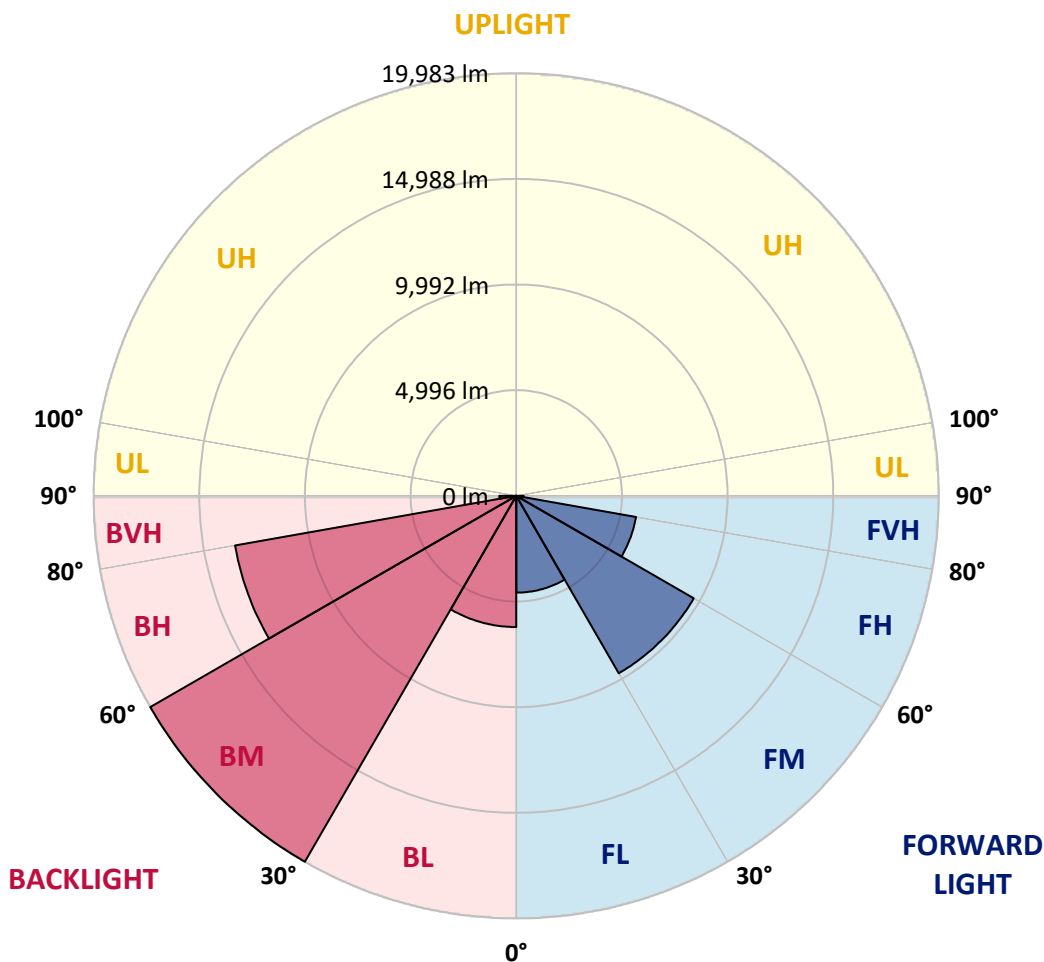


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4577.4	7.5			
FM	(30°-60°)	9689.8	15.9			
FH	(60°-80°)	5749.5	9.4			G3/7500
FVH	(80°-90°)	346.5	0.6			G3/500
BL	(0°-30°)	6204.0	10.2	B5		
BM	(30°-60°)	19983.4	32.8	B5		
BH	(60°-80°)	13503.3	22.2	B5		G5
BVH	(80°-90°)	802.2	1.3			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7
2.5°	14486.4	14373.2	14454.0	14576.9	14392.6	14499.3	14321.5	14467.0	14431.4	14441.1	14509.0
5°	14373.2	14253.6	14350.6	14512.2	14331.2	14450.8	14305.3	14428.2	14415.2	14460.5	14515.5
7.5°	14266.5	14153.4	14253.6	14360.3	14266.5	14382.9	14273.0	14424.9	14434.6	14534.9	14580.1
10°	14153.4	14040.2	14137.2	14260.1	14182.5	14328.0	14282.7	14467.0	14538.1	14670.6	14709.4
12.5°	13904.5	13804.2	13885.1	14027.3	14040.2	14253.6	14282.7	14567.2	14654.5	14829.0	14887.2
15°	12407.6	12517.6	12947.5	13361.3	13539.1	13933.5	14150.1	14657.7	14780.6	15029.5	15120.0
17.5°	10038.0	9831.1	9161.9	9336.4	10319.2	11644.7	12145.8	13406.6	14738.5	15281.6	15398.0
20°	5932.3	6355.8	7665.1	8065.9	8428.0	9853.7	11538.0	12288.0	12798.8	14728.8	15779.5
22.5°	4891.3	4920.4	5857.9	7707.1	8114.4	8673.7	9976.6	12446.4	12973.4	13358.1	14528.4
25°	4535.7	4564.8	4726.4	6155.3	7891.4	8537.9	9110.1	11376.4	13422.8	13898.0	14812.9
27.5°	4251.2	4290.0	4438.7	4839.6	7357.9	8499.1	9223.3	10089.7	13623.2	14538.1	15394.8
30°	4037.8	4054.0	4205.9	4593.9	5563.7	8508.8	9388.2	10312.8	12478.8	15349.5	16209.5
32.5°	3843.8	3853.5	4012.0	4390.2	4975.3	7881.7	9637.1	10778.3	11916.3	16015.5	17328.0
35°	3695.1	3688.7	3830.9	4202.7	4784.6	6035.7	9915.1	11337.6	12815.0	15385.1	18996.2
37.5°	3552.9	3543.2	3666.0	4008.7	4616.5	5651.0	9591.8	12010.0	14104.9	15863.6	18860.4
40°	3443.0	3423.6	3527.0	3834.2	4441.9	5554.0	7555.2	12721.2	15520.9	18330.2	20001.6
42.5°	3346.0	3333.1	3420.3	3666.0	4264.1	5437.6	7041.1	13105.9	17282.8	21181.6	22953.2
45°	3200.5	3219.9	3316.9	3552.9	4073.4	5272.8	7092.9	10526.1	19148.1	23654.7	25895.1
47.5°	3139.1	3135.9	3197.3	3420.3	3908.5	5043.2	7057.3	9653.3	20321.6	26244.2	28775.5
50°	3042.1	3025.9	2638.0	3265.2	3740.4	4758.7	6908.6	9905.4	16911.0	28785.2	31420.0
52.5°	2861.1	2544.2	2308.2	3155.3	3569.1	4448.4	6575.6	10015.3	16329.1	28332.6	33692.7
55°	1519.4	1694.0	2185.4	3000.1	3368.6	4170.4	6087.4	9937.8	17586.7	22655.8	31277.7
57.5°	1348.1	1341.6	1390.1	2369.7	1755.4	3866.5	5499.1	9582.1	18776.3	23690.3	31862.9
60°	106.7	109.9	129.3	788.8	931.1	2722.1	4865.4	9142.5	19406.8	24912.3	33282.1
62.5°	51.7	58.2	77.6	704.8	850.2	2476.4	4293.2	8392.5	19671.8	25794.8	33983.6
65°	12.9	16.2	35.6	620.7	740.3	2204.8	3717.8	7513.1	19694.5	25830.4	34549.4
67.5°	9.7	16.2	35.6	562.5	675.7	1965.6	3213.4	6898.9	18731.1	25697.9	34264.9
70°	9.7	16.2	35.6	504.3	611.0	1703.7	2767.3	6297.6	16270.9	25203.2	33298.3
72.5°	9.7	19.4	35.6	442.9	536.7	1445.1	2350.3	5634.8	13655.5	23137.5	31145.2
75°	9.7	19.4	38.8	358.8	459.1	1150.9	1930.0	4826.6	11357.0	20063.0	27576.1
77.5°	9.7	19.4	38.8	278.0	371.8	859.9	1461.2	3824.5	9061.7	14796.7	19374.4
80°	9.7	19.4	38.8	197.2	303.9	604.5	1063.6	2608.9	5405.3	7778.2	9866.6
82.5°	9.7	19.4	38.8	142.2	219.8	436.4	656.3	1286.7	2579.8	3733.9	4684.4
85°	6.5	16.2	35.6	93.8	116.4	265.1	391.2	572.2	772.6	1021.6	1380.4
87.5°	6.5	9.7	22.6	35.6	48.5	93.8	145.5	129.3	145.5	303.9	436.4
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):**

	95°	104°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7	14476.7
2.5°	14499.3	14486.4	14489.6	14560.7	14499.3	14512.2	14405.5	14618.9	14599.5	14570.4	14654.5
5°	14515.5	14509.0	14534.9	14596.3	14502.5	14518.7	14418.5	14667.4	14606.0	14596.3	14696.5
7.5°	14596.3	14586.6	14612.4	14641.5	14538.1	14538.1	14450.8	14648.0	14612.4	14547.8	14660.9
10°	14741.8	14706.2	14732.1	14748.2	14589.8	14583.4	14421.7	14654.5	14564.0	14531.6	14677.1
12.5°	14945.4	14864.6	14903.4	14877.5	14667.4	14628.6	14412.0	14564.0	14450.8	14431.4	14564.0
15°	15220.2	15113.5	15142.6	15094.1	14829.0	14715.9	14366.8	14431.4	14250.4	14234.2	14331.2
17.5°	15475.6	15411.0	15394.8	15394.8	15084.4	14803.2	14324.7	14234.2	13995.0	13978.8	14027.3
20°	15937.9	15850.6	15840.9	15763.3	15304.3	14874.3	14256.8	13978.8	13623.2	13542.4	13632.9
22.5°	16086.6	16510.1	16481.0	16138.3	15488.5	14932.5	14117.8	13658.8	13170.6	13015.4	13060.7
25°	16529.5	17166.4	17114.7	16616.8	15676.1	14964.8	13949.7	13306.4	12633.9	12362.4	12372.1
27.5°	17231.0	17880.8	17845.3	17127.6	15908.8	14974.5	13762.2	12934.6	12100.5	11744.9	11774.0
30°	18123.3	18779.6	18727.9	17696.6	16261.2	14993.9	13620.0	12488.5	11612.4	11227.7	11221.2
32.5°	19364.7	19959.6	19807.6	18456.3	16684.7	15074.7	13432.5	12065.0	11166.2	10762.1	10729.8
35°	21239.8	21459.6	21272.1	19361.5	17134.1	15126.5	13131.8	11651.2	10752.4	10354.8	10325.7
37.5°	23774.3	23502.8	23250.6	20379.8	17599.6	15113.5	12750.3	11250.3	10396.8	10018.6	10018.6
40°	24023.2	25849.8	25384.3	21453.1	18019.9	15042.4	12388.3	10859.1	10109.1	9802.0	9850.5
42.5°	25190.3	28723.8	28070.8	22490.9	18323.7	14835.5	12000.3	10503.5	9840.8	9591.8	9611.2
45°	28057.8	31339.2	30957.7	23493.1	18488.6	14470.2	11550.9	10154.4	9540.1	9342.9	9381.7
47.5°	31142.0	34449.2	33889.9	24417.7	18398.1	13930.3	11072.5	9834.3	9226.5	9100.5	9171.6
50°	34058.0	37720.8	37255.3	25067.5	17997.2	13173.8	10561.7	9494.9	8980.8	8880.6	8916.2
52.5°	36919.1	40691.8	40342.6	25419.8	17195.5	12381.8	10089.7	9171.6	8751.3	8625.2	8673.7
55°	39279.0	43507.6	43168.1	25384.3	15989.6	11554.2	9620.9	8822.4	8518.5	8405.4	8444.2
57.5°	41121.8	45699.5	45457.0	24844.4	14586.6	10794.5	9090.8	8479.7	8211.4	8111.2	8143.5
60°	42770.5	47089.6	46776.0	23651.5	13099.5	9957.2	8544.4	8072.4	7849.3	7768.5	7820.2
62.5°	44121.8	47118.7	47403.2	21925.1	11641.5	9071.4	7936.6	7571.3	7409.7	7361.2	7393.5
65°	44467.7	46252.3	46391.3	19791.5	10164.1	8192.0	7206.0	6966.8	6898.9	6869.8	6934.4
67.5°	43989.3	44425.7	43598.1	17987.5	8816.0	7196.3	6417.2	6268.5	6310.5	6317.0	6401.0
70°	42754.3	39537.7	38260.7	16477.8	7558.4	6093.9	5550.8	5502.3	5615.4	5709.2	5770.6
72.5°	39605.5	32461.0	31245.4	14344.1	5958.1	4665.0	4370.8	4526.0	4487.2	4529.2	4639.1
75°	34096.8	25054.5	24301.3	11673.8	4538.9	3391.3	2996.8	3013.0	3061.5	3274.9	3391.3
77.5°	24288.3	18019.9	17683.6	8955.0	3006.5	1994.7	2062.6	2292.1	2360.0	2366.4	2447.3
80°	12869.9	10044.4	9588.6	5276.0	1988.2	1425.7	1551.8	1652.0	1742.5	1836.3	1858.9
82.5°	5799.7	4542.1	4416.1	2621.8	1260.8	1099.2	1128.3	1299.6	1374.0	1390.1	1406.3
85°	2253.3	1567.9	1493.6	1089.5	827.6	743.6	824.4	998.9	1070.1	1037.7	1028.0
87.5°	601.3	368.5	336.2	365.3	387.9	410.6	468.8	533.4	611.0	588.4	569.0
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)