

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: P591428

Luminaire Tested: **CTN-CA10-760-740-U-T4-SSS-HM-EX120**

Issue Date: 1/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P591428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-740-U-T4-SSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57810 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

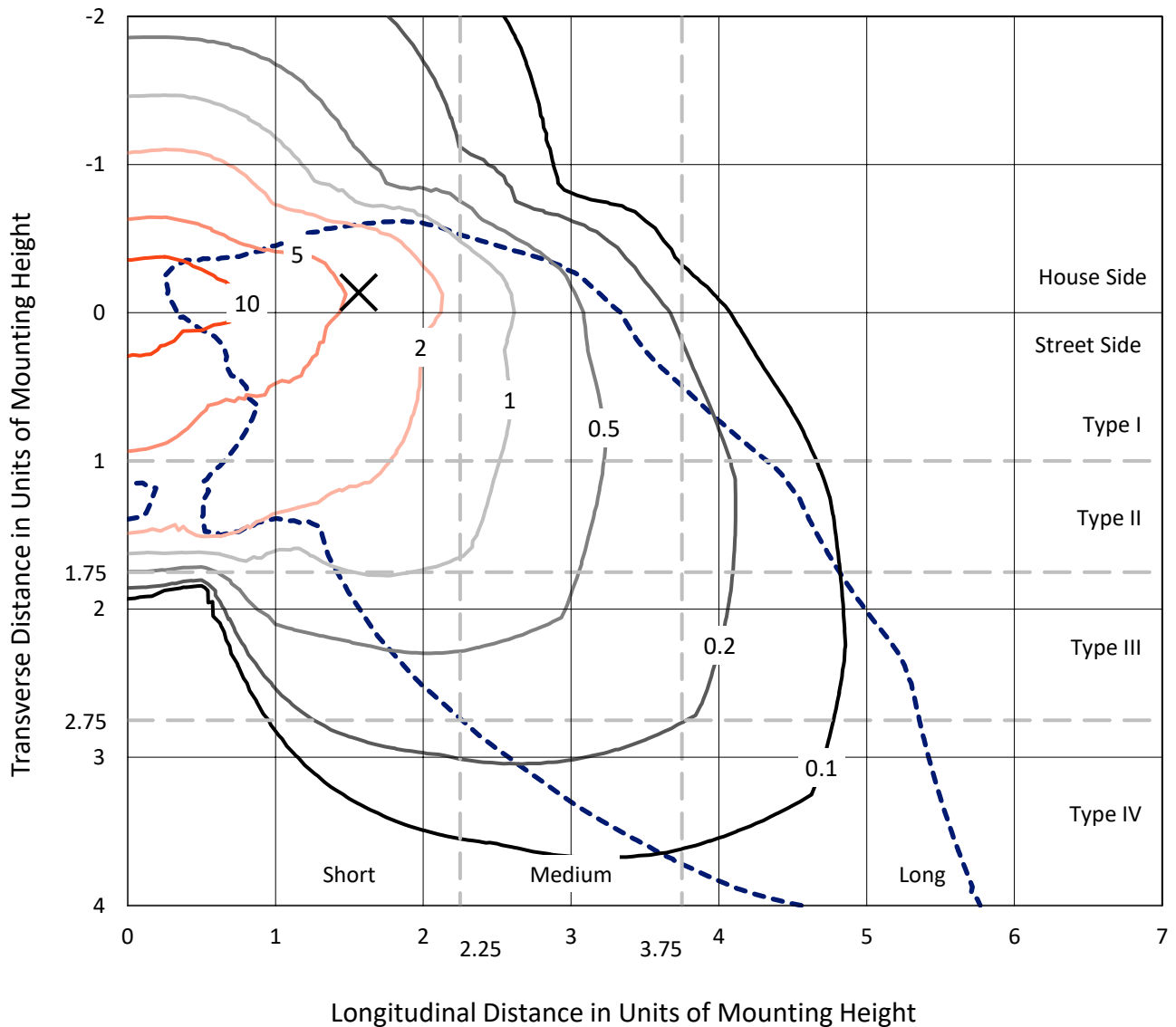
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

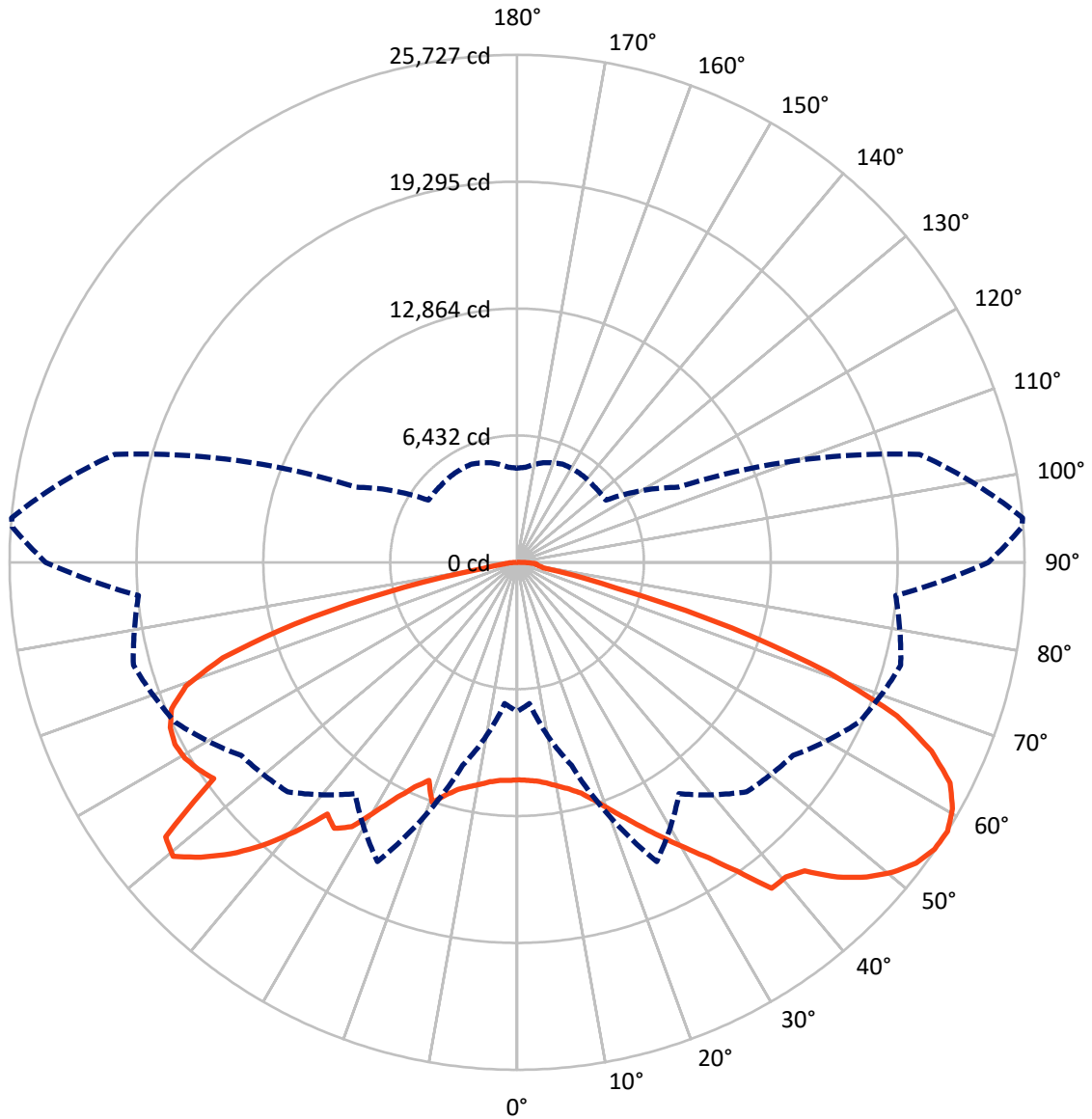
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 95-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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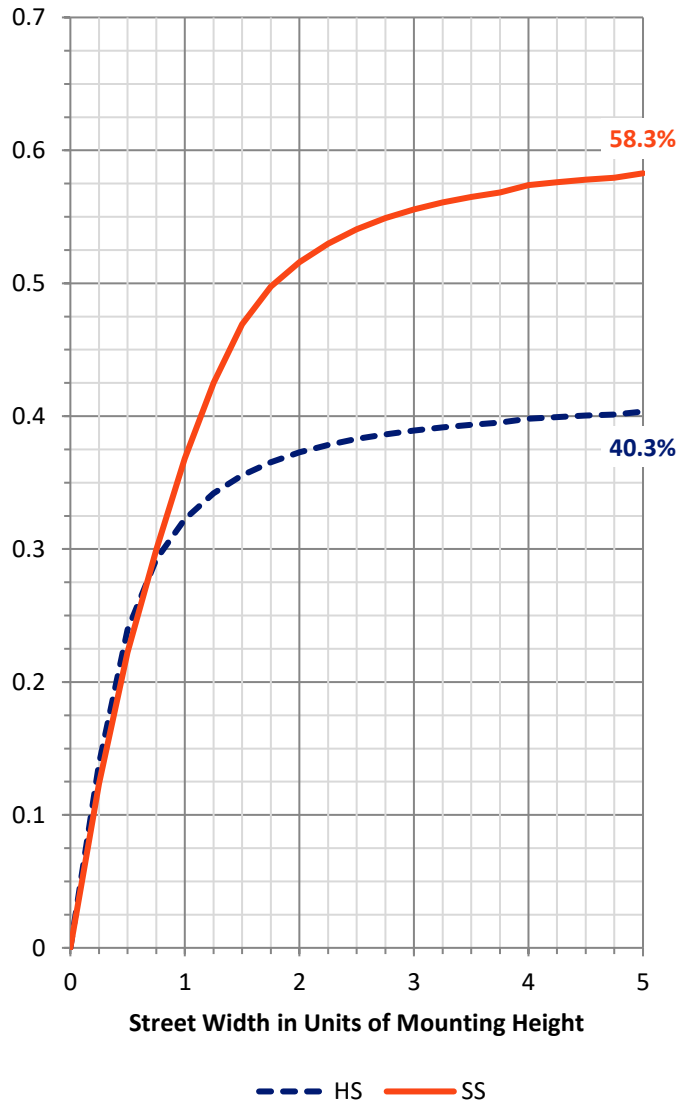
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23810.1	0.0	23810.1
	% Fixture	41.2	0.0	41.2
<b>Street Side</b>	Lumens	33999.9	0.0	33999.9
	% Fixture	58.8	0.0	58.8
<b>Total</b>	Lumens	57810.0	0.0	57810.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1077.1	1.9
10°-20°	3293.7	5.7
20°-30°	5204.7	9.0
30°-40°	7192.0	12.4
40°-50°	9697.2	16.8
50°-60°	11423.1	19.8
60°-70°	10205.0	17.7
70°-80°	7619.8	13.2
80°-90°	2097.4	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°	57810.0	100.0
0°-180°	57810.0	100.0

**Coefficient of Utilization**

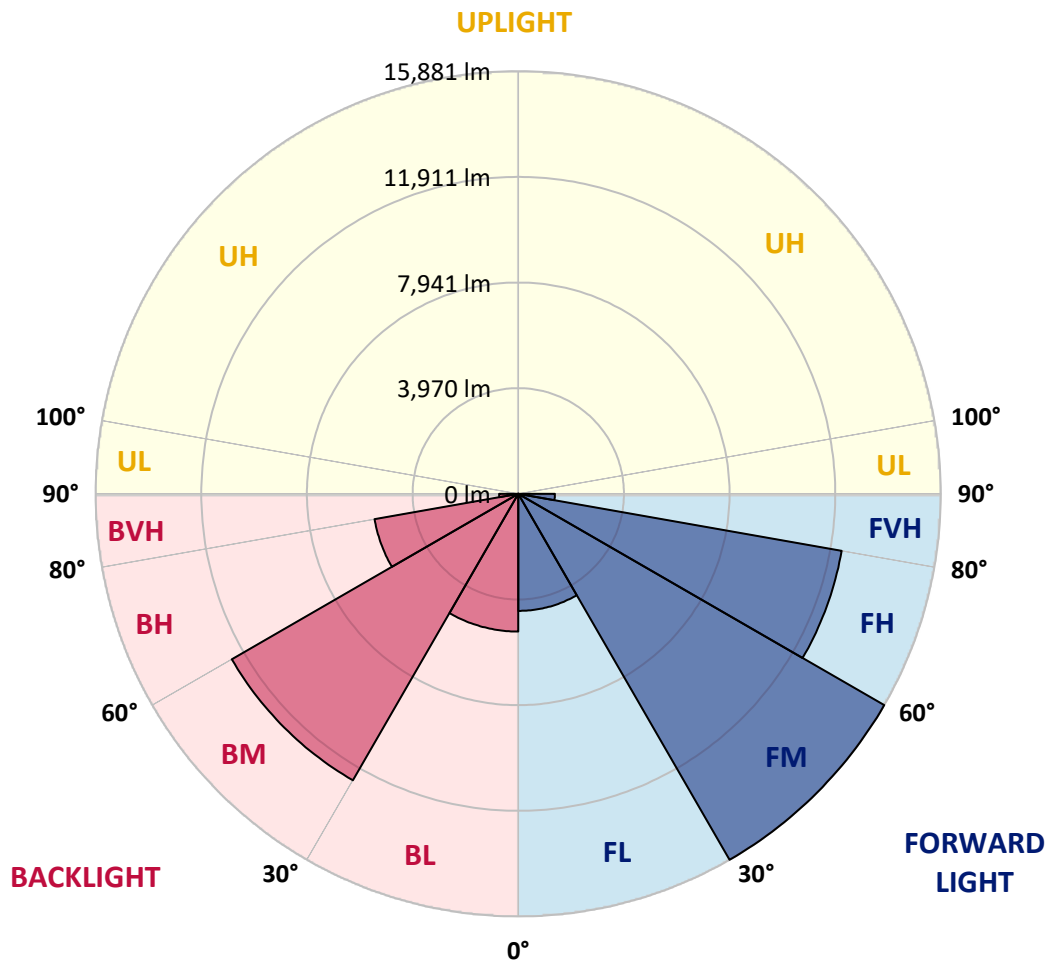


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4400.1	7.6			
FM (30°-60°)	15881.5	27.5			
FH (60°-80°)	12340.6	21.3			G5
FVH (80°-90°)	1377.7	2.4			G5
BL (0°-30°)	5175.4	9.0	B5		
BM (30°-60°)	12430.8	21.5	B5		
BH (60°-80°)	5484.2	9.5	B5		G5
BVH (80°-90°)	719.7	1.2			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°	75°	85°	90°
0°	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7
2.5°	10884.8	10815.7	10819.0	10914.5	10772.9	10875.0	10861.8	11019.8	10996.8	11059.3	11079.1
5°	10795.9	10736.7	10740.0	10861.8	10766.3	10858.5	10795.9	10940.8	10993.5	11089.0	11108.7
7.5°	10819.0	10766.3	10786.1	10901.3	10782.8	10875.0	10881.5	11016.5	11042.9	11207.5	11233.8
10°	10878.2	10822.3	10835.4	10927.6	10851.9	11016.5	10996.8	11174.6	11181.2	11411.6	11444.5
12.5°	10799.2	10759.7	10759.7	10875.0	10914.5	11079.1	11128.5	11312.9	11352.4	11619.0	11661.9
15°	10657.7	10591.8	10687.3	10858.5	10937.5	11187.7	11279.9	11556.5	11602.6	11879.2	11971.3
17.5°	10414.0	10377.8	10730.1	10782.8	10483.2	10674.1	11065.9	11839.6	11997.7	12323.6	12494.8
20°	9686.4	9278.1	8336.5	8507.7	9429.6	10117.7	10239.5	10611.6	11289.8	12913.0	13179.7
22.5°	7121.6	7473.9	8718.4	8820.5	8790.8	9360.4	10641.2	11000.1	11322.7	11918.7	13690.0
25°	7375.1	7355.3	7964.4	9258.4	9212.3	9320.9	9857.6	11602.6	11925.2	12517.9	14361.7
27.5°	7602.3	7618.7	7572.6	8790.8	9653.5	9765.4	9930.0	11121.9	12682.5	13360.8	15095.9
30°	8053.3	7984.2	7859.1	7855.8	10038.7	10203.3	10483.2	10881.5	13380.5	14457.1	16014.5
32.5°	8813.9	8734.9	8570.2	8310.1	8675.6	10657.7	11042.9	11549.9	12346.7	15803.8	17091.1
35°	9376.9	9320.9	9209.0	9027.9	8734.9	10884.8	11589.4	12261.1	13314.7	16363.5	18503.6
37.5°	10071.6	9992.6	9864.2	9640.3	9419.7	9330.8	12116.2	13067.7	14664.6	15984.8	18809.8
40°	10858.5	10812.4	10578.6	10288.9	10045.3	9798.3	12478.4	14121.3	16399.7	17683.7	18529.9
42.5°	11451.1	11414.9	11276.6	11042.9	10805.8	10647.8	11059.3	15415.2	18289.5	19326.7	19948.9
45°	11968.0	11928.5	11928.5	11866.0	11800.1	11813.3	11991.1	16343.7	20083.9	20729.3	21292.3
47.5°	12366.4	12297.3	12020.7	12076.7	12172.2	12458.6	12998.6	14210.2	21529.3	21921.1	22421.6
50°	13337.7	13232.3	12336.8	12544.2	12853.7	13314.7	14009.4	15533.8	20103.7	22938.5	23330.3
52.5°	14233.3	13746.0	10190.1	13232.3	13581.3	14262.9	15086.0	16966.0	18503.6	22609.2	24025.0
55°	12699.0	12201.8	10242.8	14496.6	14437.4	15296.7	16100.1	18141.4	19372.8	18885.5	23850.5
57.5°	7559.5	7184.1	10657.7	16742.1	14312.3	16452.4	17071.3	19145.6	20136.6	19264.1	23896.6
60°	3914.7	4115.6	3957.5	9907.0	12323.6	16959.4	18075.5	20113.6	20653.5	19547.3	23926.2
62.5°	526.8	378.6	158.0	7246.7	8757.9	14131.2	19336.5	21035.5	21032.2	19642.7	23718.8
65°	32.9	36.2	72.4	7210.5	9660.0	16765.1	21424.0	21779.5	21219.8	19474.8	23027.4
67.5°	13.2	16.5	65.8	7161.1	10423.9	17624.5	23880.1	22016.6	21239.6	19023.8	21509.6
70°	13.2	16.5	65.8	6670.5	10944.1	17775.9	24295.0	21927.7	20995.9	17914.2	18687.9
72.5°	16.5	19.8	59.3	5794.7	10628.0	17364.4	23616.7	21746.6	20123.4	15681.9	14509.8
75°	16.5	19.8	59.3	4681.9	9403.2	16465.5	23080.1	20232.1	17640.9	11717.8	9409.8
77.5°	13.2	16.5	59.3	3654.6	7839.3	14592.1	20936.7	17591.6	13950.1	6818.7	3717.2
80°	13.2	16.5	59.3	2545.1	5972.5	11961.5	17054.9	13699.9	7845.9	1949.1	1047.0
82.5°	13.2	16.5	56.0	1587.0	4224.2	8797.4	11655.3	6314.9	1682.4	760.6	816.5
85°	13.2	13.2	42.8	777.0	2699.8	5844.1	5807.9	1056.9	668.4	493.9	619.0
87.5°	6.6	9.9	23.0	355.6	1507.9	3081.7	2314.6	405.0	286.4	200.8	345.7
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):**

	94°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7	11029.7
2.5°	11085.7	11069.2	11115.3	11233.8	11227.2	11316.1	11247.0	11382.0	11405.0	11375.4	11421.5
5°	11144.9	11151.5	11276.6	11401.7	11355.7	11500.5	11530.2	11731.0	11737.6	11711.2	11770.5
7.5°	11293.1	11316.1	11441.3	11589.4	11655.3	11777.1	11760.6	12020.7	11997.7	11984.5	12053.7
10°	11500.5	11543.3	11678.3	11912.1	11882.4	12070.1	11984.5	12159.0	12152.4	12126.1	12201.8
12.5°	11754.0	11796.8	11968.0	12191.9	12195.2	12208.4	12139.3	12228.2	12198.5	12136.0	12195.2
15°	12096.5	12145.8	12379.6	12544.2	12402.7	12366.4	12234.7	12185.4	12073.4	11908.8	11958.2
17.5°	12636.4	12675.9	12939.3	13031.5	12787.9	12643.0	12267.7	11987.8	11671.7	11441.3	11484.1
20°	13318.0	13354.2	13568.2	13545.1	13219.2	12863.6	12280.8	11806.7	11217.4	10766.3	10753.1
22.5°	14068.6	14091.7	14295.8	14091.7	13512.2	12995.3	12254.5	11526.9	10535.8	9953.1	9890.5
25°	14895.0	14914.8	14911.5	14457.1	13680.1	12919.6	12010.9	11059.3	9788.4	9166.2	9100.3
27.5°	15820.2	15823.5	15461.3	14740.3	13607.7	12639.7	11540.0	10219.8	9103.6	8563.7	8514.3
30°	16804.7	16798.1	15965.1	14766.6	13327.8	12109.6	10812.4	9426.3	8487.9	8007.2	7938.1
32.5°	17927.4	17871.4	16412.9	14674.4	12817.5	11349.1	9874.1	8761.2	8003.9	7454.1	7352.0
35°	19366.2	19227.9	16794.8	14355.1	12060.2	10321.8	9004.8	8181.7	7536.4	6976.7	6874.6
37.5°	21147.4	20969.6	17394.0	13904.0	11187.7	9472.4	8366.1	7789.9	7200.6	6561.8	6430.2
40°	20633.8	20976.2	18108.5	13416.7	10344.9	8794.1	7990.8	7602.3	6996.5	6288.6	6163.5
42.5°	21427.3	21384.5	19086.3	12840.5	9534.9	8264.0	7839.3	7546.3	6887.8	6170.0	6025.2
45°	22777.2	22767.3	20139.9	12280.8	8744.7	7839.3	7724.1	7394.8	6733.1	6021.9	5863.9
47.5°	23873.5	23840.6	21147.4	11665.1	8013.8	7506.8	7490.3	7088.6	6456.5	5794.7	5649.8
50°	24637.4	24686.8	21707.1	11072.5	7322.4	7164.4	7101.8	6657.3	6068.0	5521.4	5409.5
52.5°	25239.9	25332.1	21950.8	11016.5	6716.6	6723.2	6614.5	6209.6	5748.6	5307.4	5188.9
55°	25536.2	25677.8	21700.5	10654.4	6124.0	6163.5	6058.1	5801.3	5528.0	5123.0	5037.4
57.5°	25658.0	25727.2	21121.1	9011.4	5488.5	5481.9	5514.9	5488.5	5231.7	4833.3	4770.8
60°	25450.6	25358.4	19860.0	6848.3	4843.2	4872.8	5083.5	5057.2	4830.0	4527.1	4441.5
62.5°	24811.9	24630.8	17552.0	5063.8	4326.3	4566.6	4790.5	4714.8	4438.2	4161.7	4095.8
65°	23593.7	23083.4	13986.3	3954.2	4079.3	4408.6	4616.0	4504.1	4188.0	3862.0	3822.5
67.5°	21407.5	20768.8	9179.3	3546.0	3974.0	4273.6	4490.9	4303.2	3997.0	3644.7	3588.8
70°	17469.7	16768.4	4346.0	3305.6	3736.9	4033.2	4191.3	4000.3	3687.5	3335.2	3295.7
72.5°	12182.1	11385.3	2340.9	3045.5	3463.7	3720.5	3825.8	3592.1	3318.8	3164.0	3154.2
75°	6071.3	5188.9	2123.6	2778.8	3111.4	3335.2	3513.0	3351.7	3111.4	2828.2	2755.8
77.5°	1616.6	1389.4	1998.5	2482.5	2831.5	3085.0	3187.1	3019.2	2742.6	2502.3	2459.5
80°	1122.7	1145.8	1866.8	2057.8	2469.3	2696.5	2792.0	2578.0	2439.7	2202.6	2136.8
82.5°	951.5	1000.9	1507.9	1550.7	1962.3	2205.9	2373.9	2337.6	2140.1	1949.1	1922.8
85°	892.3	948.2	964.7	1073.3	1405.9	1692.3	1982.1	1998.5	1866.8	1623.2	1544.2
87.5°	513.6	507.0	464.2	546.5	770.4	938.3	1135.9	1083.2	882.4	763.8	747.4
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)