

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: P591048

Luminaire Tested: **CTN-CA10-760-740-U-T3-HSS-HM-EX120**

Issue Date: 12/14/2021

Test Information

Test Method: LM-79-08
Report Number: P591048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2112-474-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-740-U-T3-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96974 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

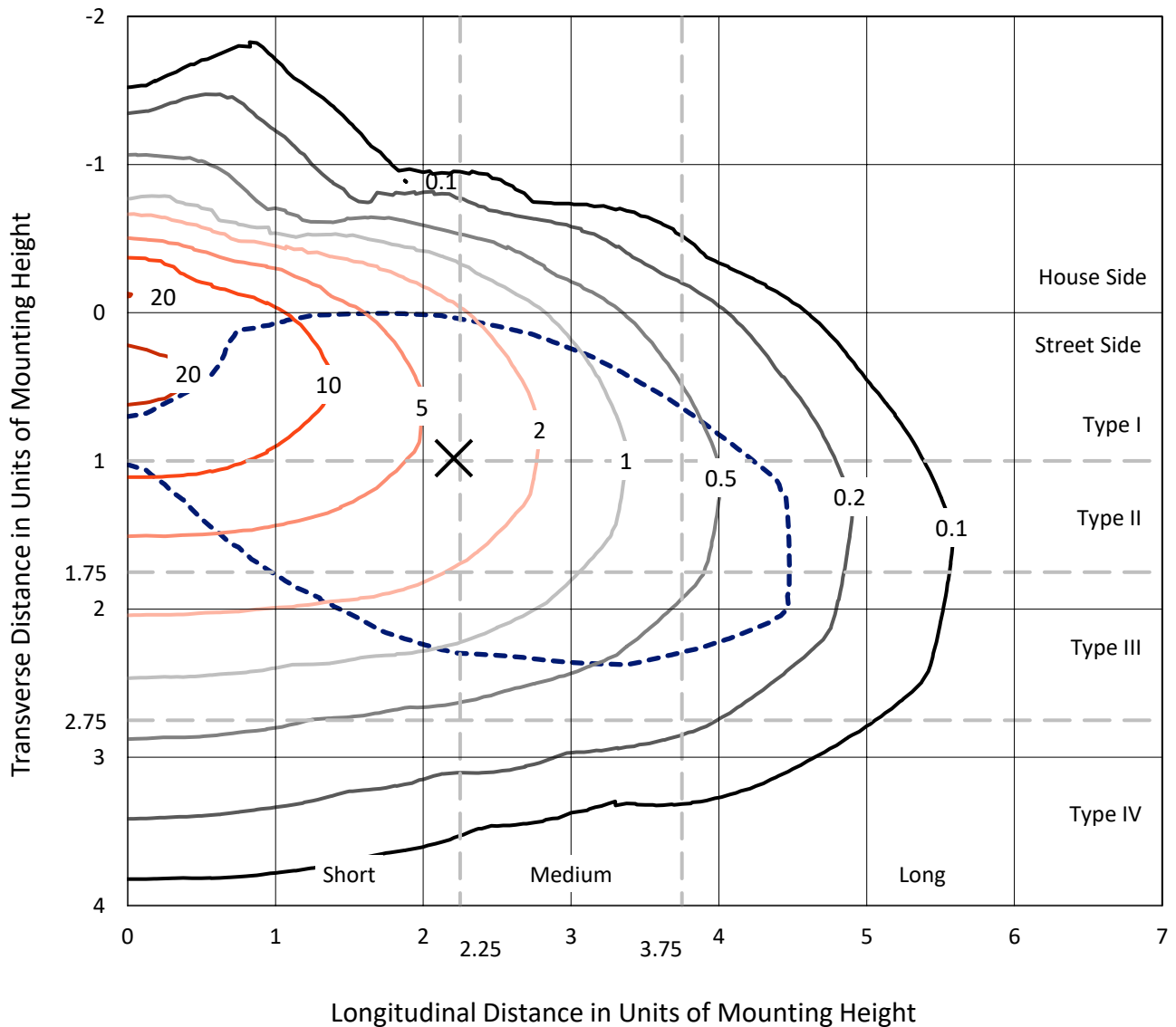
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

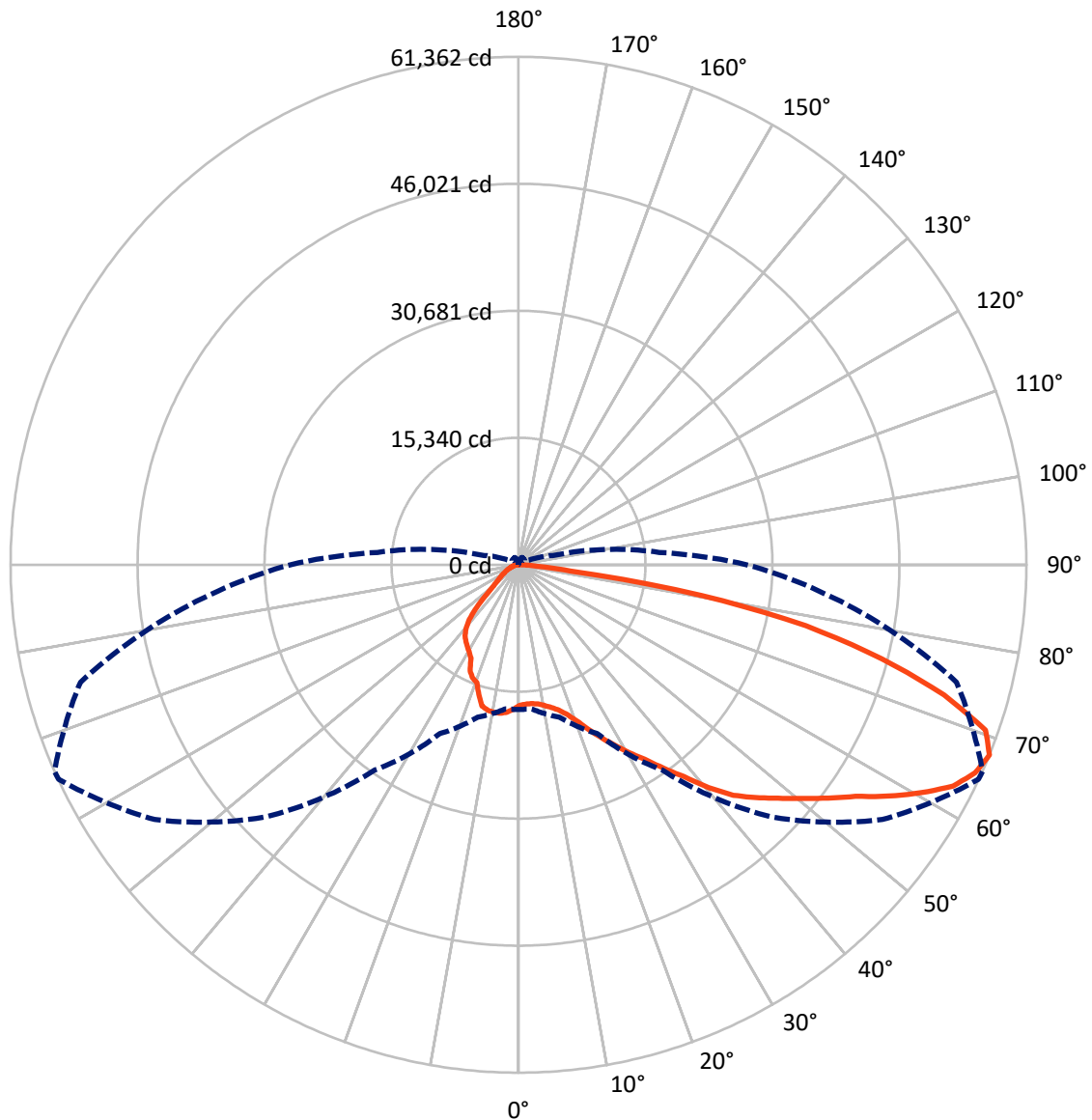
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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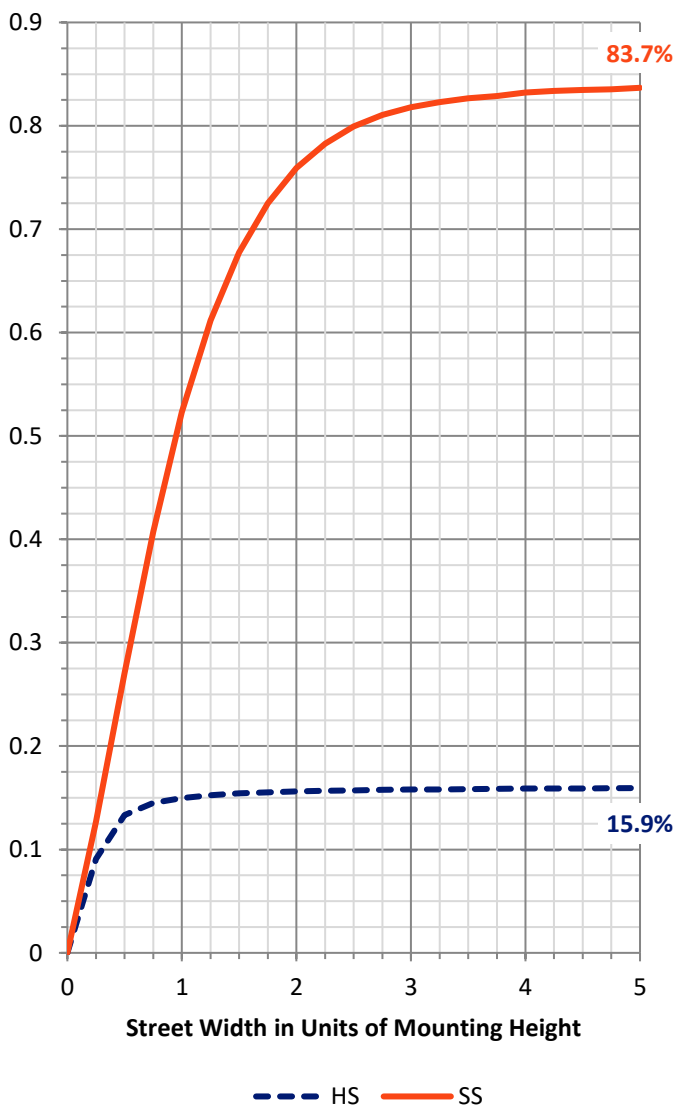
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15653.6	0.0	15653.6
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	81320.4	0.0	81320.4
	% Fixture	83.9	0.0	83.9
Total	Lumens	96974.0	0.0	96974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.6	1.7
10°-20°	5073.1	5.2
20°-30°	8246.7	8.5
30°-40°	12046.3	12.4
40°-50°	16044.5	16.5
50°-60°	19408.6	20.0
60°-70°	20779.0	21.4
70°-80°	12331.5	12.7
80°-90°	1361.6	1.4
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°	96974.0	100.0
0°-180°	96974.0	100.0

Coefficient of Utilization

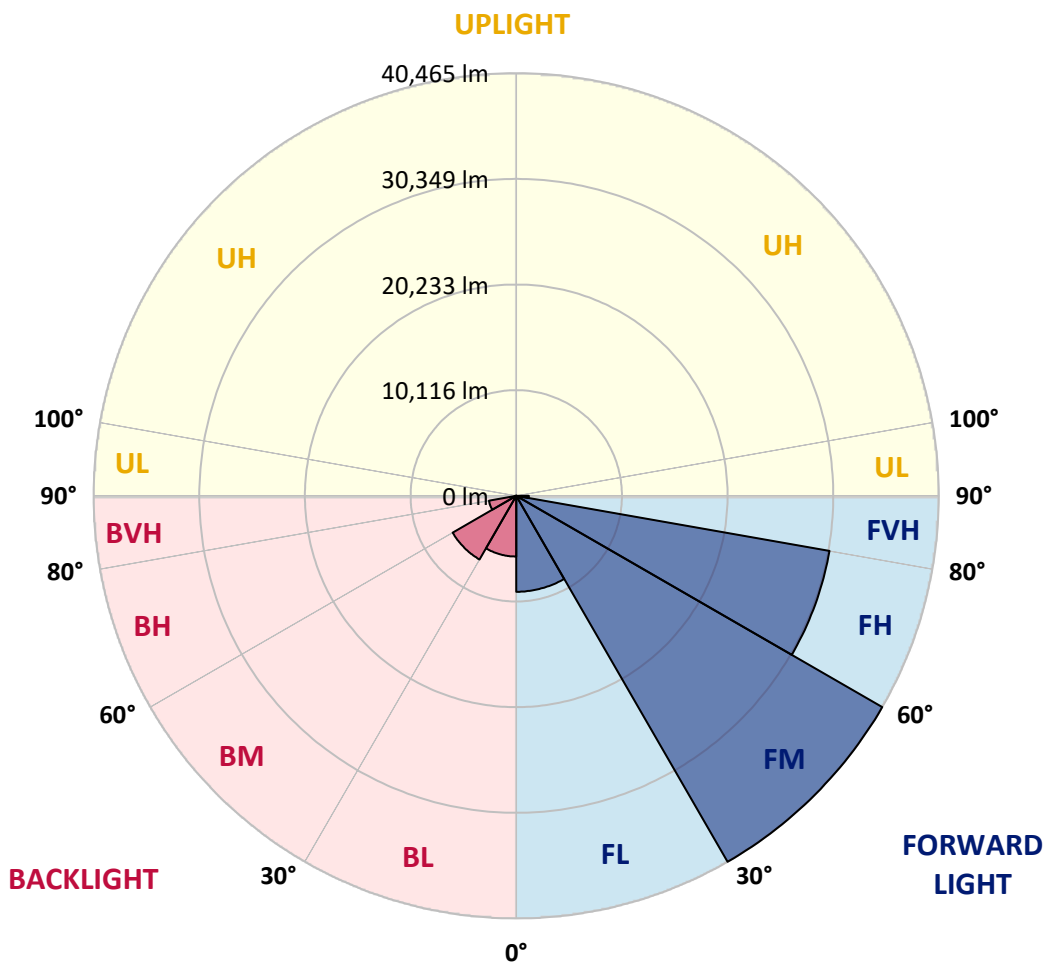


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9188.9	9.5			
FM (30°-60°)	40465.4	41.7			
FH (60°-80°)	30459.0	31.4			G5
FVH (80°-90°)	1207.0	1.2			G5
BL (0°-30°)	5813.6	6.0	B5		
BM (30°-60°)	7034.0	7.3	B4/8500		
BH (60°-80°)	2651.6	2.7	B4/5000		G4/5000
BVH (80°-90°)	154.5	0.2			G2/225
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°	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9
2.5°	16762.5	16667.9	16710.6	16822.1	16608.3	16744.2	16648.0	16816.0	16861.8	16880.1	16947.3
5°	17090.9	16965.6	16968.7	17038.9	16796.1	16855.7	16692.3	16809.9	16846.5	16895.4	17058.8
7.5°	17666.6	17527.6	17515.4	17533.7	17231.4	17164.2	16933.6	16958.0	16985.5	17014.5	17226.8
10°	18457.6	18315.6	18291.1	18243.8	17845.2	17669.6	17327.6	17274.1	17300.1	17252.7	17504.7
12.5°	19407.4	19236.4	19146.3	19010.4	18549.2	18274.3	17822.3	17675.7	17698.6	17599.4	17775.0
15°	20406.1	20224.4	20175.5	19966.3	19398.3	19022.6	18437.7	18214.8	18220.9	18106.4	18098.7
17.5°	21472.0	21310.1	21270.4	21137.6	20508.4	20061.0	19338.7	19036.3	19013.4	18900.4	18564.5
20°	22681.4	22579.1	22557.7	22481.4	21911.8	21388.0	20566.5	20160.3	20137.3	19958.7	19241.0
22.5°	24168.8	24048.2	23984.0	23918.4	23492.3	22947.1	22064.5	21491.9	21581.9	21281.1	20119.0
25°	25648.5	25552.3	25497.3	25454.6	25103.3	24587.2	23693.9	23022.0	23112.1	22789.9	21186.4
27.5°	27117.5	26905.3	26993.9	27094.6	26743.4	26332.6	25361.4	24630.0	24657.4	24309.3	22464.6
30°	28482.7	28371.3	28524.0	28618.6	28362.1	28041.4	27021.3	26314.3	26355.5	25941.7	23930.6
32.5°	29695.2	29534.9	29875.4	30060.2	29907.5	29643.3	28658.3	27988.0	28000.2	27749.7	25680.6
35°	30585.5	30596.2	31066.5	31562.8	31561.3	31188.7	30351.9	30040.3	30182.4	30070.9	27827.6
37.5°	31492.6	31411.6	31955.3	32692.8	32934.1	32602.7	32106.4	32291.2	32482.1	32824.2	29855.6
40°	31921.7	31924.7	32582.9	33435.0	33992.4	33929.8	33755.7	34991.1	35386.6	35488.9	29043.2
42.5°	31404.0	31440.7	32615.0	34122.2	34988.0	35319.4	35701.1	37805.4	38072.7	37493.9	30000.6
45°	30726.0	30776.4	32155.3	34358.9	35870.7	36803.7	37855.8	39908.2	40115.9	39346.2	31393.3
47.5°	30089.2	30182.4	31617.8	34216.8	36570.0	38475.8	39783.0	41888.8	42142.3	41126.8	32691.3
50°	29252.4	29460.1	30924.5	33839.7	37096.9	39931.1	41563.5	44272.5	44370.3	42864.6	33861.0
52.5°	28443.0	28504.1	30139.6	33357.1	37493.9	41250.5	43687.7	46721.9	46834.9	44767.3	34940.7
55°	27334.4	27426.0	29253.9	32752.4	37738.2	42356.1	45837.8	49275.2	49376.0	47053.3	36101.2
57.5°	26114.3	26181.5	28105.6	31823.9	37555.0	43338.0	48129.9	52491.2	52738.6	49405.0	37144.2
60°	24582.6	24671.2	26624.3	30536.6	36922.8	44483.3	50961.1	55928.6	55928.6	51564.3	37970.4
62.5°	22424.9	22548.6	24526.1	28682.8	35609.5	45146.0	53221.1	58921.6	58901.8	53265.4	38249.8
65°	19917.5	19937.3	21730.1	26074.6	33428.9	44793.3	54082.4	60670.1	60625.8	54496.2	37865.0
67.5°	17484.8	17463.5	19054.7	22507.3	30284.7	43057.0	53671.6	61308.4	61361.9	54792.5	36431.1
70°	14033.7	14006.2	15469.1	18291.1	25529.4	39317.2	51336.7	59688.2	59850.1	53100.5	34050.4
72.5°	10042.0	10000.7	10701.6	12567.7	18747.7	32343.1	45515.6	53460.9	53757.1	47680.9	29702.9
75°	5880.7	5925.0	6656.5	7730.0	11133.8	21276.5	36916.7	44897.1	45320.1	40561.8	23362.5
77.5°	3271.0	3261.8	3799.3	4607.1	5476.0	10655.8	25772.2	35357.6	35501.1	31784.2	15710.4
80°	1579.0	1571.3	1716.4	2165.4	3122.8	4787.3	12657.8	21968.3	22403.5	19317.3	7681.1
82.5°	1136.1	1142.2	1223.2	1188.1	1165.1	2111.9	4223.8	6919.1	6317.4	4875.9	2374.6
85°	853.6	853.6	926.9	855.2	835.3	1075.1	2053.9	2472.3	2373.1	2170.0	1411.0
87.5°	401.6	381.8	406.2	384.8	357.3	476.4	901.0	1044.5	966.6	842.9	616.9
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°	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9	16980.9
2.5°	17061.8	17095.4	17271.1	17500.1	17521.5	17718.5	17779.6	18023.9	18014.7	17947.5	18017.8
5°	17176.4	17278.7	17579.5	17901.7	17984.2	18231.6	18285.0	18524.8	18540.0	18457.6	18526.3
7.5°	17359.6	17509.3	17793.3	18112.5	18149.1	18369.0	18359.8	18587.4	18547.7	18475.9	18567.5
10°	17584.1	17700.2	17889.5	18100.2	18083.5	18259.1	18204.1	18367.5	18285.0	18227.0	18332.4
12.5°	17810.1	17814.7	17830.0	17962.8	17859.0	17898.7	17790.3	17910.9	17784.1	17686.4	17750.6
15°	18036.1	17907.8	17692.5	17610.1	17321.4	17173.3	17017.6	17162.6	16866.4	16710.6	16750.3
17.5°	18355.3	18046.8	17323.0	16275.4	15386.7	14896.5	14528.5	14244.4	14250.5	14391.0	14475.0
20°	18610.3	17437.5	15669.2	15021.7	14357.4	13461.0	12069.9	11688.1	11436.2	11431.6	11472.8
22.5°	18520.2	16793.1	15670.7	14658.3	13213.7	11422.4	10820.8	10471.1	9883.1	8626.4	8524.1
25°	19349.4	17364.2	15760.8	13906.9	11391.9	10483.3	9657.1	8977.6	7493.3	7259.6	7250.5
27.5°	20343.5	18135.4	15883.0	12285.2	10663.5	9437.2	8386.6	6745.0	6033.4	5932.6	5897.5
30°	21493.4	19044.0	15137.8	11766.0	9887.7	8220.2	6827.5	5179.8	4601.0	4565.9	4575.1
32.5°	22934.9	20080.8	14360.5	11338.4	8948.6	6810.7	4656.0	3950.5	3619.1	3257.2	3373.3
35°	24471.1	19483.8	14824.7	10810.1	7772.7	5121.8	3536.7	3138.1	2869.3	2400.5	2209.7
37.5°	23866.4	19894.5	15363.8	10229.8	6303.7	3472.5	2736.5	2391.4	2139.4	1748.5	1740.8
40°	24611.6	21070.4	15748.6	9295.2	4558.3	2463.1	1994.3	1850.8	1734.7	1517.9	1487.4
42.5°	25928.0	22096.6	16009.7	8096.5	2724.3	1832.5	1702.7	1724.1	1623.3	1456.8	1437.0
45°	27224.4	22994.5	15763.8	6268.6	1937.8	1652.3	1659.9	1650.8	1528.6	1467.5	1446.1
47.5°	28404.9	23753.4	15072.1	4135.3	1681.3	1611.0	1627.8	1586.6	1449.2	1414.1	1411.0
50°	29418.8	24555.1	11934.0	3168.7	1617.2	1556.1	1592.7	1525.5	1288.8	1250.7	1211.0
52.5°	30043.4	23222.0	10602.4	2434.1	1550.0	1470.6	1481.2	1536.2	1214.0	966.6	905.5
55°	29948.7	20919.2	9857.2	2026.4	1443.1	1351.4	1372.8	1461.4	1098.0	755.9	684.1
57.5°	30399.2	20729.8	9084.5	1724.1	1244.6	1224.7	1181.9	1331.6	998.7	500.9	474.9
60°	30325.9	20706.9	8107.2	1356.0	1099.5	1029.2	975.8	1084.2	716.2	186.3	169.5
62.5°	30206.8	20119.0	6997.0	1215.5	1012.4	985.0	939.1	1061.3	609.3	129.8	96.2
65°	29609.7	19164.6	5738.7	1064.4	945.3	888.7	885.7	1004.8	502.4	71.8	32.1
67.5°	27571.1	17086.3	4269.7	980.4	905.5	876.5	930.0	968.2	482.6	73.3	29.0
70°	25036.2	14345.2	2754.8	884.2	849.0	864.3	908.6	978.8	468.8	67.2	26.0
72.5°	20934.5	11097.1	1670.6	789.5	768.1	813.9	896.4	978.8	433.7	56.5	21.4
75°	15925.7	7401.7	1243.0	697.9	673.4	731.5	817.0	940.7	426.0	48.9	13.7
77.5°	9887.7	3495.4	980.4	586.4	560.4	620.0	685.7	775.7	432.2	47.3	7.6
80°	3999.4	1459.9	769.6	471.9	439.8	471.9	555.9	661.2	343.6	67.2	0.0
82.5°	1682.8	1027.7	629.1	375.7	351.2	310.0	378.7	490.2	270.3	53.4	0.0
85°	1113.2	713.1	450.5	255.0	224.5	151.2	184.8	221.4	154.2	0.0	0.0
87.5°	503.9	316.1	197.0	87.0	73.3	41.2	24.4	21.4	0.0	0.0	0.0
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)