

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: P510518

Luminaire Tested: **CTN-CA10-630-722-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510518
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-CA10-630-722-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70134 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

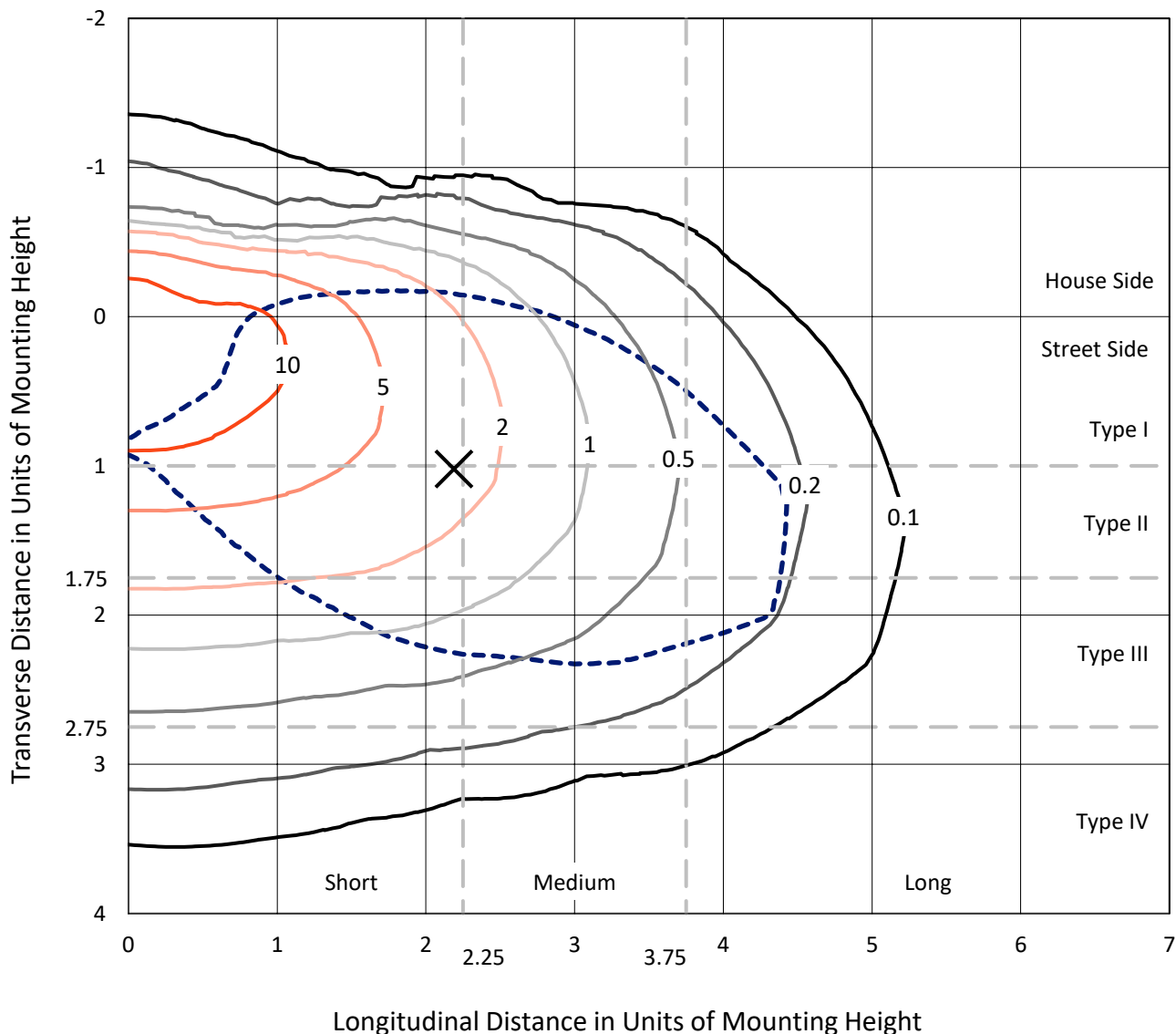
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

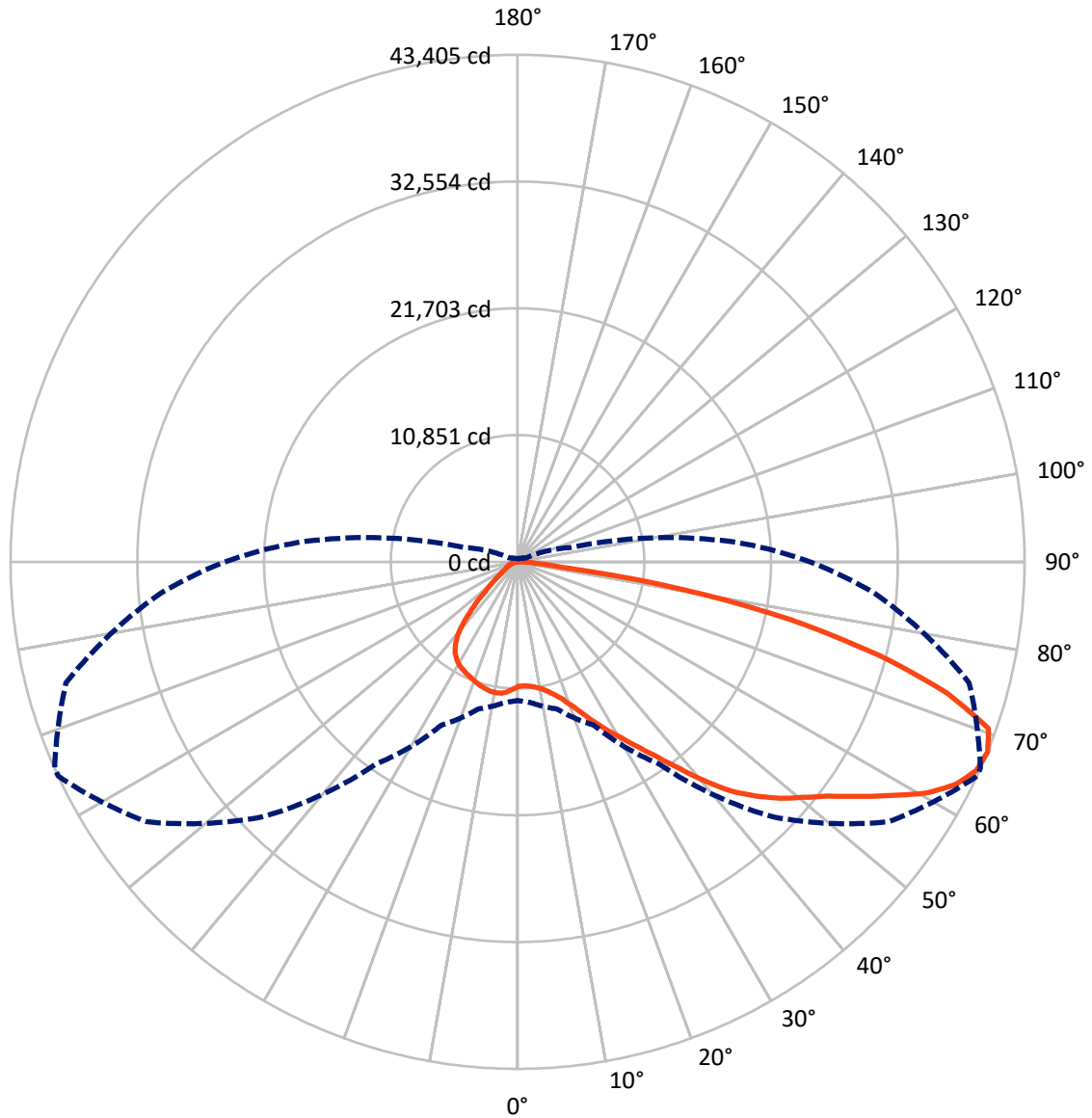
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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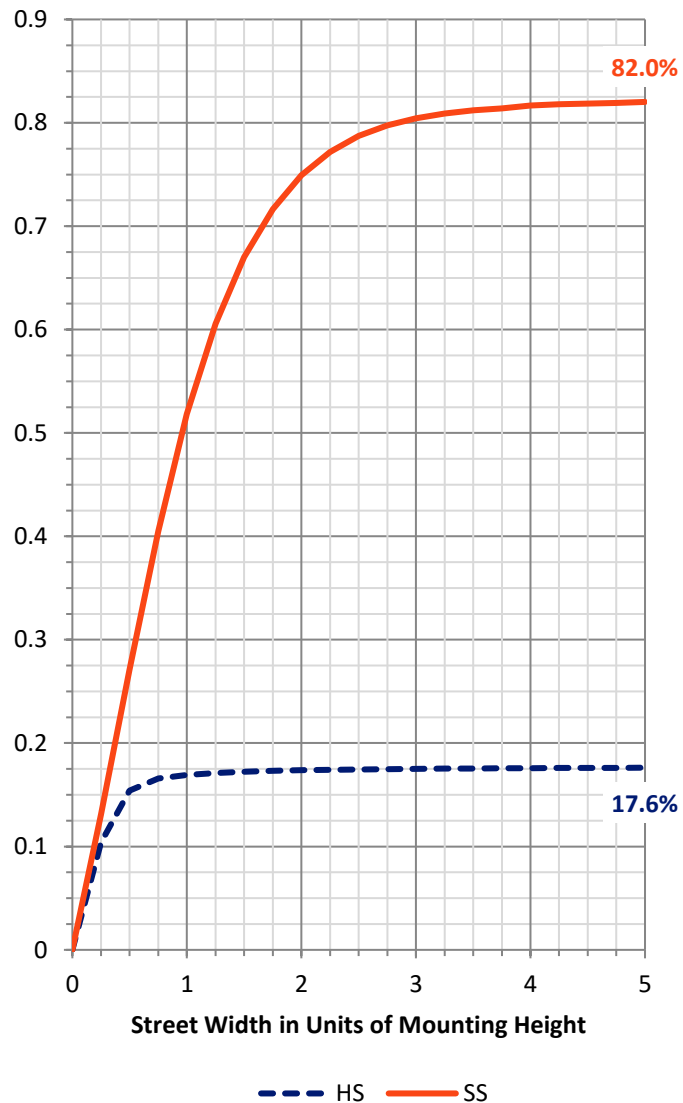
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12534.7	0.0	12534.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	57599.3	0.0	57599.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	70134.0	0.0	70134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.4	1.5
10°-20°	3255.2	4.6
20°-30°	5647.1	8.1
30°-40°	8518.6	12.1
40°-50°	11811.6	16.8
50°-60°	14579.9	20.8
60°-70°	15534.6	22.1
70°-80°	8889.2	12.7
80°-90°	843.4	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°	70134.0	100.0
0°-180°	70134.0	100.0

Coefficient of Utilization



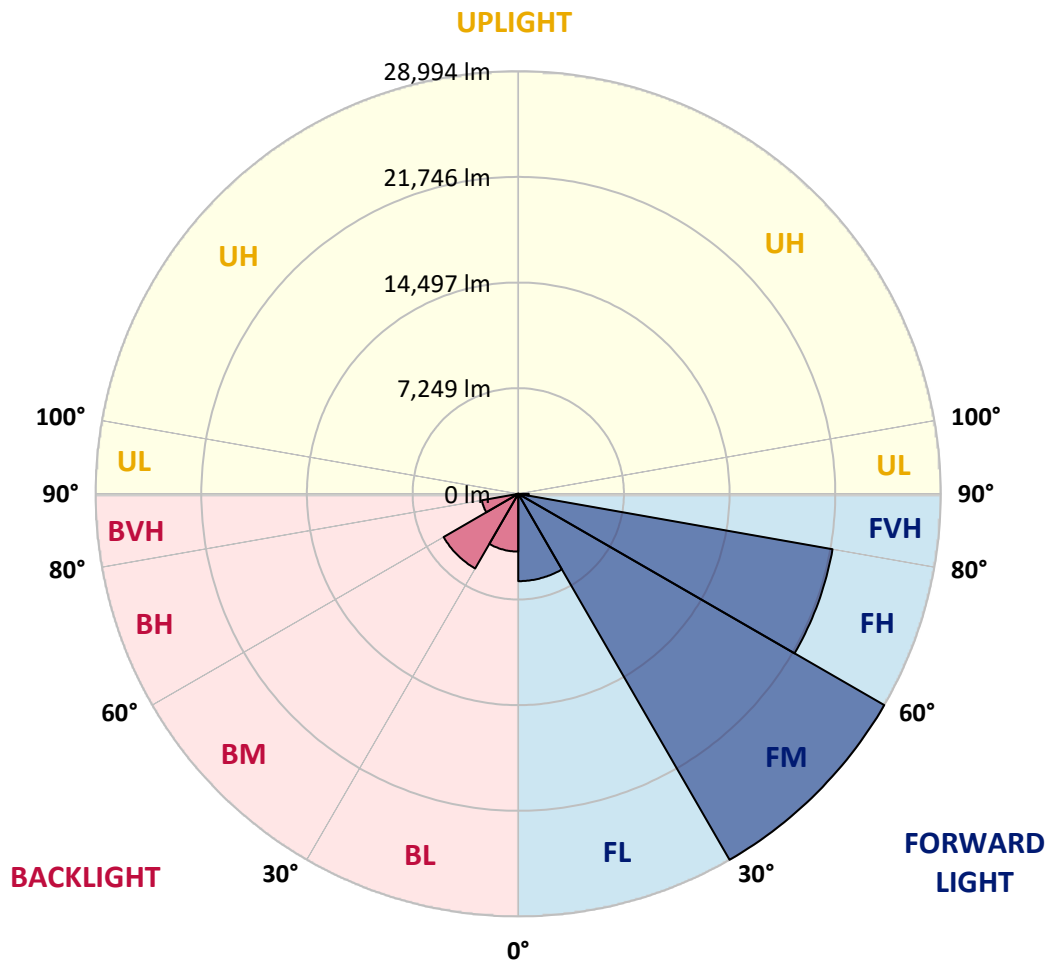
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5990.4	8.5			
FM (30°-60°)	28994.4	41.3			
FH (60°-80°)	21893.9	31.2			G5
FVH (80°-90°)	720.7	1.0			G4/750
BL (0°-30°)	3966.3	5.7	B4/5000		
BM (30°-60°)	5915.7	8.4	B4/8500		
BH (60°-80°)	2529.9	3.6	B4/5000		G4/5000
BVH (80°-90°)	122.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3
2.5°	10554.4	10540.6	10528.3	10549.8	10562.1	10582.0	10611.2	10631.2	10637.3	10655.8	10678.8
5°	10723.4	10721.8	10704.9	10695.7	10669.6	10660.4	10666.5	10691.1	10692.7	10715.7	10787.9
7.5°	11055.2	11052.1	11010.7	10992.2	10936.9	10875.5	10829.4	10834.0	10832.5	10855.5	10952.3
10°	11556.1	11531.5	11473.1	11416.3	11308.7	11193.5	11109.0	11032.2	11032.2	11066.0	11173.5
12.5°	12121.4	12155.2	12075.3	11989.3	11809.5	11602.1	11454.7	11368.6	11359.4	11376.3	11453.1
15°	12823.5	12823.5	12769.7	12646.8	12488.6	12199.8	11895.6	11786.5	11771.1	11806.5	11801.9
17.5°	13614.7	13637.7	13536.3	13474.9	13232.2	12912.6	12531.6	12342.6	12342.6	12319.6	12213.6
20°	14624.0	14498.1	14508.8	14407.4	14229.2	13765.3	13378.1	13103.1	13100.0	13053.9	12755.9
22.5°	15721.0	15651.8	15591.9	15502.8	15257.0	14842.2	14304.5	14032.6	14026.4	13912.7	13470.3
25°	16802.5	16854.8	16788.7	16625.8	16446.1	15994.4	15401.4	15134.1	15132.6	14943.6	14316.8
27.5°	17914.8	17971.6	17950.1	17802.7	17563.0	17209.6	16648.9	16300.2	16278.6	16155.7	15367.6
30°	19143.8	19093.1	19159.2	19096.2	18976.4	18400.3	17893.3	17487.7	17539.9	17503.1	16561.3
32.5°	20038.0	20070.2	20286.9	20293.0	20167.0	19739.9	19120.8	18871.9	18954.9	18905.7	18028.5
35°	20846.1	20898.3	21177.9	21452.9	21545.1	21078.0	20448.2	20432.8	20540.3	20839.9	20050.3
37.5°	21540.5	21577.3	21969.1	22327.1	22625.1	22305.6	21847.7	22393.1	22551.4	23164.3	22136.6
40°	21956.8	22004.4	22511.4	23015.3	23546.9	23433.2	23390.2	24680.7	24829.7	25368.9	23659.0
42.5°	21721.8	21815.5	22660.4	23582.2	24364.2	24591.6	25180.0	26839.2	27009.7	27055.8	25155.4
45°	21302.3	21419.1	22363.9	23855.7	25130.8	25860.6	26980.5	28598.2	28692.0	28561.4	26395.2
47.5°	20850.7	20975.1	22030.6	23774.3	25746.9	27336.9	28589.0	30254.4	30320.4	29919.5	27644.2
50°	20337.6	20452.8	21588.1	23583.8	26210.8	28730.4	30242.1	31686.2	31933.5	31140.8	28615.1
52.5°	19713.8	19836.7	21041.2	23285.7	26617.9	29764.3	31700.0	33303.9	33320.8	32667.9	29709.0
55°	18905.7	19119.3	20354.4	22769.5	26831.5	30652.3	32970.6	35444.0	35553.1	34921.7	30624.6
57.5°	18007.0	18192.9	19527.9	22081.3	26639.5	31326.7	35013.8	37739.2	37725.4	36458.0	31425.0
60°	16819.4	16951.5	18451.0	21181.0	26020.3	32142.5	37141.6	40198.8	40174.3	37963.5	31939.7
62.5°	15295.4	15427.5	16837.9	19769.1	25110.8	32689.4	38585.7	42040.9	41970.2	39058.9	32097.9
65°	13528.7	13765.3	14989.7	17936.3	23502.3	32329.9	39283.2	43125.5	43011.8	39894.7	31720.0
67.5°	11872.5	12073.8	13043.2	15413.7	21128.7	30872.0	38791.6	43405.1	43371.3	40016.0	30652.3
70°	9528.1	9601.9	10489.9	12519.3	17579.9	27750.2	37092.4	42759.9	42775.2	38897.6	28507.6
72.5°	6521.6	6701.3	7096.2	8698.5	12792.8	22069.0	31970.4	38482.8	38485.9	34878.6	24837.4
75°	3507.4	3785.4	4246.3	5040.6	7151.5	14161.6	25674.7	31932.0	31991.9	29080.6	19741.5
77.5°	1739.1	1839.0	2106.3	2696.2	3278.5	6681.4	16512.2	23969.4	24112.2	22322.5	13464.1
80°	795.8	812.7	832.7	828.1	1255.2	2931.3	7088.5	14395.1	14438.2	13276.7	6146.7
82.5°	622.2	619.1	628.3	571.5	574.6	1130.7	2453.5	3770.1	4020.5	3164.8	1949.6
85°	376.4	374.9	404.0	313.4	385.6	611.4	1238.3	1504.0	1522.5	1238.3	1009.3
87.5°	142.9	138.3	127.5	112.1	129.0	172.1	428.6	553.1	540.8	384.1	348.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3	10657.3
2.5°	10698.8	10748.0	10838.6	10907.7	10930.8	11004.5	11075.2	11087.5	11138.2	11158.2	11224.2
5°	10832.5	10915.4	11056.8	11150.5	11192.0	11314.9	11394.7	11434.7	11420.9	11428.5	11502.3
7.5°	11027.6	11105.9	11219.6	11333.3	11353.3	11374.8	11367.1	11360.9	11307.2	11261.1	11330.2
10°	11205.8	11279.5	11350.2	11367.1	11265.7	11208.9	11107.5	11029.1	10924.6	10877.0	10932.3
12.5°	11456.2	11471.6	11402.4	11310.2	11092.1	10889.3	10724.9	10582.0	10453.0	10363.9	10437.6
15°	11720.4	11660.5	11459.3	11190.4	10852.4	10562.1	10293.2	10055.1	9841.5	9789.3	9809.3
17.5°	12070.7	11907.9	11502.3	11050.6	10525.2	10073.5	9727.9	9426.7	9147.1	9030.4	9019.6
20°	12497.8	12235.1	11589.9	10873.9	10138.0	9537.4	9002.7	8552.6	8167.0	7850.5	7858.2
22.5°	13053.9	12672.9	11722.0	10689.6	9709.4	8909.0	8131.6	7366.6	6732.1	6458.6	6391.0
25°	13788.3	13219.9	11909.4	10522.1	9230.1	8110.1	7011.7	5931.7	5260.3	4994.5	4965.3
27.5°	14702.4	13954.2	12195.2	10336.2	8717.0	7162.2	5582.9	4524.4	3908.3	3628.7	3535.0
30°	15740.9	14859.1	12488.6	10142.7	8096.3	5943.9	4257.1	3220.1	2588.7	2338.2	2306.0
32.5°	17085.2	16005.2	12924.9	9838.5	7189.9	4671.9	2969.7	2009.5	1580.9	1473.3	1442.6
35°	18994.8	17555.3	13464.1	9454.4	6025.4	3263.1	1840.5	1176.8	947.9	894.1	883.4
37.5°	20775.4	19076.2	14008.0	8816.8	4575.1	2037.1	1052.4	754.3	703.6	705.2	708.2
40°	22187.3	20116.3	14447.4	7978.0	3009.6	1156.8	731.3	626.8	628.3	623.7	620.7
42.5°	23444.0	20945.9	14645.6	6738.2	1743.7	774.3	634.5	577.6	563.8	568.4	565.4
45°	24484.0	21792.4	14261.5	5344.8	1027.8	694.4	599.2	536.2	520.8	545.4	548.5
47.5°	25577.9	22595.9	13673.1	4026.6	834.2	660.6	566.9	505.4	497.8	528.5	531.6
50°	26498.1	23178.2	12669.9	3034.2	795.8	623.7	537.7	474.7	473.2	500.8	500.8
52.5°	27267.8	23530.0	11479.2	2342.9	769.7	591.5	508.5	445.5	445.5	454.7	456.3
55°	27810.1	23459.3	10769.5	1843.6	742.0	560.7	477.8	417.9	399.4	393.3	396.4
57.5°	27908.4	23271.9	9946.0	1438.0	709.8	531.6	450.1	385.6	351.8	347.2	345.7
60°	27845.5	22860.2	9005.8	1201.4	672.9	503.9	422.5	351.8	318.0	307.3	310.3
62.5°	27582.7	22130.4	7919.6	1053.9	636.0	482.4	391.8	328.8	298.0	284.2	284.2
65°	26790.0	21085.7	6306.5	923.3	589.9	459.4	367.2	319.6	285.8	270.4	267.3
67.5°	25047.8	18918.0	4739.5	809.6	545.4	434.8	364.1	318.0	279.6	258.1	255.0
70°	22711.1	16251.0	3235.4	711.3	496.2	411.7	362.6	319.6	273.5	245.8	242.7
72.5°	18959.5	12811.2	1863.5	619.1	447.1	390.2	356.4	321.1	262.7	228.9	224.3
75°	14246.1	8985.8	1093.8	531.6	399.4	358.0	339.5	311.9	245.8	208.9	204.3
77.5°	8567.9	4195.6	823.5	440.9	342.6	314.9	302.7	285.8	224.3	193.6	189.0
80°	3143.3	1593.1	646.8	353.3	271.9	273.5	261.2	250.4	204.3	178.2	175.1
82.5°	1370.4	974.0	477.8	268.9	213.5	244.3	215.1	205.9	175.1	159.8	153.6
85°	831.1	580.7	307.3	182.8	147.5	165.9	150.6	158.2	135.2	126.0	121.4
87.5°	275.0	173.6	136.7	89.1	73.7	69.1	67.6	81.4	76.8	70.7	70.7
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)