

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: P591023

Luminaire Tested: **CTN-CA10-630-722-U-T3-HSS-HM-EX120**

Issue Date: 12/14/2021

Test Information

Test Method: LM-79-08
Report Number: P591023
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-CA10-630-722-U-T3-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68454 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

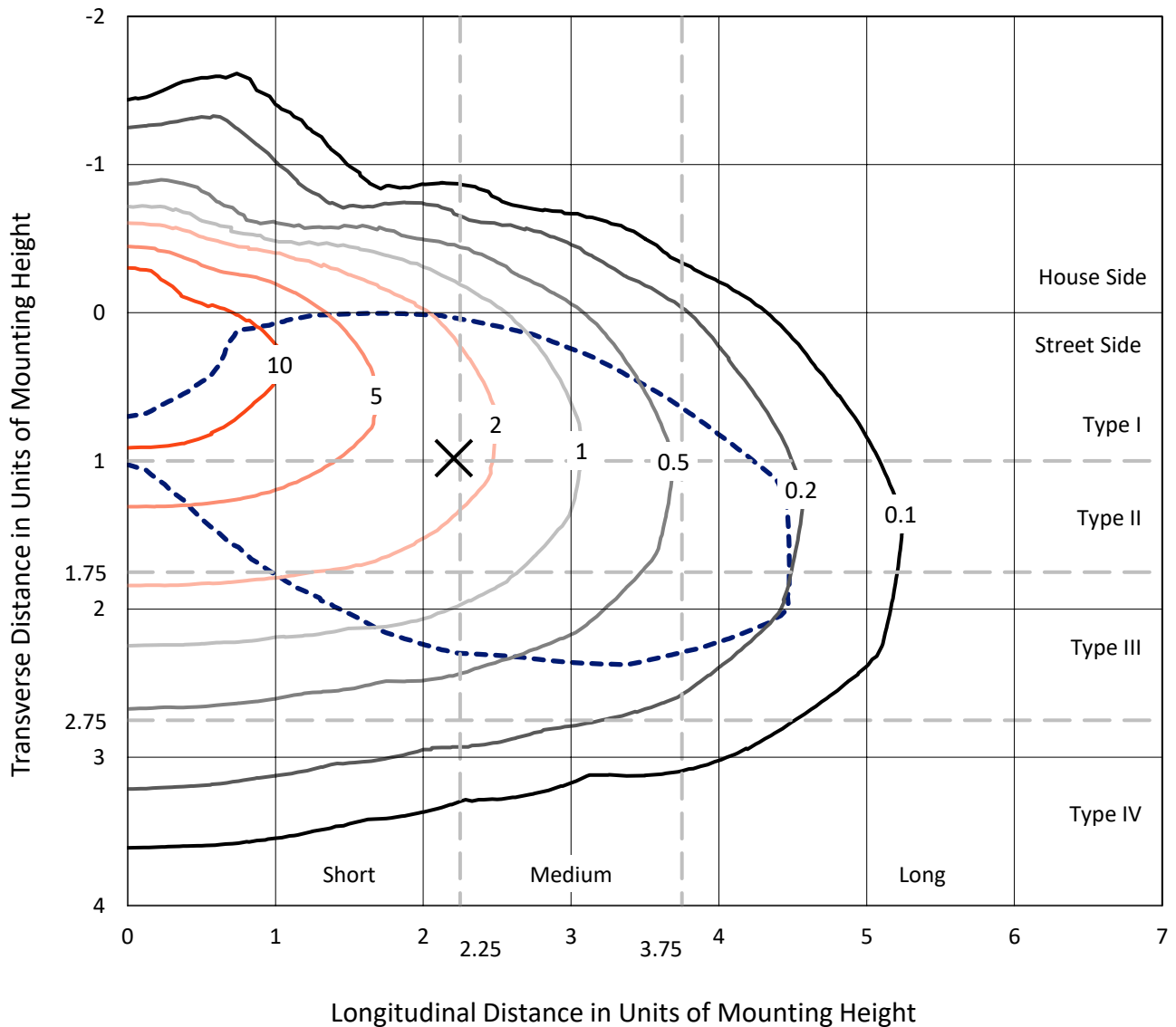
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

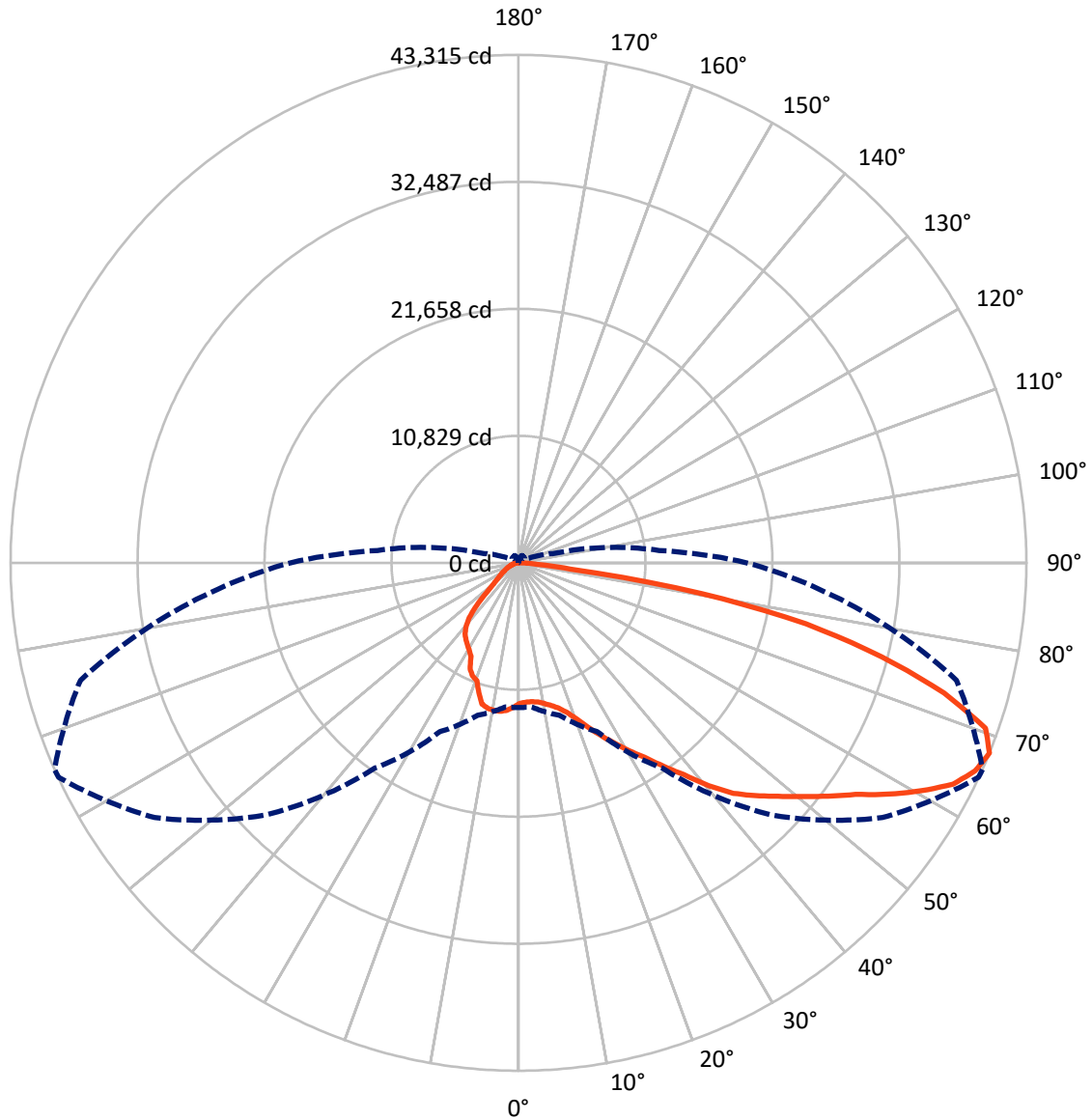
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 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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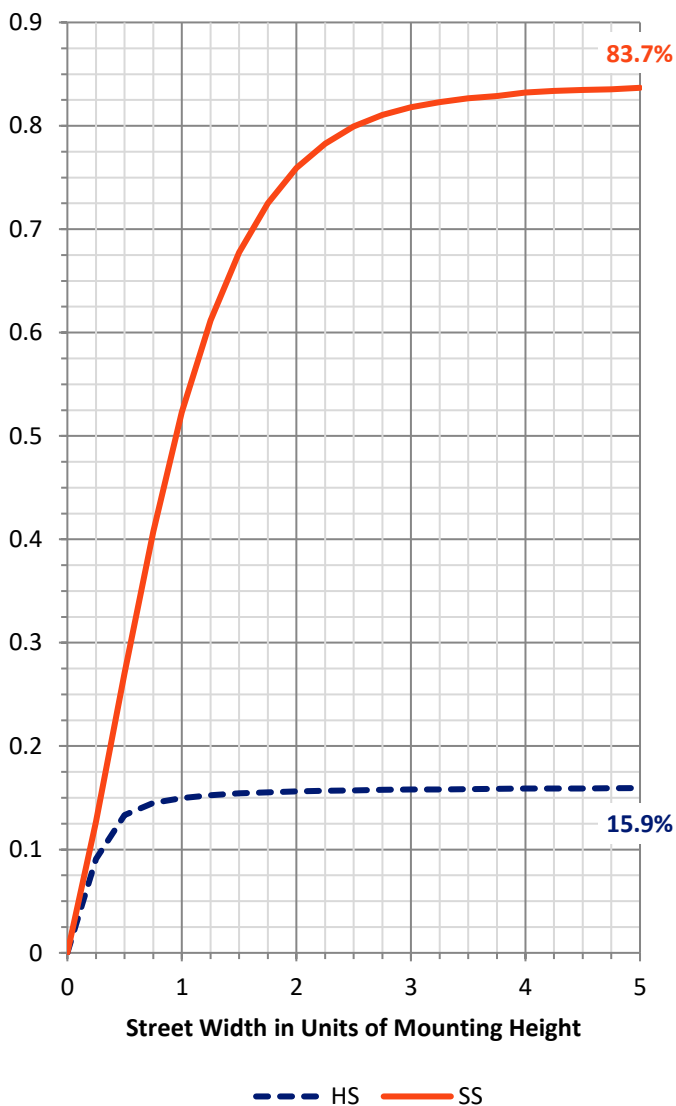
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11049.9	0.0	11049.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	57404.1	0.0	57404.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	68454.0	0.0	68454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1187.8	1.7
10°-20°	3581.1	5.2
20°-30°	5821.3	8.5
30°-40°	8503.5	12.4
40°-50°	11325.8	16.5
50°-60°	13700.6	20.0
60°-70°	14667.9	21.4
70°-80°	8704.8	12.7
80°-90°	961.1	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°	68454.0	100.0
0°-180°	68454.0	100.0

Coefficient of Utilization

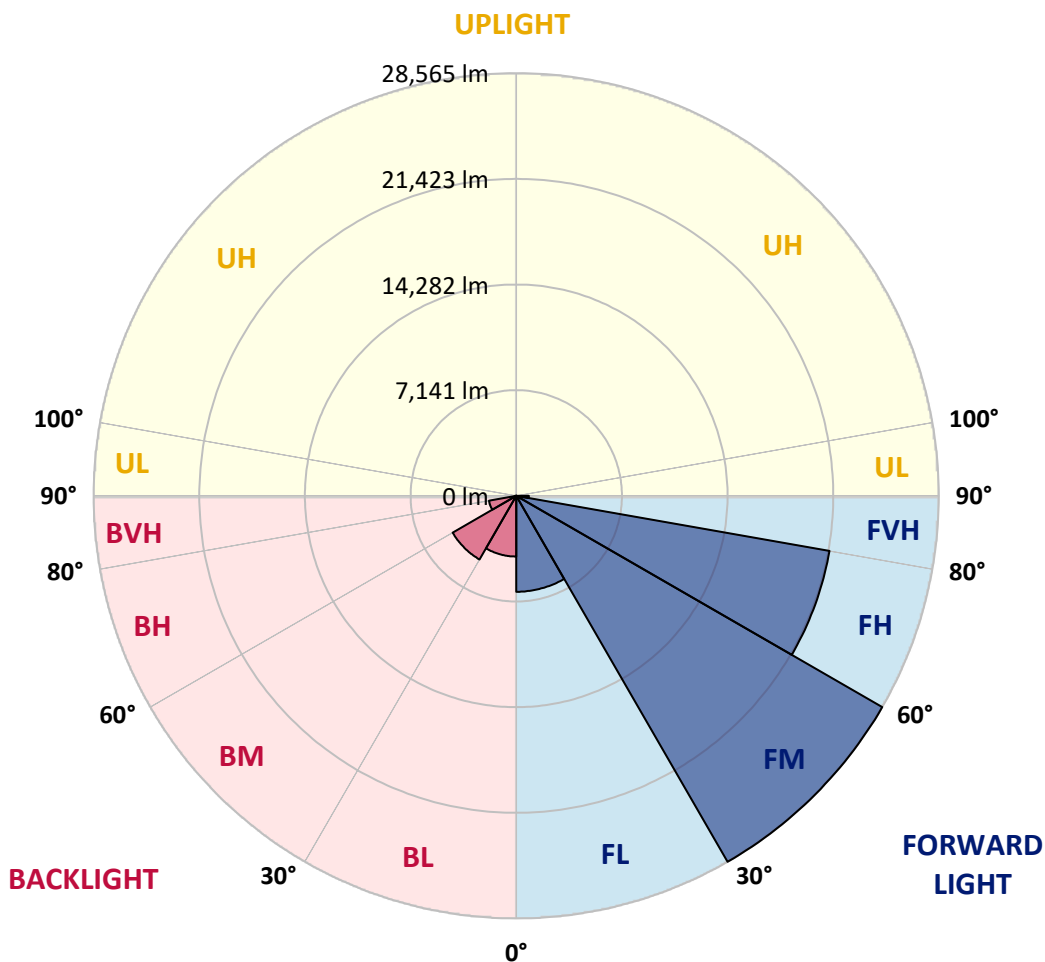


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6486.4	9.5			
FM (30°-60°)	28564.6	41.7			
FH (60°-80°)	21501.0	31.4			G5
FVH (80°-90°)	852.0	1.2			G5
BL (0°-30°)	4103.8	6.0	B4/5000		
BM (30°-60°)	4965.3	7.3	B3/5000		
BH (60°-80°)	1871.7	2.7	B3/2500		G3/2500
BVH (80°-90°)	109.1	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°	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8
2.5°	11832.7	11765.9	11796.0	11874.7	11723.8	11819.8	11751.8	11870.4	11902.8	11915.7	11963.1
5°	12064.4	11976.1	11978.2	12027.8	11856.4	11898.4	11783.1	11866.1	11892.0	11926.5	12041.8
7.5°	12470.8	12372.7	12364.1	12377.1	12163.6	12116.2	11953.4	11970.7	11990.1	12010.6	12160.4
10°	13029.2	12929.0	12911.7	12878.3	12597.0	12473.0	12231.5	12193.8	12212.1	12178.7	12356.6
12.5°	13699.7	13579.0	13515.4	13419.4	13093.9	12899.9	12580.8	12477.3	12493.5	12423.4	12547.4
15°	14404.7	14276.4	14241.9	14094.2	13693.2	13428.1	13015.2	12857.8	12862.1	12781.3	12775.9
17.5°	15157.1	15042.8	15014.8	14921.0	14476.9	14161.1	13651.2	13437.8	13421.6	13341.8	13104.7
20°	16010.8	15938.6	15923.5	15869.6	15467.5	15097.8	14517.9	14231.1	14215.0	14088.8	13582.2
22.5°	17060.8	16975.6	16930.3	16884.0	16583.2	16198.4	15575.3	15171.1	15234.7	15022.4	14202.0
25°	18105.3	18037.4	17998.6	17968.4	17720.5	17356.1	16725.5	16251.2	16314.8	16087.4	14955.5
27.5°	19142.3	18992.5	19055.0	19126.1	18878.2	18588.2	17902.6	17386.3	17405.7	17159.9	15857.8
30°	20106.0	20027.3	20135.1	20201.9	20020.8	19794.4	19074.4	18575.3	18604.4	18312.3	16892.6
32.5°	20961.9	20848.7	21089.1	21219.5	21111.7	20925.2	20229.9	19756.7	19765.3	19588.6	18127.9
35°	21590.3	21597.9	21929.9	22280.2	22279.1	22016.1	21425.4	21205.5	21305.7	21227.0	19643.5
37.5°	22230.6	22173.5	22557.2	23077.9	23248.2	23014.3	22664.0	22794.4	22929.1	23170.6	21075.1
40°	22533.5	22535.7	23000.3	23601.8	23995.2	23951.0	23828.1	24700.2	24979.4	25051.6	20501.6
42.5°	22168.1	22194.0	23022.9	24086.9	24698.1	24932.0	25201.5	26686.9	26875.5	26467.0	21177.5
45°	21689.5	21725.1	22698.5	24253.9	25321.1	25979.7	26722.5	28171.2	28317.8	27774.5	22160.6
47.5°	21240.0	21305.7	22319.0	24153.7	25814.8	27160.1	28082.8	29569.3	29748.3	29031.4	23076.8
50°	20649.3	20795.9	21829.6	23887.4	26186.7	28187.4	29339.7	31252.0	31321.0	30258.1	23902.5
52.5°	20078.0	20121.1	21275.6	23546.8	26467.0	29118.7	30839.2	32981.0	33060.8	31601.3	24664.6
55°	19295.4	19360.0	20650.3	23119.9	26639.5	29899.2	32356.9	34783.4	34854.5	33215.0	25483.9
57.5°	18434.1	18481.5	19839.7	22464.5	26510.1	30592.3	33974.9	37053.6	37228.2	34875.0	26220.1
60°	17352.9	17415.4	18794.1	21555.8	26063.8	31400.8	35973.4	39480.0	39480.0	36399.2	26803.3
62.5°	15829.7	15917.1	17313.0	20247.2	25136.8	31868.6	37568.8	41592.8	41578.8	37600.1	27000.6
65°	14059.7	14073.8	15339.3	18406.0	23597.5	31619.6	38176.8	42827.1	42795.8	38468.9	26728.9
67.5°	12342.6	12327.5	13450.7	15887.9	21378.0	30394.0	37886.8	43277.7	43315.4	38678.0	25716.7
70°	9906.4	9887.0	10919.7	12911.7	18021.2	27754.1	36238.6	42133.9	42248.2	37483.7	24036.2
72.5°	7088.6	7059.5	7554.3	8871.6	13234.0	22831.0	32129.5	37738.1	37947.2	33658.0	20967.3
75°	4151.2	4182.5	4698.8	5456.6	7859.4	15019.1	26059.5	31692.9	31991.5	28632.6	16491.6
77.5°	2309.0	2302.5	2681.9	3252.2	3865.5	7522.0	18192.6	24958.9	25060.2	22436.5	11090.0
80°	1114.6	1109.2	1211.6	1528.5	2204.4	3379.4	8935.2	15507.4	15814.6	13636.1	5422.1
82.5°	802.0	806.3	863.4	838.6	822.5	1490.8	2981.6	4884.2	4459.5	3441.9	1676.2
85°	602.6	602.6	654.3	603.7	589.6	758.9	1449.8	1745.2	1675.1	1531.8	996.0
87.5°	283.5	269.5	286.7	271.6	252.2	336.3	636.0	737.3	682.3	595.0	435.5
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°	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8
2.5°	12044.0	12067.7	12191.6	12353.3	12368.4	12507.5	12550.6	12723.1	12716.6	12669.2	12718.8
5°	12124.8	12197.0	12409.4	12636.8	12695.1	12869.7	12907.4	13076.6	13087.4	13029.2	13077.7
7.5°	12254.2	12359.8	12560.3	12785.6	12811.5	12966.7	12960.2	13120.8	13092.8	13042.2	13106.8
10°	12412.6	12494.6	12628.2	12777.0	12765.1	12889.1	12850.3	12965.6	12907.4	12866.4	12940.8
12.5°	12572.2	12575.4	12586.2	12680.0	12606.7	12634.7	12558.2	12643.3	12553.8	12484.9	12530.1
15°	12731.7	12641.2	12489.2	12431.0	12227.2	12122.7	12012.7	12115.1	11906.0	11796.0	11824.1
17.5°	12957.0	12739.2	12228.3	11488.8	10861.5	10515.4	10255.6	10055.1	10059.5	10158.6	10217.9
20°	13137.0	12309.1	11060.9	10603.8	10134.9	9502.2	8520.1	8250.7	8072.8	8069.6	8098.7
22.5°	13073.4	11854.2	11062.0	10347.3	9327.5	8063.1	7638.4	7391.5	6976.5	6089.4	6017.1
25°	13658.7	12257.4	11125.6	9816.9	8041.5	7400.1	6817.0	6337.3	5289.5	5124.6	5118.1
27.5°	14360.5	12801.8	11211.8	8672.1	7527.3	6661.7	5920.1	4761.3	4259.0	4187.8	4163.1
30°	15172.2	13443.2	10685.7	8305.6	6979.7	5802.6	4819.5	3656.4	3247.9	3223.1	3229.5
32.5°	16189.8	14175.1	10137.1	8003.8	6316.8	4807.7	3286.7	2788.7	2554.7	2299.3	2381.2
35°	17274.2	13753.6	10464.8	7630.8	5486.8	3615.5	2496.5	2215.2	2025.5	1694.5	1559.8
37.5°	16847.3	14043.6	10845.3	7221.2	4449.8	2451.3	1931.7	1688.1	1510.2	1234.3	1228.9
40°	17373.4	14873.6	11116.9	6561.5	3217.7	1738.7	1407.8	1306.5	1224.6	1071.5	1049.9
42.5°	18302.6	15598.0	11301.3	5715.3	1923.1	1293.5	1201.9	1217.0	1145.9	1028.4	1014.4
45°	19217.7	16231.8	11127.7	4425.0	1367.9	1166.3	1171.7	1165.3	1079.0	1035.9	1020.8
47.5°	20051.0	16767.6	10639.4	2919.1	1186.8	1137.2	1149.1	1120.0	1023.0	998.2	996.0
50°	20766.8	17333.5	8424.2	2236.8	1141.6	1098.4	1124.3	1076.9	909.8	882.8	854.8
52.5°	21207.6	16392.4	7484.2	1718.3	1094.1	1038.1	1045.6	1084.4	857.0	682.3	639.2
55°	21140.8	14766.9	6958.2	1430.4	1018.7	954.0	969.1	1031.6	775.0	533.6	482.9
57.5°	21458.8	14633.2	6412.7	1217.0	878.5	864.5	834.3	940.0	705.0	353.6	335.2
60°	21407.1	14617.0	5722.9	957.2	776.1	726.5	688.8	765.3	505.6	131.5	119.7
62.5°	21323.0	14202.0	4939.2	858.1	714.7	695.3	662.9	749.2	430.1	91.6	67.9
65°	20901.5	13528.3	4050.9	751.3	667.3	627.4	625.2	709.3	354.6	50.7	22.6
67.5°	19462.4	12061.2	3014.0	692.0	639.2	618.7	656.5	683.4	340.6	51.7	20.5
70°	17673.0	10126.3	1944.6	624.1	599.3	610.1	641.4	691.0	330.9	47.4	18.3
72.5°	14777.7	7833.5	1179.3	557.3	542.2	574.5	632.8	691.0	306.1	39.9	15.1
75°	11242.0	5224.8	877.5	492.6	475.4	516.3	576.7	664.0	300.7	34.5	9.7
77.5°	6979.7	2467.4	692.0	413.9	395.6	437.6	484.0	547.6	305.1	33.4	5.4
80°	2823.2	1030.5	543.3	333.1	310.5	333.1	392.4	466.8	242.5	47.4	0.0
82.5°	1187.9	725.5	444.1	265.2	247.9	218.8	267.3	346.0	190.8	37.7	0.0
85°	785.8	503.4	318.0	180.0	158.5	106.7	130.4	156.3	108.9	0.0	0.0
87.5°	355.7	223.1	139.1	61.4	51.7	29.1	17.2	15.1	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)