

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: P510571

Luminaire Tested: **CTN-CA10-630-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-760-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90746 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

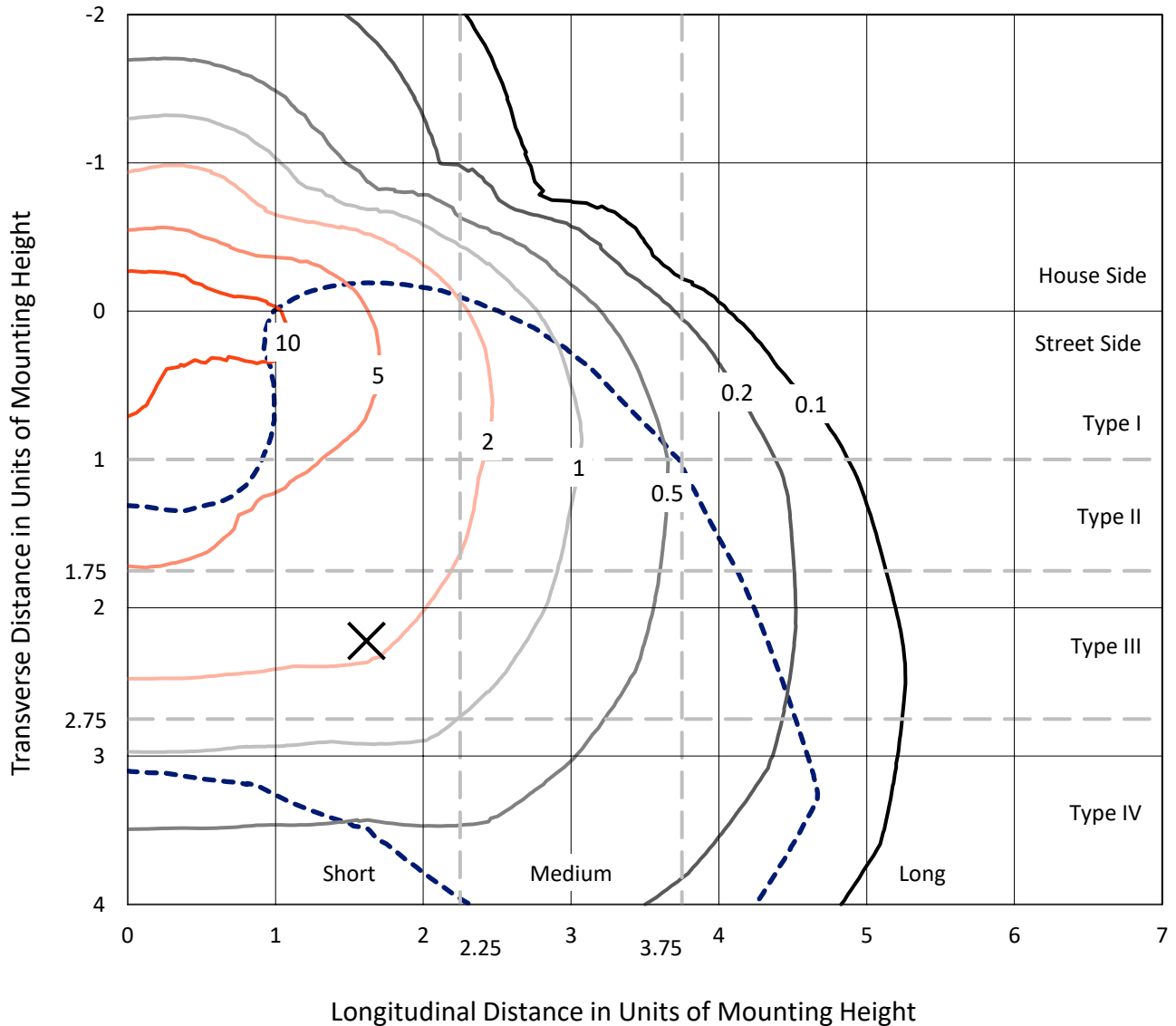
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

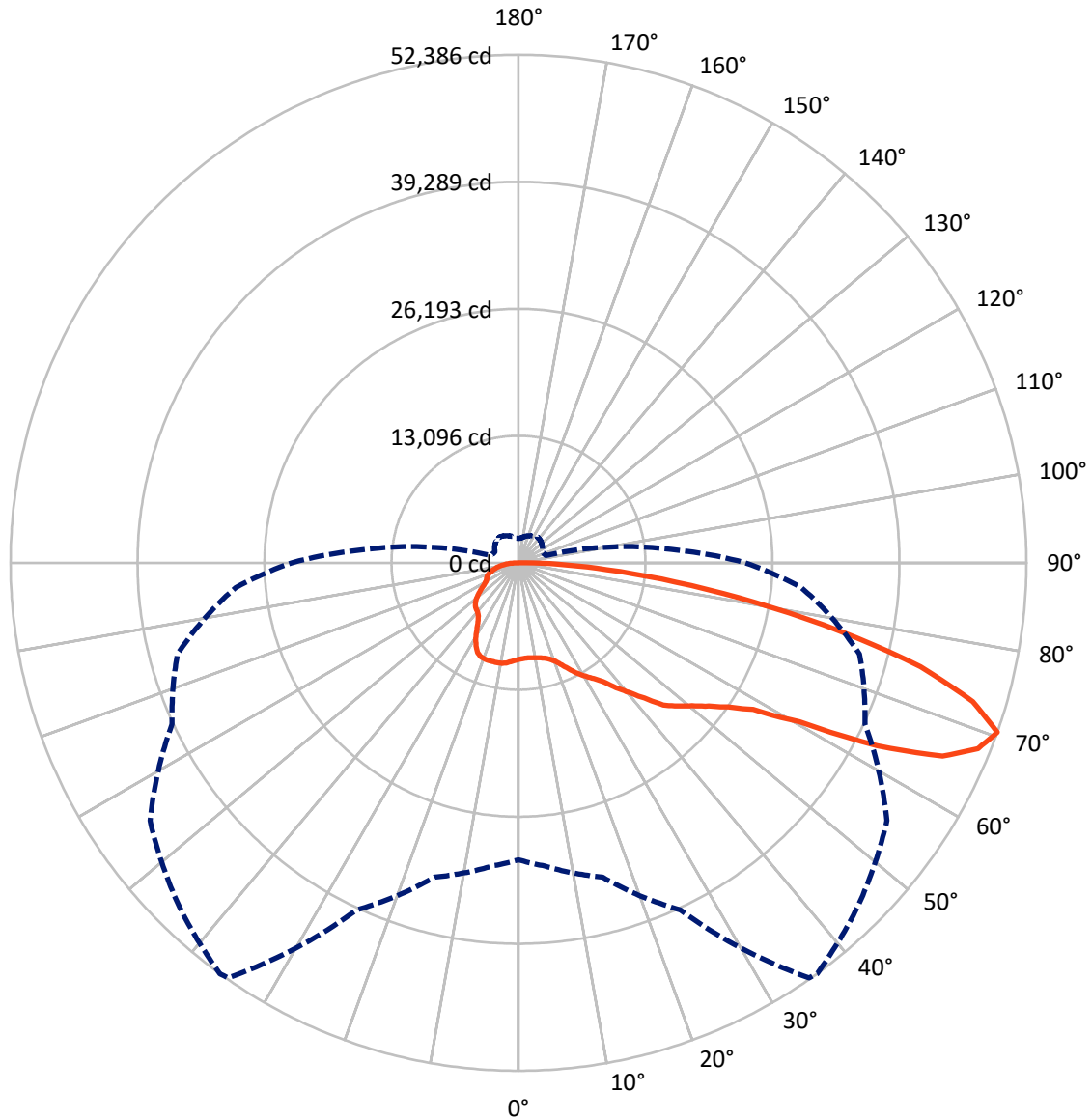
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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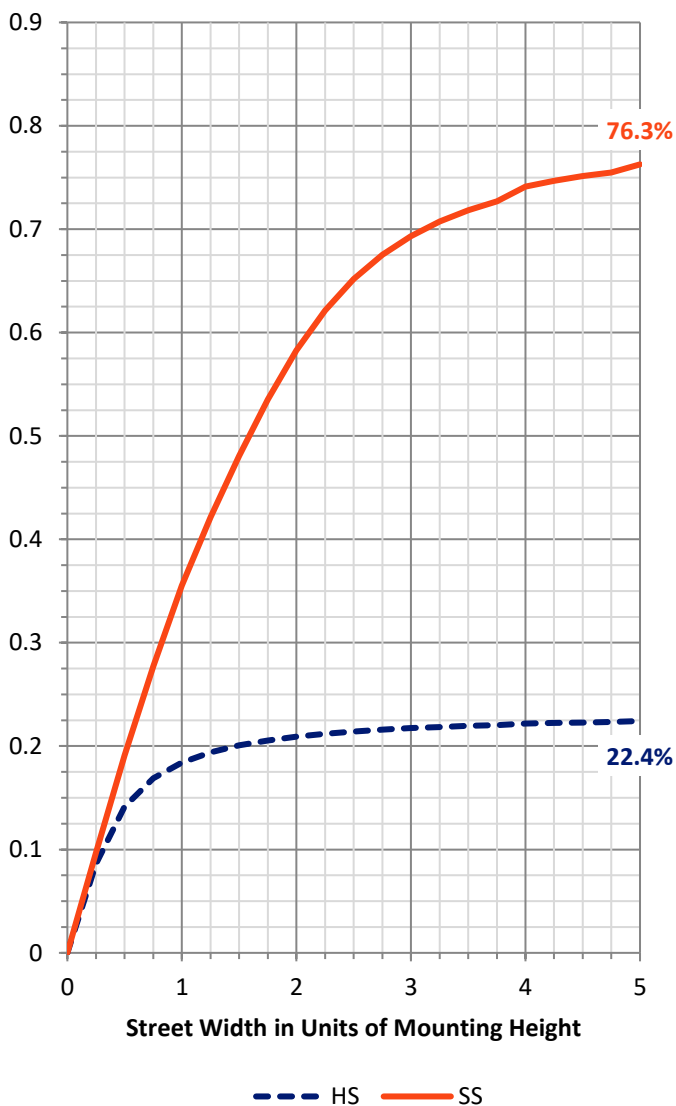
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20675.9	0.0	20675.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	70070.1	0.0	70070.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	90746.0	0.0	90746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	963.0	1.1
10°-20°	2976.9	3.3
20°-30°	5369.8	5.9
30°-40°	8316.8	9.2
40°-50°	12633.2	13.9
50°-60°	17510.4	19.3
60°-70°	22769.6	25.1
70°-80°	16815.1	18.5
80°-90°	3391.2	3.7
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°	90746.0	100.0
0°-180°	90746.0	100.0

Coefficient of Utilization



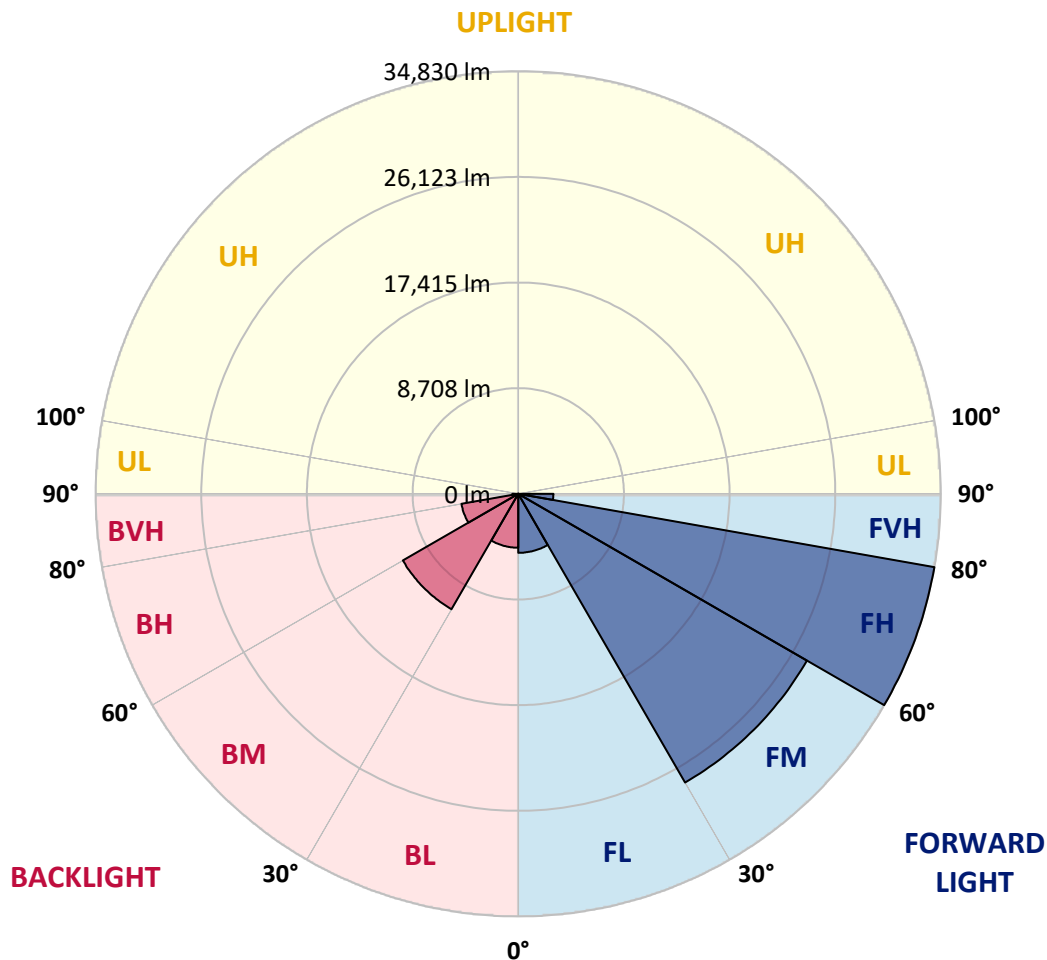
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4864.9	5.4			
FM (30°-60°)	27477.6	30.3			
FH (60°-80°)	34830.3	38.4			G5
FVH (80°-90°)	2897.2	3.2			G5
BL (0°-30°)	4444.8	4.9	B4/5000		
BM (30°-60°)	10982.8	12.1	B5		
BH (60°-80°)	4754.3	5.2	B4/5000		G4/5000
BVH (80°-90°)	494.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4
2.5°	9879.3	9866.1	9858.6	9873.6	9879.3	9881.1	9884.9	9881.1	9871.8	9905.6	9946.9
5°	9881.1	9873.6	9858.6	9845.4	9845.4	9845.4	9847.3	9890.5	9909.3	9905.6	9956.3
7.5°	9896.2	9890.5	9862.4	9853.0	9875.5	9883.0	9920.6	9907.5	9928.1	9961.9	10005.2
10°	9898.1	9890.5	9866.1	9886.8	9950.7	9961.9	9978.8	10016.4	10023.9	10065.3	10108.5
12.5°	9916.8	9916.8	9926.2	9971.3	10039.0	10052.1	10116.0	10146.1	10191.2	10211.8	10264.4
15°	10016.4	10014.5	10037.1	10087.8	10196.8	10204.3	10283.2	10373.4	10407.2	10458.0	10542.5
17.5°	10253.2	10264.4	10266.3	10303.9	10433.5	10437.3	10566.9	10651.5	10728.5	10818.7	11012.2
20°	10815.0	10794.3	10771.7	10771.7	10822.5	10848.8	10948.4	11083.6	11241.5	11401.2	11628.5
22.5°	11521.4	11562.8	11480.1	11436.9	11461.3	11431.2	11506.4	11615.4	11799.5	12038.1	12325.6
25°	12365.1	12368.8	12363.2	12188.4	12134.0	12152.7	12214.7	12316.2	12560.5	12750.2	13167.3
27.5°	13188.0	13171.1	13111.0	12926.8	12874.2	12900.5	12898.7	13178.6	13428.5	13670.9	14161.3
30°	13935.8	13980.9	13873.8	13563.8	13569.4	13565.7	13652.1	14012.9	14469.4	14920.4	15423.9
32.5°	15254.8	15117.6	14973.0	14360.4	14247.7	14234.6	14285.3	14822.7	15499.1	16260.0	16865.0
35°	16496.8	16462.9	16320.1	15698.2	15046.2	15035.0	14965.5	15619.3	16570.0	17979.2	18734.5
37.5°	17766.9	17718.0	17577.1	17047.3	16399.1	16337.1	15752.7	16468.6	17753.7	19989.6	21066.3
40°	19281.3	19251.2	19033.3	18355.0	17689.9	17595.9	16989.0	17361.1	19247.5	22667.1	23426.2
42.5°	20609.7	20604.0	20354.1	19724.7	19159.2	19065.2	18548.5	18935.6	21323.7	25290.0	25737.2
45°	21584.8	21733.3	21744.5	21385.7	20994.9	20912.2	20775.0	21308.6	23724.9	27670.6	27604.8
47.5°	22407.8	22535.6	22402.2	22218.0	22084.6	22090.3	22302.6	23362.3	26096.1	29744.9	29233.8
50°	23783.1	23704.2	23010.9	22901.9	23071.0	23170.6	23786.9	25579.4	28811.1	31691.4	30695.6
52.5°	25767.3	25464.8	24104.4	23882.7	24523.4	24561.0	25541.8	27561.6	31524.2	33361.8	32033.4
55°	28482.3	28232.4	26695.4	25671.4	25994.6	26248.3	27629.3	29592.7	33739.4	34932.5	33063.0
57.5°	32495.6	32514.4	31261.2	29352.2	28253.1	28523.6	29602.1	31567.4	35569.5	36247.8	33705.6
60°	35712.3	36307.9	35934.0	35062.2	33483.9	33299.8	32478.7	33624.8	37132.7	37365.7	34320.0
62.5°	37942.6	38213.1	39498.3	39682.4	41486.2	41563.2	37630.7	36035.5	38850.1	38098.5	34449.7
65°	37829.8	37997.0	40028.1	42500.8	47829.3	48068.0	45766.3	39682.4	40026.3	38425.4	34072.0
67.5°	35195.6	35447.4	38029.0	42651.1	51209.5	51119.3	49659.4	44759.2	40413.3	37901.2	32272.0
70°	30620.5	31396.5	33564.7	39481.4	52265.4	52385.7	49695.1	46380.7	39415.6	36418.8	29271.4
72.5°	25237.4	25481.7	27529.7	34150.9	49178.4	49001.8	47658.4	44240.6	37611.9	33737.6	24019.9
75°	19193.0	19193.0	21673.1	27215.9	42232.1	42852.1	43374.5	40069.5	33320.5	27497.7	16355.8
77.5°	12740.8	13197.4	15194.7	20451.9	33429.4	33887.9	35691.6	34154.7	27281.7	20164.4	7470.5
80°	6758.4	6814.8	8956.7	13590.1	23910.9	24775.2	27255.4	26342.2	19623.3	9447.1	1888.3
82.5°	2363.7	2579.7	3938.2	7876.4	15754.6	16293.8	18080.7	15653.1	6931.3	2091.2	1044.7
85°	1174.3	1215.6	1734.2	3750.3	8870.3	9131.5	10563.2	6097.0	1116.1	913.1	710.2
87.5°	565.5	578.7	665.1	1341.5	3855.5	4034.0	4270.7	1984.1	413.4	347.6	308.1
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°	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4	9939.4
2.5°	9956.3	9973.2	10005.2	10014.5	9992.0	10033.3	10072.8	10108.5	10106.6	10119.8	10166.7
5°	9978.8	10014.5	10048.4	10108.5	10166.7	10200.6	10232.5	10262.6	10272.0	10300.1	10328.3
7.5°	10048.4	10084.1	10161.1	10266.3	10270.1	10354.6	10409.1	10418.5	10426.0	10426.0	10491.8
10°	10155.5	10221.2	10345.2	10418.5	10484.3	10456.1	10512.5	10476.8	10450.5	10461.7	10506.8
12.5°	10339.6	10397.8	10576.3	10657.1	10597.0	10585.7	10529.4	10448.6	10356.5	10347.1	10388.5
15°	10628.9	10737.9	10897.6	10974.7	10824.4	10691.0	10501.2	10335.8	10157.3	10091.6	10117.9
17.5°	11094.9	11226.4	11401.2	11348.6	11074.2	10811.2	10497.4	10148.0	9802.2	9561.7	9623.7
20°	11777.0	11874.7	12017.5	11805.1	11404.9	10970.9	10456.1	9903.7	9319.4	8881.6	8830.8
22.5°	12492.8	12641.3	12554.8	12162.1	11637.9	11032.9	10369.7	9548.6	8644.8	8096.2	8013.5
25°	13355.2	13404.1	13105.3	12513.5	11703.7	10935.2	10089.7	9030.0	7955.3	7438.6	7414.1
27.5°	14270.3	14159.4	13603.3	12675.1	11630.4	10645.9	9527.9	8210.8	7331.5	6874.9	6803.5
30°	15303.7	15046.2	14014.7	12692.0	11354.2	10082.2	8817.7	7570.1	6824.2	6365.7	6292.4
32.5°	16633.9	16027.0	14396.1	12517.2	10771.7	9255.5	7964.7	7023.3	6367.6	5907.3	5841.5
35°	18334.3	17310.3	14800.1	12201.6	10054.0	8428.8	7258.2	6559.2	5997.5	5443.2	5354.9
37.5°	20294.0	19100.9	15283.0	11803.3	9266.7	7701.6	6781.0	6264.3	5723.1	5095.6	4990.4
40°	22571.3	20893.4	16027.0	11327.9	8560.3	7177.4	6549.9	6162.8	5570.9	4917.1	4796.8
42.5°	24544.1	22789.2	16912.0	10816.8	7893.3	6741.5	6446.5	6095.2	5475.1	4783.7	4646.5
45°	26368.5	24354.3	17776.3	10196.8	7190.6	6442.8	6322.5	5926.1	5306.0	4618.3	4475.5
47.5°	27851.0	25618.8	18527.9	9627.5	6628.8	6168.4	6051.9	5604.8	5022.3	4419.2	4314.0
50°	28989.6	26569.6	18939.3	9174.7	6035.0	5856.5	5702.5	5242.1	4682.2	4161.8	4071.6
52.5°	30154.5	27522.2	19142.3	9197.2	5482.6	5392.4	5234.6	4840.1	4411.7	4011.5	3913.8
55°	30832.8	27913.0	18928.1	8650.5	4975.3	4870.1	4733.0	4528.2	4272.6	3917.5	3825.4
57.5°	31229.2	28155.3	18276.1	7055.3	4364.7	4265.1	4287.7	4270.7	4060.3	3686.4	3601.9
60°	31514.8	27629.3	16940.2	5185.8	3844.2	3769.1	3955.1	3895.0	3712.7	3421.5	3350.1
62.5°	31283.7	26627.8	14535.2	3898.7	3419.6	3579.3	3742.8	3631.9	3383.9	3119.0	3036.3
65°	29874.5	24662.5	11047.9	3132.1	3282.4	3502.3	3633.8	3455.3	3203.5	2889.8	2852.2
67.5°	27309.8	21100.1	6516.0	2871.0	3179.1	3412.1	3521.1	3284.3	3062.6	2762.0	2716.9
70°	23396.1	15795.9	2910.4	2673.7	2998.7	3229.8	3301.2	3077.6	2837.1	2555.3	2510.2
72.5°	17413.7	9524.2	1961.6	2468.9	2731.9	2936.7	3015.6	2778.9	2607.9	2480.2	2467.0
75°	9670.7	3306.9	1809.4	2235.9	2440.7	2624.8	2722.5	2555.3	2420.0	2245.3	2173.9
77.5°	3079.5	1405.4	1719.2	1999.2	2258.4	2410.6	2395.6	2143.8	2100.6	1888.3	1869.5
80°	1228.8	1225.0	1589.6	1636.5	1927.8	2055.5	2021.7	1704.2	1760.5	1636.5	1587.7
82.5°	963.9	1121.7	1273.9	1249.5	1499.4	1649.7	1602.7	1251.3	1414.8	1300.2	1189.3
85°	732.8	982.7	817.3	813.6	1046.5	1225.0	1255.1	962.0	963.9	877.4	781.6
87.5°	377.7	362.6	313.8	311.9	349.5	497.9	610.6	546.8	432.1	325.1	311.9
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)