

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: P510547

Luminaire Tested: **CTN-CA10-630-740-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-740-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 91590 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

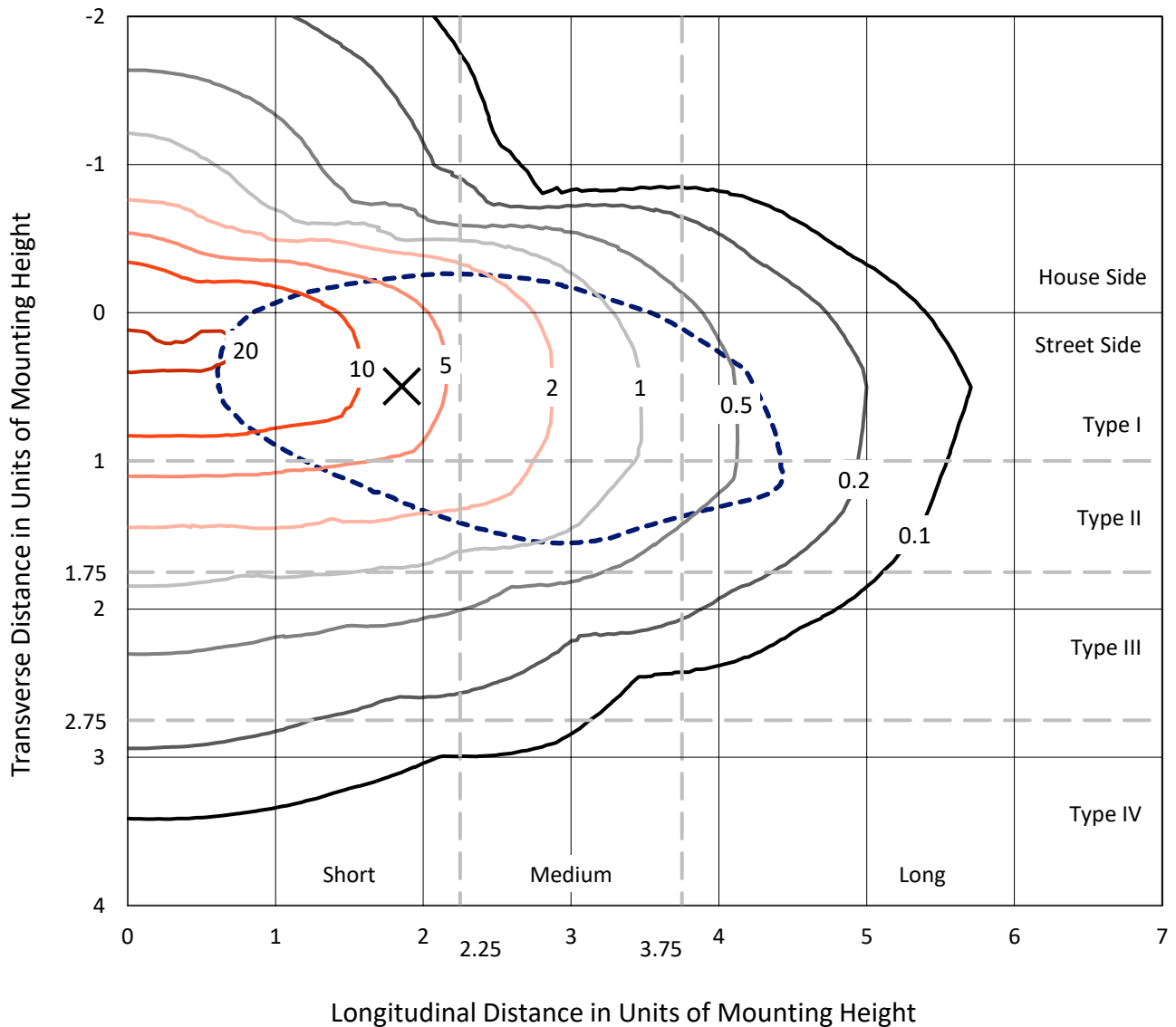
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

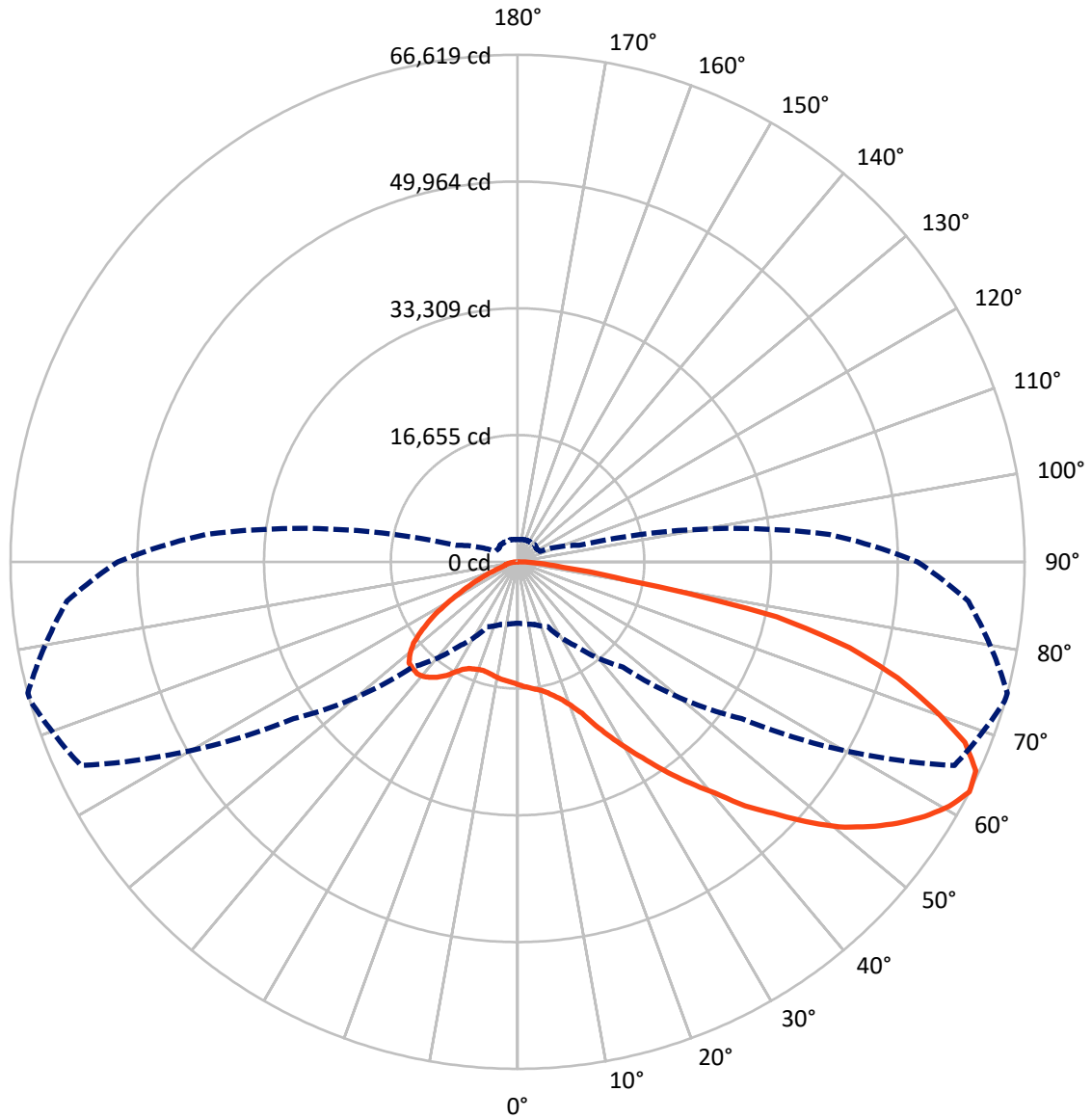
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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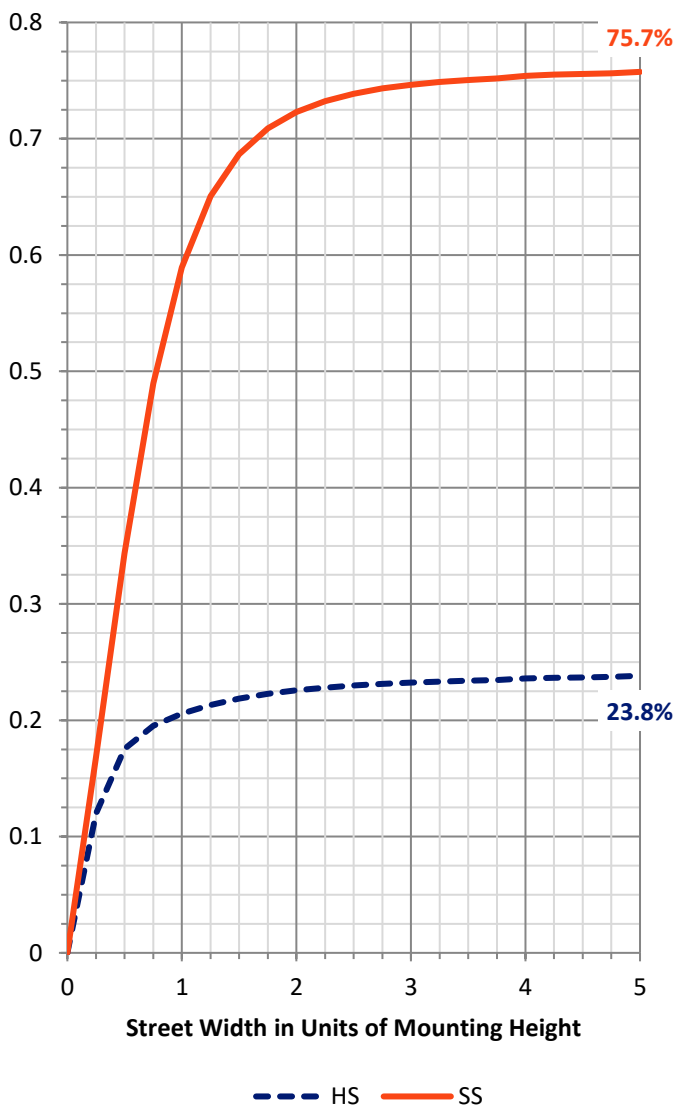
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22190.6	0.0	22190.6
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	69399.4	0.0	69399.4
	% Fixture	75.8	0.0	75.8
Total	Lumens	91590.0	0.0	91590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1553.2	1.7
10°-20°	4713.9	5.1
20°-30°	8130.3	8.9
30°-40°	11988.3	13.1
40°-50°	15803.2	17.3
50°-60°	18599.0	20.3
60°-70°	18504.2	20.2
70°-80°	10791.1	11.8
80°-90°	1506.7	1.6
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°	91590.0	100.0
0°-180°	91590.0	100.0

Coefficient of Utilization



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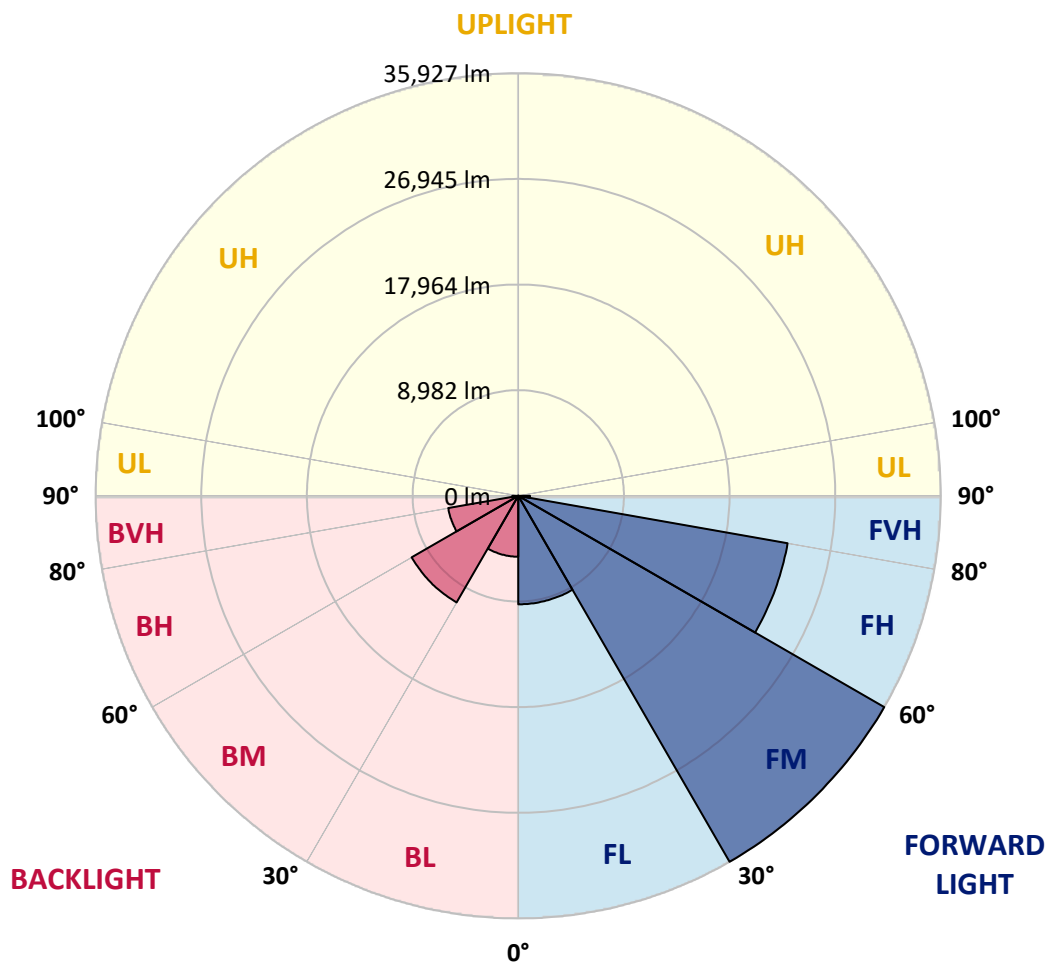
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9222.7	10.1			
FM (30°-60°)	35927.0	39.2			
FH (60°-80°)	23249.8	25.4			G5
FVH (80°-90°)	999.9	1.1			G5
BL (0°-30°)	5174.7	5.6	B5		
BM (30°-60°)	10463.5	11.4	B5		
BH (60°-80°)	6045.5	6.6	B5		G5
BVH (80°-90°)	506.9	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2
2.5°	17029.3	16959.6	16969.0	16920.0	16846.5	16791.8	16648.5	16494.0	16401.6	16394.0	16262.1
5°	17885.1	17907.7	17913.4	17756.9	17602.3	17427.0	17208.4	16910.5	16667.4	16629.7	16373.3
7.5°	18665.5	18663.6	18652.3	18565.6	18494.0	18233.8	17796.5	17329.0	16933.2	16897.3	16480.8
10°	19464.8	19459.1	19346.0	19200.8	19038.7	18799.3	18424.2	17864.4	17223.5	17176.3	16580.7
12.5°	20335.6	20273.4	20201.8	20026.5	19834.2	19419.5	19025.5	18416.7	17747.5	17662.7	16757.9
15°	21053.8	20989.7	20889.8	20771.1	20569.4	20252.7	19834.2	19112.3	18394.1	18311.1	17155.6
17.5°	21764.5	21734.3	21662.7	21536.4	21381.8	21108.5	20723.9	20111.3	19170.7	19068.9	17817.2
20°	22347.0	22275.3	22222.5	22281.0	22294.2	22092.5	21881.4	21366.7	20330.0	20173.5	18629.7
22.5°	22678.7	22663.6	22952.0	23166.9	23253.6	23298.9	23232.9	22818.2	21879.5	21606.1	19760.7
25°	22993.5	22969.0	23361.1	23898.3	24409.2	24669.3	24844.6	24899.3	24037.8	23790.9	21579.7
27.5°	23002.9	23070.8	23640.1	24541.1	25319.6	26113.2	26953.9	27050.1	26294.2	26098.1	23649.5
30°	23053.8	23084.0	23647.6	24682.5	26303.6	27576.0	28671.2	29212.2	28560.0	28469.5	25928.5
32.5°	22407.3	22446.9	23323.4	24929.4	27046.3	29089.7	30543.0	31346.1	31183.9	31069.0	28360.2
35°	21734.3	21768.3	22786.2	24578.8	27598.6	30463.9	32233.9	33811.7	34107.6	34020.9	31072.7
37.5°	20678.7	20791.8	21858.7	24160.3	27694.8	31474.2	33847.5	36267.9	37161.4	36901.2	33941.7
40°	19532.6	19615.6	20857.8	23283.8	27587.3	32137.8	35432.8	38986.1	40068.1	39928.6	36790.0
42.5°	18084.9	18307.3	19551.5	22164.1	27035.0	32550.6	36899.3	42068.1	43640.2	43826.8	39406.4
45°	16865.3	16859.6	18015.2	20543.0	26034.1	32648.6	38249.0	45184.0	47483.7	47133.1	42865.4
47.5°	15430.8	15489.2	16695.7	18929.4	24558.1	32337.6	39300.9	48867.3	51195.4	51005.0	45702.4
50°	12111.3	12531.6	14816.3	17542.0	22561.8	31470.5	40177.4	52454.5	54677.0	54763.7	48281.1
52.5°	10441.1	10603.3	11864.3	16145.2	20789.9	30015.2	41138.8	56490.4	58041.8	57821.2	51208.5
55°	9772.0	9858.7	10463.8	13636.3	19076.4	27762.6	41600.6	60175.6	60665.7	60629.9	53617.6
57.5°	9287.5	9353.5	9783.3	11379.9	17195.2	24871.0	41210.4	62573.4	63334.9	63101.2	55890.9
60°	8588.2	8640.9	9281.9	10254.5	15259.3	21951.1	38810.7	63661.0	65270.8	65184.1	57900.4
62.5°	8062.2	8152.7	8510.9	9423.2	13606.1	19545.8	35951.2	63321.7	66541.3	66618.6	59434.8
65°	7506.2	7587.2	7890.7	8688.1	12107.5	17964.3	32867.3	61621.4	65957.0	66162.4	59683.6
67.5°	6820.0	6882.2	7242.3	7932.2	10356.3	16382.7	29389.4	58614.8	62714.7	63376.4	57206.7
70°	5956.7	5979.3	6420.4	6889.8	8599.5	13998.2	23368.6	53693.0	58022.9	58036.1	52529.9
72.5°	4740.8	4759.7	4876.6	5232.8	6460.0	11078.3	17176.3	44863.6	52318.8	52222.7	46686.4
75°	3223.4	3389.3	3794.6	4133.9	4659.8	7779.5	10682.4	30226.4	44326.3	45080.3	38348.9
77.5°	2546.7	2561.7	2729.5	3040.5	3494.8	5811.5	5986.8	16723.9	33046.3	34839.0	30143.4
80°	1775.7	1802.1	1711.6	1787.0	2437.3	3977.4	3498.6	7278.1	13781.4	14714.5	18098.1
82.5°	846.4	876.5	1006.6	935.0	1212.1	1690.9	1847.3	3760.6	5952.9	6109.4	7046.2
85°	558.0	558.0	559.9	529.7	706.9	737.0	838.8	1604.2	2906.7	3004.7	2987.8
87.5°	179.1	197.9	192.3	224.3	271.4	245.1	256.4	503.3	997.2	987.8	825.6
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°	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2	16145.2
2.5°	16167.8	16090.6	15909.6	15751.3	15594.8	15476.0	15374.3	15238.5	15174.4	15116.0	15238.5
5°	16215.0	16077.4	15753.1	15428.9	15131.1	14912.4	14778.6	14680.6	14592.0	14592.0	14633.4
7.5°	16269.6	16083.0	15619.3	15159.4	14712.6	14463.8	14273.4	14149.0	14077.4	14081.1	14169.7
10°	16305.5	16018.9	15466.6	14846.4	14360.1	13960.5	13773.9	13594.8	13459.1	13378.0	13468.5
12.5°	16346.9	15998.2	15261.1	14561.8	13969.9	13517.5	13129.2	12995.4	12863.4	12761.6	12810.6
15°	16603.3	16077.4	15089.6	14199.9	13513.7	12950.1	12441.2	12196.1	12158.4	12088.7	12105.6
17.5°	17021.8	16290.4	14978.4	13756.9	12965.2	12299.8	11655.1	11338.4	11263.0	11227.2	11246.0
20°	17645.7	16695.7	15012.3	13445.9	12346.9	11602.3	10769.1	10397.8	10147.1	10162.2	10235.7
22.5°	18599.5	17349.8	15197.1	13104.7	11677.7	10701.3	9860.6	9355.4	9102.8	9048.1	9131.1
25°	20118.9	18403.5	15400.6	12778.6	11031.2	9728.6	8797.4	8250.7	7926.5	7905.8	7998.2
27.5°	22066.1	20018.9	15843.6	12495.8	10228.1	8559.9	7634.3	7166.9	6821.9	6780.4	6750.3
30°	24058.6	21813.5	16644.8	12066.0	9291.3	7353.5	6548.6	6182.9	5796.4	5640.0	5673.9
32.5°	26169.8	23485.5	17583.5	11764.4	8243.2	6292.2	5592.9	5244.1	4889.8	4663.5	4610.8
35°	28296.1	25148.1	18373.3	11313.9	7249.8	5449.6	4780.4	4420.4	4111.2	3926.5	3913.3
37.5°	30784.3	26878.5	19006.7	10835.1	6218.7	4789.8	3984.9	3777.6	3628.7	3466.6	3483.5
40°	33276.3	28895.5	19513.8	10043.4	5362.9	4081.1	3391.2	3432.6	3464.7	3329.0	3317.6
42.5°	35346.1	30590.2	19745.6	9018.0	4605.1	3464.7	3129.1	3317.6	3457.1	3368.5	3357.2
45°	37447.9	32017.1	19655.1	7745.6	3975.5	3170.6	3108.4	3300.7	3479.8	3459.0	3449.6
47.5°	39732.5	33887.1	19498.7	6296.0	3525.0	3142.3	3153.6	3244.1	3470.3	3508.0	3492.9
50°	42526.1	35608.1	18573.1	4902.9	3306.3	3187.6	3255.4	3208.3	3400.6	3477.9	3491.1
52.5°	45306.5	36933.3	17334.7	4248.8	3219.6	3230.9	3396.8	3236.6	3321.4	3389.3	3451.5
55°	47451.7	38282.9	15330.9	3854.9	3191.3	3251.7	3436.4	3296.9	3295.0	3295.0	3315.8
57.5°	49647.7	40090.7	13327.1	3600.4	3142.3	3274.3	3389.3	3308.2	3281.8	3244.1	3219.6
60°	51176.5	40759.9	10752.2	3432.6	3091.4	3242.2	3257.3	3246.0	3165.0	3129.1	3100.9
62.5°	52533.7	41123.7	8371.4	3240.4	3021.7	3166.8	3087.7	3063.2	3016.0	2929.3	2944.4
65°	52169.9	40343.3	6378.9	3023.6	2972.7	3076.4	2938.8	2880.3	2884.1	2793.6	2823.8
67.5°	49828.7	36842.8	4580.6	2691.8	2838.8	2897.3	2769.1	2725.7	2661.7	2616.4	2657.9
70°	45099.2	32659.9	3089.6	2233.8	2533.5	2659.8	2574.9	2499.5	2399.6	2369.5	2414.7
72.5°	37958.7	27263.1	2132.0	1796.4	2186.6	2350.6	2318.6	2241.3	2169.7	2243.2	2331.8
75°	31183.9	20169.8	1739.9	1472.2	1681.4	1958.5	2052.8	2075.4	2290.3	3006.6	3080.1
77.5°	22446.9	12503.4	1564.6	1197.0	1342.1	1566.5	1755.0	1832.2	2797.4	2678.6	2673.0
80°	13087.7	7287.5	1193.2	944.4	1085.8	1148.0	1372.3	2150.8	2412.8	2069.8	2018.9
82.5°	5971.8	3215.8	831.3	755.9	754.0	759.7	935.0	2069.8	1851.1	1630.5	1570.2
85°	2196.1	1131.0	505.2	437.3	501.4	435.4	612.6	1517.4	1072.6	1055.6	880.3
87.5°	541.0	231.9	171.5	143.3	116.9	111.2	186.6	499.5	262.0	239.4	230.0
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)