

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: P510401

Luminaire Tested: **CTN-CA10-210-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510401
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-CA10-210-722-U-T4
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: 28066 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

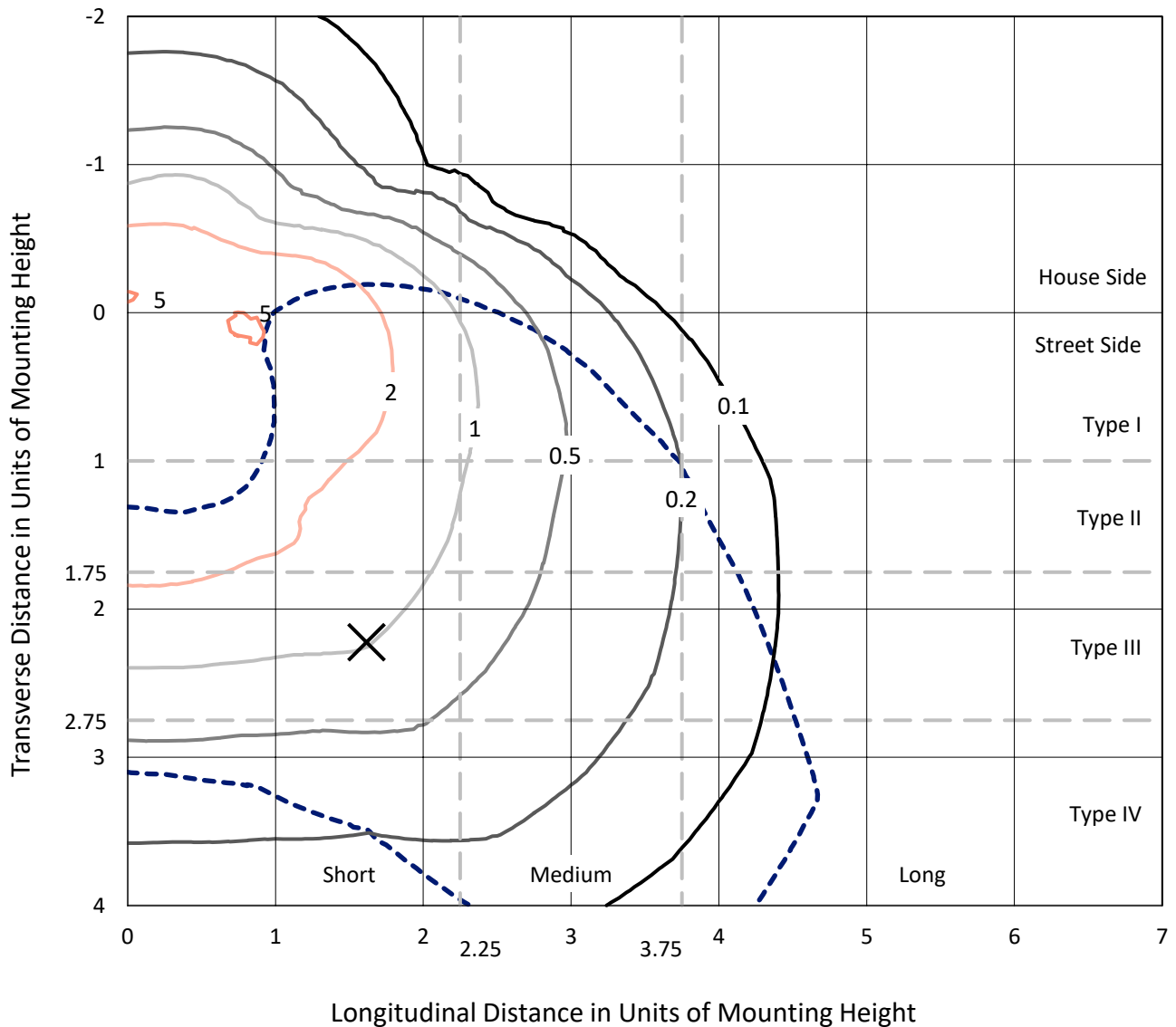
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

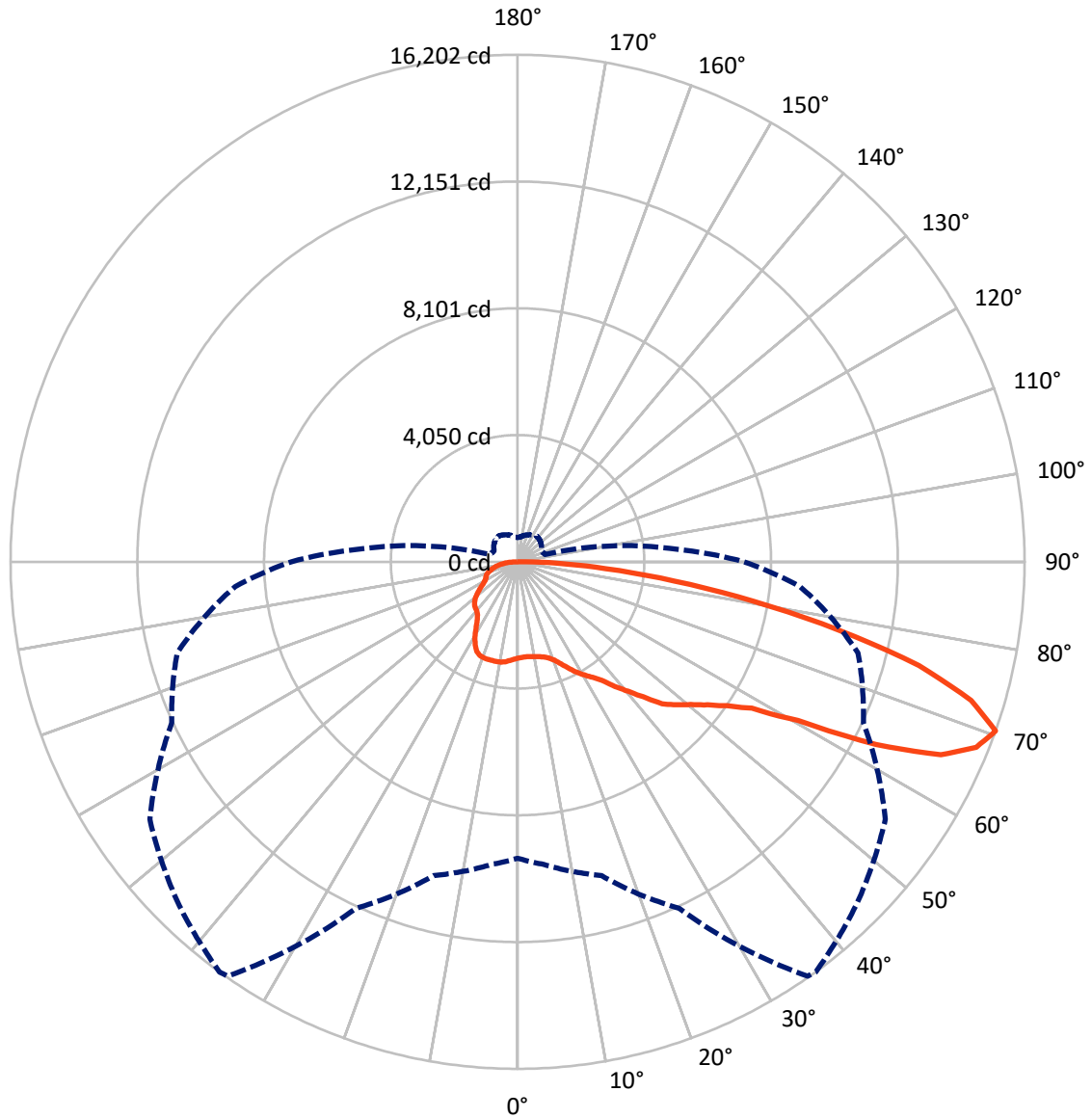
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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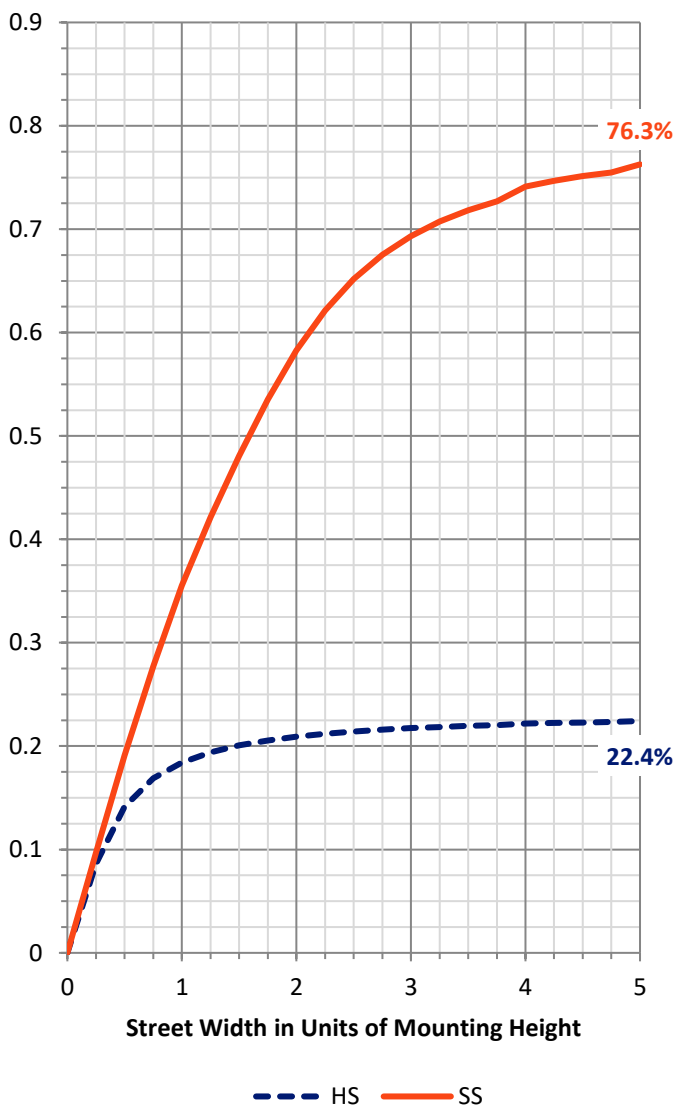
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6394.7	0.0	6394.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	21671.3	0.0	21671.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	28066.0	0.0	28066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	1.1
10°-20°	920.7	3.3
20°-30°	1660.8	5.9
30°-40°	2572.2	9.2
40°-50°	3907.2	13.9
50°-60°	5415.6	19.3
60°-70°	7042.2	25.1
70°-80°	5200.6	18.5
80°-90°	1048.8	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°	28066.0	100.0
0°-180°	28066.0	100.0

Coefficient of Utilization

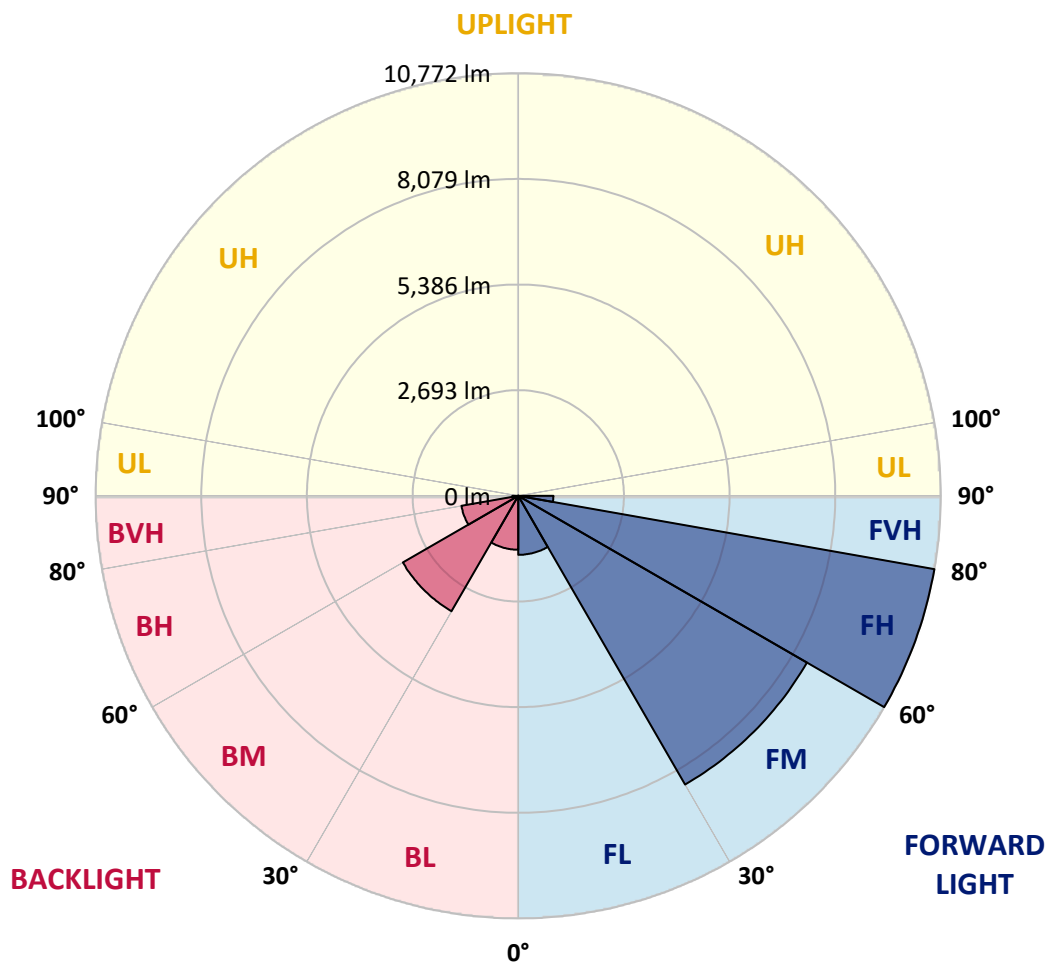


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.6	5.4			
FM (30°-60°)	8498.3	30.3			
FH (60°-80°)	10772.4	38.4			G4/12000
FVH (80°-90°)	896.0	3.2			G5
BL (0°-30°)	1374.7	4.9	B3/2500		
BM (30°-60°)	3396.8	12.1	B3/5000		
BH (60°-80°)	1470.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	152.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1
2.5°	3055.5	3051.4	3049.1	3053.7	3055.5	3056.0	3057.2	3056.0	3053.1	3063.6	3076.4
5°	3056.0	3053.7	3049.1	3045.0	3045.0	3045.0	3045.6	3059.0	3064.8	3063.6	3079.3
7.5°	3060.7	3059.0	3050.2	3047.3	3054.3	3056.6	3068.3	3064.2	3070.6	3081.0	3094.4
10°	3061.3	3059.0	3051.4	3057.8	3077.6	3081.0	3086.3	3097.9	3100.2	3113.0	3126.4
12.5°	3067.1	3067.1	3070.0	3083.9	3104.9	3108.9	3128.7	3138.0	3151.9	3158.3	3174.6
15°	3097.9	3097.3	3104.3	3120.0	3153.7	3156.0	3180.4	3208.3	3218.8	3234.4	3260.6
17.5°	3171.1	3174.6	3175.2	3186.8	3226.9	3228.1	3268.2	3294.3	3318.1	3346.0	3405.9
20°	3344.9	3338.5	3331.5	3331.5	3347.2	3355.3	3386.1	3428.0	3476.8	3526.2	3596.5
22.5°	3563.4	3576.1	3550.6	3537.2	3544.8	3535.5	3558.7	3592.4	3649.4	3723.2	3812.1
25°	3824.3	3825.4	3823.7	3769.7	3752.8	3758.6	3777.8	3809.2	3884.7	3943.4	4072.4
27.5°	4078.8	4073.6	4055.0	3998.0	3981.8	3989.9	3989.3	4075.9	4153.2	4228.1	4379.8
30°	4310.1	4324.0	4290.9	4195.0	4196.8	4195.6	4222.3	4333.9	4475.1	4614.6	4770.3
32.5°	4718.0	4675.6	4630.9	4441.4	4406.5	4402.5	4418.2	4584.4	4793.6	5028.9	5216.0
35°	5102.1	5091.7	5047.5	4855.2	4653.5	4650.0	4628.5	4830.8	5124.8	5560.6	5794.2
37.5°	5495.0	5479.9	5436.3	5272.4	5071.9	5052.7	4872.0	5093.4	5490.9	6182.4	6515.4
40°	5963.3	5954.0	5886.6	5676.8	5471.1	5442.1	5254.4	5369.4	5952.9	7010.5	7245.3
42.5°	6374.2	6372.4	6295.1	6100.5	5925.6	5896.5	5736.7	5856.4	6595.0	7821.7	7960.0
45°	6675.8	6721.7	6725.2	6614.2	6493.3	6467.7	6425.3	6590.4	7337.7	8558.0	8537.6
47.5°	6930.3	6969.8	6928.6	6871.6	6830.3	6832.1	6897.8	7225.5	8071.0	9199.5	9041.5
50°	7355.7	7331.3	7116.8	7083.1	7135.4	7166.2	7356.8	7911.2	8910.7	9801.6	9493.6
52.5°	7969.3	7875.8	7455.0	7386.5	7584.6	7596.2	7899.6	8524.3	9749.8	10318.2	9907.3
55°	8809.0	8731.7	8256.4	7939.7	8039.6	8118.1	8545.2	9152.5	10435.0	10804.0	10225.8
57.5°	10050.3	10056.1	9668.5	9078.1	8738.1	8821.8	9155.4	9763.2	11001.0	11210.7	10424.5
60°	11045.1	11229.3	11113.7	10844.1	10355.9	10299.0	10045.0	10399.5	11484.4	11556.5	10614.5
62.5°	11734.9	11818.6	12216.1	12273.0	12830.9	12854.7	11638.4	11145.1	12015.6	11783.1	10654.6
65°	11700.0	11751.8	12379.9	13144.7	14792.7	14866.5	14154.6	12273.0	12379.4	11884.2	10537.8
67.5°	10885.3	10963.2	11761.6	13191.2	15838.1	15810.2	15358.7	13843.2	12499.1	11722.1	9981.1
70°	9470.3	9710.3	10380.9	12210.8	16164.7	16201.9	15369.7	14344.7	12190.5	11263.6	9053.1
72.5°	7805.4	7881.0	8514.4	10562.2	15209.9	15155.3	14739.8	13682.8	11632.6	10434.4	7428.9
75°	5936.0	5936.0	6703.1	8417.4	13061.6	13253.3	13414.9	12392.7	10305.4	8504.5	5058.5
77.5°	3940.5	4081.7	4699.4	6325.4	10339.1	10480.9	11038.7	10563.4	8437.7	6236.5	2310.5
80°	2090.2	2107.7	2770.1	4203.2	7395.2	7662.5	8429.6	8147.1	6069.1	2921.8	584.0
82.5°	731.0	797.9	1218.0	2436.0	4872.6	5039.4	5592.0	4841.2	2143.7	646.8	323.1
85°	363.2	376.0	536.4	1159.9	2743.4	2824.2	3267.0	1885.7	345.2	282.4	219.7
87.5°	174.9	179.0	205.7	414.9	1192.4	1247.6	1320.9	613.7	127.8	107.5	95.3
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°	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1	3074.1
2.5°	3079.3	3084.5	3094.4	3097.3	3090.3	3103.1	3115.3	3126.4	3125.8	3129.9	3144.4
5°	3086.3	3097.3	3107.8	3126.4	3144.4	3154.8	3164.7	3174.0	3176.9	3185.6	3194.4
7.5°	3107.8	3118.8	3142.6	3175.2	3176.3	3202.5	3219.3	3222.2	3224.6	3224.6	3244.9
10°	3140.9	3161.2	3199.6	3222.2	3242.6	3233.9	3251.3	3240.3	3232.1	3235.6	3249.6
12.5°	3197.8	3215.9	3271.1	3296.0	3277.5	3274.0	3256.5	3231.5	3203.1	3200.2	3212.9
15°	3287.3	3321.0	3370.4	3394.3	3347.8	3306.5	3247.8	3196.7	3141.5	3121.1	3129.3
17.5°	3431.4	3472.1	3526.2	3509.9	3425.1	3343.7	3246.7	3138.6	3031.6	2957.3	2976.4
20°	3642.4	3672.6	3716.8	3651.1	3527.3	3393.1	3233.9	3063.0	2882.3	2746.9	2731.2
22.5°	3863.8	3909.7	3883.0	3761.5	3599.4	3412.3	3207.1	2953.2	2673.7	2504.0	2478.4
25°	4130.5	4145.6	4053.2	3870.2	3619.7	3382.1	3120.6	2792.8	2460.4	2300.6	2293.1
27.5°	4413.5	4379.2	4207.2	3920.2	3597.1	3292.6	2946.8	2539.4	2267.5	2126.3	2104.2
30°	4733.1	4653.5	4334.5	3925.4	3511.6	3118.2	2727.1	2341.3	2110.6	1968.8	1946.1
32.5°	5144.6	4956.9	4452.5	3871.3	3331.5	2862.5	2463.3	2172.2	1969.4	1827.0	1806.7
35°	5670.5	5353.8	4577.4	3773.7	3109.5	2606.9	2244.8	2028.6	1854.9	1683.5	1656.2
37.5°	6276.6	5907.5	4726.7	3650.5	2866.0	2382.0	2097.2	1937.4	1770.1	1576.0	1543.4
40°	6980.9	6461.9	4956.9	3503.5	2647.5	2219.8	2025.7	1906.0	1723.0	1520.8	1483.6
42.5°	7591.0	7048.3	5230.6	3345.4	2441.2	2085.0	1993.8	1885.1	1693.4	1479.5	1437.1
45°	8155.3	7532.3	5497.9	3153.7	2223.9	1992.6	1955.4	1832.8	1641.1	1428.4	1384.2
47.5°	8613.8	7923.4	5730.3	2977.6	2050.2	1907.8	1871.8	1733.4	1553.3	1366.8	1334.2
50°	8965.9	8217.5	5857.6	2837.6	1866.5	1811.3	1763.7	1621.3	1448.1	1287.2	1259.3
52.5°	9326.2	8512.1	5920.3	2844.5	1695.7	1667.8	1619.0	1496.9	1364.4	1240.7	1210.4
55°	9536.0	8632.9	5854.1	2675.4	1538.8	1506.2	1463.8	1400.5	1321.4	1211.6	1183.1
57.5°	9658.6	8707.9	5652.4	2182.1	1349.9	1319.1	1326.1	1320.9	1255.8	1140.1	1114.0
60°	9746.9	8545.2	5239.3	1603.9	1188.9	1165.7	1223.2	1204.6	1148.3	1058.2	1036.1
62.5°	9675.5	8235.5	4495.5	1205.8	1057.6	1107.0	1157.6	1123.3	1046.6	964.6	939.1
65°	9239.6	7627.6	3416.9	968.7	1015.2	1083.2	1123.9	1068.7	990.8	893.7	882.1
67.5°	8446.4	6525.8	2015.3	887.9	983.2	1055.3	1089.0	1015.8	947.2	854.2	840.3
70°	7236.0	4885.4	900.1	826.9	927.4	998.9	1021.0	951.9	877.5	790.3	776.4
72.5°	5385.7	2945.6	606.7	763.6	844.9	908.3	932.7	859.5	806.6	767.1	763.0
75°	2991.0	1022.8	559.6	691.5	754.9	811.8	842.0	790.3	748.5	694.4	672.3
77.5°	952.4	434.7	531.7	618.3	698.5	745.6	740.9	663.0	649.7	584.0	578.2
80°	380.0	378.9	491.6	506.1	596.2	635.7	625.3	527.1	544.5	506.1	491.0
82.5°	298.1	346.9	394.0	386.4	463.7	510.2	495.7	387.0	437.6	402.1	367.8
85°	226.6	303.9	252.8	251.6	323.7	378.9	388.2	297.5	298.1	271.4	241.7
87.5°	116.8	112.2	97.0	96.5	108.1	154.0	188.9	169.1	133.7	100.5	96.5
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)