

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: P591139

Luminaire Tested: **CTN-CA10-760-722-U-T3-SSS-HM-EX90**

Issue Date: 1/19/2022

Test Information

Test Method: LM-79-08
Report Number: P591139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-722-U-T3-SSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE, 90D FIELD INSTALLED SHIELD ON STREET SIDE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60136 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

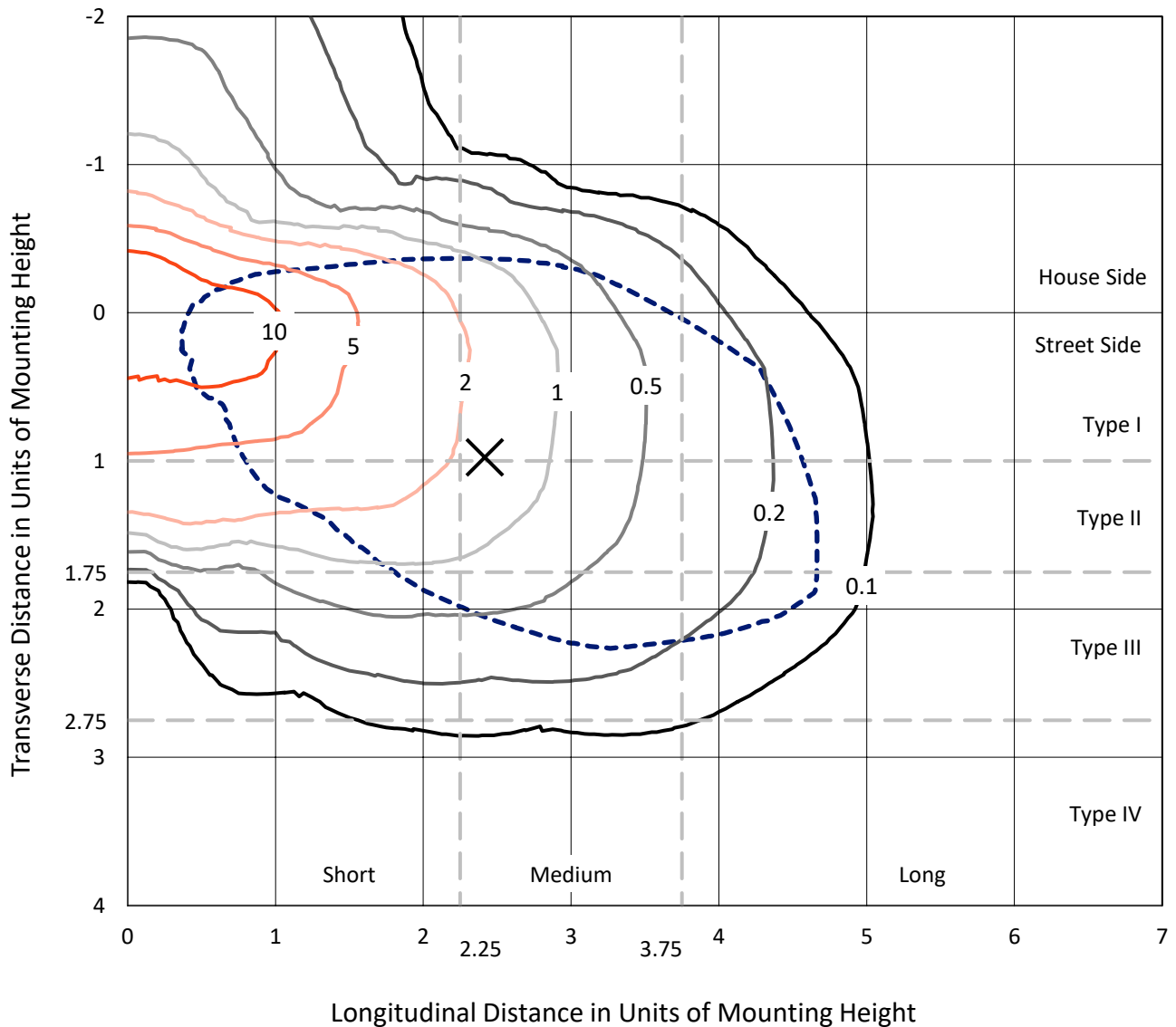
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

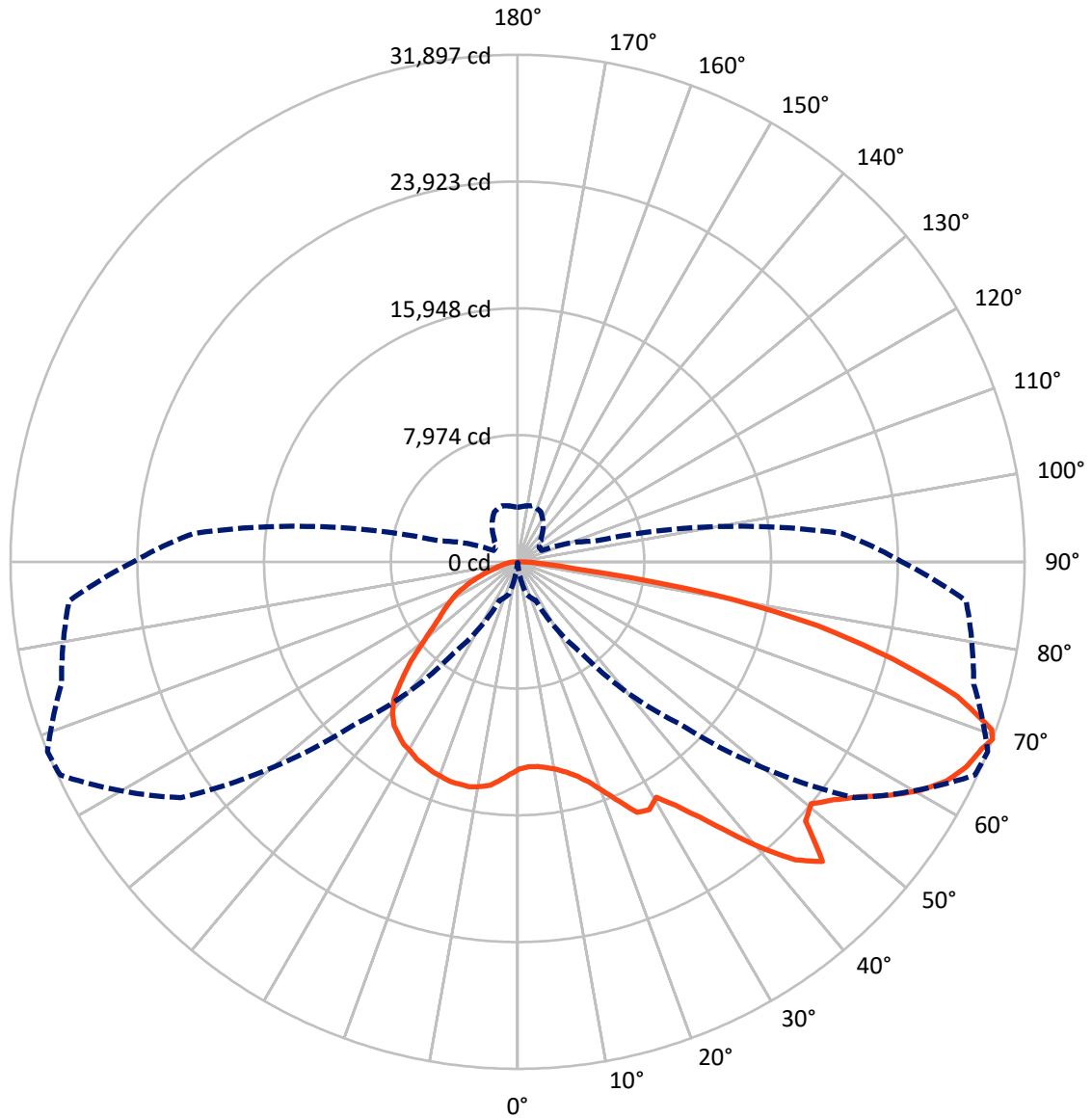
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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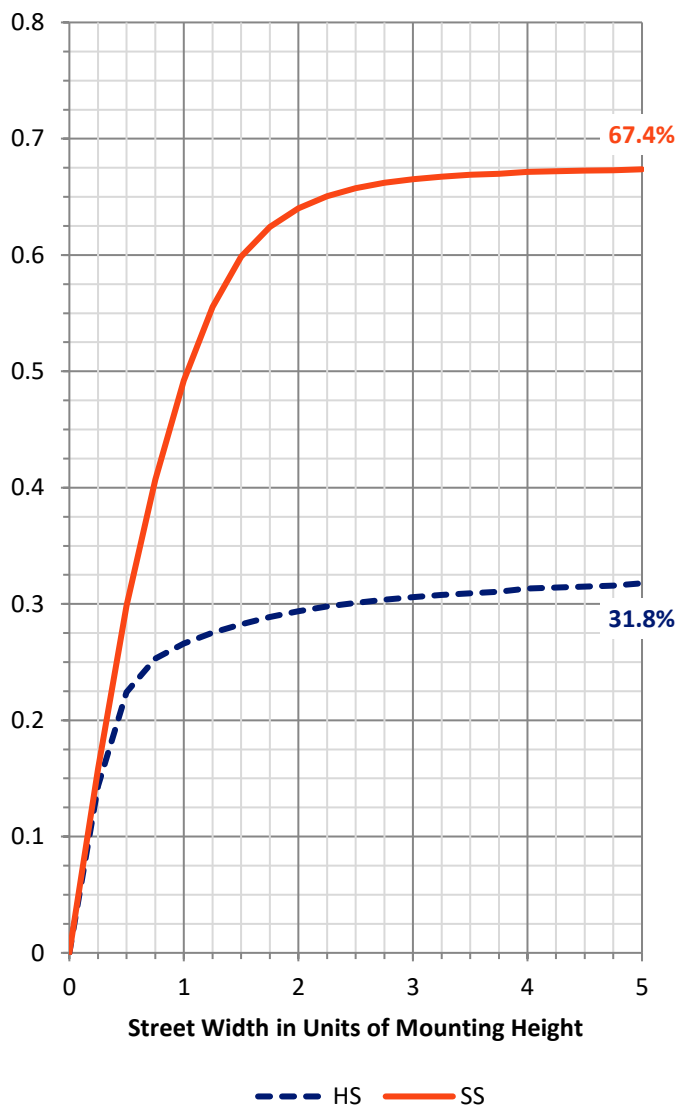
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19615.5	0.0	19615.5
	% Fixture	32.6	0.0	32.6
Street Side	Lumens	40520.5	0.0	40520.5
	% Fixture	67.4	0.0	67.4
Total	Lumens	60136.0	0.0	60136.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.0	2.2
10°-20°	4028.4	6.7
20°-30°	6193.6	10.3
30°-40°	8044.2	13.4
40°-50°	9929.5	16.5
50°-60°	11151.7	18.5
60°-70°	10898.6	18.1
70°-80°	7318.7	12.2
80°-90°	1269.4	2.1
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°	60136.0	100.0
0°-180°	60136.0	100.0

Coefficient of Utilization

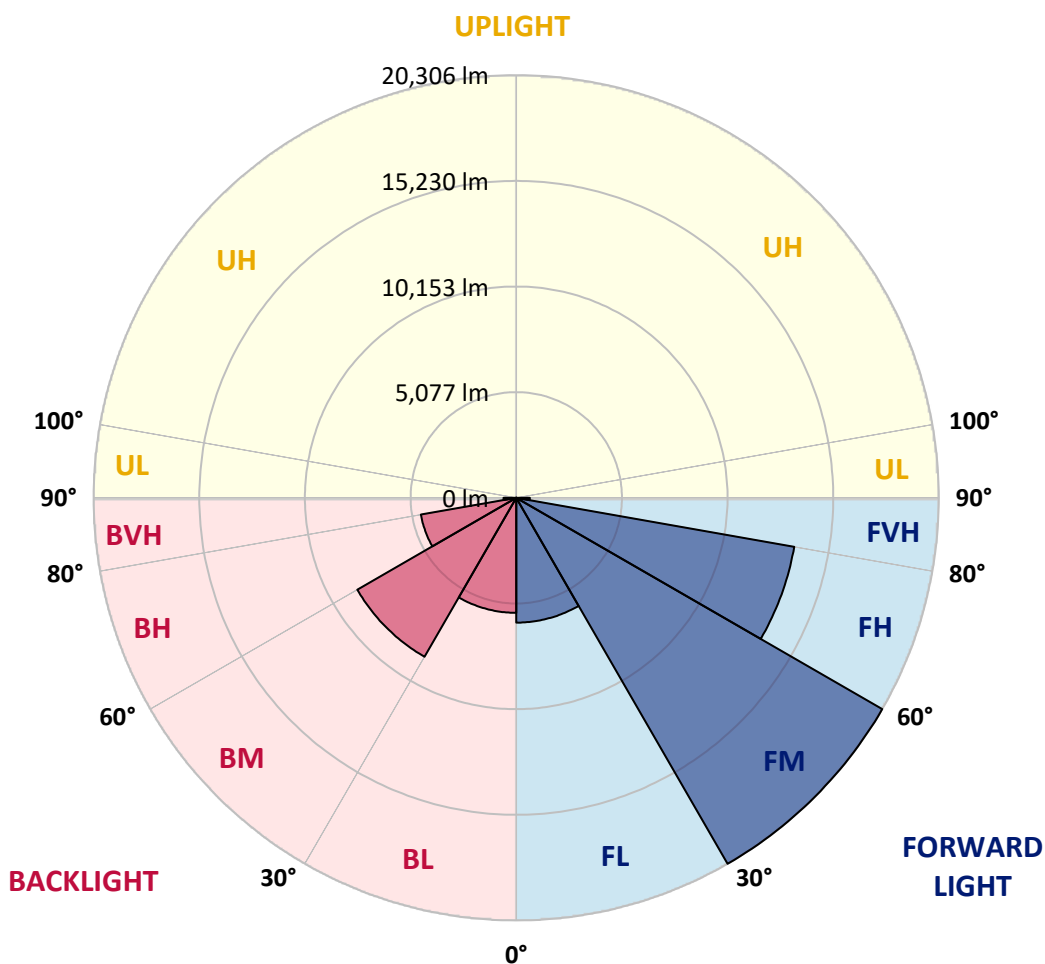


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5996.1	10.0			
FM (30°-60°)	20306.4	33.8			
FH (60°-80°)	13563.7	22.6			G5
FVH (80°-90°)	654.3	1.1			G4/750
BL (0°-30°)	5527.8	9.2	B5		
BM (30°-60°)	8819.0	14.7	B5		
BH (60°-80°)	4653.6	7.7	B4/5000		G4/5000
BVH (80°-90°)	615.1	1.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7
2.5°	12772.7	12694.9	12724.4	12831.8	12614.4	12756.6	12689.5	12834.4	12909.6	12877.4	13081.3
5°	12893.5	12807.6	12813.0	12888.1	12654.7	12775.4	12700.3	12855.9	12939.1	12893.5	13167.2
7.5°	13261.1	13167.2	13140.3	13135.0	12914.9	13006.2	12855.9	12982.0	13067.9	13043.7	13352.3
10°	13824.6	13711.9	13660.9	13631.4	13368.4	13341.6	13153.8	13210.1	13274.5	13301.3	13634.1
12.5°	14444.4	14291.5	14259.3	14170.7	13832.6	13773.6	13545.5	13572.4	13572.4	13634.1	13964.1
15°	14970.4	14844.3	14844.3	14753.0	14423.0	14339.8	14025.8	13993.6	13988.3	14036.6	14331.7
17.5°	14632.3	14562.5	14500.8	14455.2	13945.3	13811.2	14661.8	14605.4	14578.6	14626.9	14798.6
20°	13497.2	13685.1	13287.9	12727.1	12807.6	14423.0	15480.2	15378.2	15394.3	15442.6	15394.3
22.5°	11879.2	11414.9	12144.8	12346.1	12681.5	13875.6	16226.2	16333.5	16365.7	16368.4	16116.2
25°	10180.6	10438.2	11428.4	12963.2	12920.3	13915.8	15772.7	17299.5	17460.5	17444.4	17007.0
27.5°	10669.0	10620.7	11385.4	12394.4	13669.0	14769.1	16051.8	16730.7	17653.7	18676.1	18083.1
30°	11095.6	11055.4	11135.9	12547.3	14162.7	15622.4	17095.6	16985.6	17181.5	19033.0	19352.3
32.5°	11476.7	11447.1	11541.1	11696.7	13341.6	16542.8	18214.5	18193.1	18260.2	18405.1	20849.6
35°	11836.2	11838.9	11954.3	12209.2	13446.2	16733.3	19320.1	19548.2	19725.3	20044.6	20592.0
37.5°	12083.1	12088.5	12179.7	12488.3	13006.2	15791.5	20439.0	21252.1	21568.7	22143.0	21367.5
40°	12080.4	12120.7	12340.7	12743.2	13435.5	15168.9	20785.2	23184.1	23693.9	24112.5	22808.4
42.5°	11828.2	11849.6	12260.2	12987.4	13816.5	15641.2	19709.2	25067.8	25634.0	25518.6	23999.8
45°	11597.4	11592.0	12059.0	12955.2	14157.3	16290.6	19854.1	25014.1	26895.2	26755.6	25094.6
47.5°	11288.8	11296.9	11790.6	12815.7	14468.6	16985.6	20927.4	22746.7	24375.5	27818.2	25985.5
50°	10902.4	10950.7	11452.5	12603.7	14624.2	17634.9	21855.8	23742.2	23935.4	24984.6	26857.6
52.5°	10261.1	10175.2	11090.3	12359.5	14734.2	18107.2	22741.3	24697.5	24880.0	24498.9	27745.8
55°	5825.5	7228.9	10636.8	12075.1	14766.4	18391.6	23428.3	25784.3	26068.7	25709.1	28467.6
57.5°	3660.1	3772.8	9214.6	11321.0	14495.4	18568.7	24270.9	27276.2	27697.5	26841.5	29015.0
60°	1296.1	1398.0	4481.2	5197.6	11881.9	18080.4	25553.5	29033.8	29173.3	27906.8	29417.5
62.5°	136.9	179.8	3037.5	3815.7	9225.3	16685.0	26439.0	30447.9	30321.8	28695.7	29634.9
65°	48.3	67.1	2669.9	3413.2	8586.7	16250.3	26731.5	31051.7	31049.0	29200.2	29479.2
67.5°	37.6	51.0	2321.1	2965.1	7663.6	15319.2	26245.8	31505.1	31462.2	29699.3	29068.7
69°	37.6	53.7	2090.3	2672.6	6995.5	14428.3	25870.1	31744.0	31896.9	29707.3	28325.4
70°	37.6	53.7	1942.7	2468.7	6450.8	13612.6	25330.8	31561.5	31639.3	29449.7	27555.3
72.5°	37.6	53.7	1505.4	1910.5	4905.2	10478.5	22191.3	28760.1	28907.7	27187.6	24764.6
75°	37.6	53.7	1059.9	1390.0	3220.0	7030.4	17669.8	23954.2	24354.0	22977.5	20291.5
77.5°	37.6	53.7	633.3	949.9	2020.6	3858.6	12158.2	18359.4	19263.7	17981.1	14503.5
80°	37.6	51.0	297.9	517.9	1151.2	2044.7	5570.6	11302.2	12480.2	11248.6	7585.8
82.5°	37.6	51.0	244.2	373.0	582.3	1017.0	2176.2	3703.0	3635.9	3265.6	2444.5
85°	34.9	45.6	201.3	273.7	418.6	644.0	1212.9	1508.0	1438.3	1271.9	1280.0
87.5°	24.2	26.8	69.8	123.4	169.1	319.3	587.7	638.6	652.1	544.7	571.6
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°	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7	13035.7
2.5°	13177.9	13194.0	13271.8	13411.4	13408.7	13558.9	13518.7	13867.5	13880.9	13875.6	13902.4
5°	13298.7	13389.9	13561.6	13859.5	14031.2	14256.6	14213.7	14565.2	14586.7	14557.1	14632.3
7.5°	13508.0	13620.7	13902.4	14270.0	14315.6	14600.1	14541.0	14825.5	14812.1	14758.4	14887.2
10°	13803.1	13937.3	14192.2	14401.5	14533.0	14699.4	14635.0	14876.5	14830.8	14771.8	14895.2
12.5°	14103.7	14168.1	14310.3	14546.4	14557.1	14594.7	14519.6	14715.5	14664.5	14575.9	14704.7
15°	14390.8	14398.8	14374.7	14482.0	14369.3	14393.5	14229.8	14353.2	14264.7	14224.4	14307.6
17.5°	14763.8	14667.2	14495.4	14449.8	14184.2	14071.5	13830.0	13824.6	13669.0	13612.6	13669.0
20°	15211.9	15002.6	14605.4	14227.1	13768.2	13537.5	13126.9	13016.9	12890.8	12770.0	12837.1
22.5°	15831.7	15426.5	14742.3	14036.6	13277.2	12823.7	12319.2	12008.0	11771.8	11538.4	11608.1
25°	16537.5	15971.3	14935.5	13711.9	12689.5	11887.2	11232.5	10701.2	10363.1	10022.3	10175.2
27.5°	17492.7	16711.9	15053.6	13470.4	11924.8	10848.8	9804.9	9112.6	8761.1	8516.9	8439.1
30°	18606.3	17669.8	15265.5	12995.4	11025.9	9571.5	8245.9	7473.1	7100.1	6984.7	7033.0
32.5°	19964.1	18834.4	15697.6	12598.3	10113.5	8216.4	6670.8	6067.0	5798.7	5779.9	5774.6
35°	21780.7	20321.0	16067.9	11981.1	8906.0	6635.9	5307.7	4808.6	4797.8	4789.8	4808.6
37.5°	23176.0	21834.4	16462.3	11377.4	7473.1	5181.5	4245.1	3941.8	3909.6	4003.6	4027.7
40°	24276.2	22918.4	17052.7	10357.7	5793.3	3869.4	3260.3	3147.6	3375.6	3582.3	3625.2
42.5°	25269.1	23830.8	17181.5	9271.0	4220.9	2970.5	2702.1	2890.0	3241.5	3477.6	3523.2
45°	26200.2	24788.7	16690.4	7655.6	3018.8	2517.0	2570.6	2852.4	3246.8	3499.1	3525.9
47.5°	27217.2	25430.1	16159.1	6155.6	2482.1	2412.3	2543.8	2865.8	3279.0	3534.0	3547.4
50°	27888.0	25888.9	14830.8	4813.9	2326.5	2347.9	2533.1	2895.3	3284.4	3466.9	3477.6
52.5°	28161.7	26256.5	13628.7	3853.3	2248.6	2299.6	2546.5	2946.3	3271.0	3373.0	3367.6
55°	28333.4	26425.6	12595.6	3206.6	2178.9	2262.1	2570.6	2983.9	3300.5	3405.2	3405.2
57.5°	28223.4	26047.2	11828.2	2731.6	2109.1	2235.2	2600.2	3040.2	3579.6	3764.7	3745.9
60°	28142.9	25338.8	10738.7	2412.3	2025.9	2205.7	2637.7	3236.1	4175.3	4363.1	4301.4
62.5°	27727.0	24740.4	9558.1	2208.4	1932.0	2189.6	2669.9	3499.1	4258.5	4247.7	4127.0
65°	26667.1	23522.2	7695.8	2001.8	1835.4	2168.1	2680.7	3614.5	3917.7	3748.6	3713.7
67.5°	25164.4	21764.6	6072.4	1795.2	1728.1	2122.5	2769.2	3477.6	3727.2	3582.3	3528.6
69°	24182.3	20463.2	5044.7	1666.4	1658.3	2085.0	2804.1	3464.2	3657.4	3493.7	3423.9
70°	23390.7	19336.2	4355.1	1583.2	1604.6	2055.4	2769.2	3461.5	3627.9	3423.9	3346.1
72.5°	19993.6	15665.4	2812.1	1384.6	1446.3	1977.6	2637.7	3373.0	3566.2	3432.0	3324.7
75°	15493.6	11404.2	1819.3	1196.8	1280.0	1846.1	2506.2	3316.6	3622.5	3378.3	3147.6
77.5°	9941.8	6101.9	1408.8	1006.3	1100.2	1661.0	2270.1	3088.5	3517.9	3297.8	3000.0
80°	4330.9	2264.7	1086.8	815.7	890.9	1349.7	1948.1	2745.1	3335.4	3311.2	3110.0
82.5°	1838.1	1459.7	837.2	625.2	708.4	998.2	1526.8	2353.3	2946.3	3061.7	3281.7
85°	1041.1	874.8	558.1	429.3	525.9	735.2	1086.8	1805.9	2398.9	2659.2	2844.3
87.5°	448.1	364.9	257.6	230.8	297.9	381.0	466.9	847.9	1280.0	1561.7	1679.8
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)